



WOODBURY COUNTY ZONING COMMISSION SPECIAL MEETING – TOWNHALL – SLOAN, IA

**Sloan Community Hall
423 Evans Street, Sloan, IA 51055
Monday, August 31 at 7:00 PM**

DATA CENTER PERMITTING UNINCORPORATED AREAS OF WOODBURY COUNTY

You are hereby notified that a meeting of the Woodbury County Zoning Commission will be held on **Monday, August 31, 2026 at 7:00 PM** at the **Sloan Community Hall at 423 Evans, Street, Sloan, IA 51055** for the purpose of taking official action on the agenda items shown hereinafter and for such other business that may properly come before the Commission. In particular, the Zoning Commission is reviewing the potential permitting of data centers in preparation of a recommendation to the Board of Supervisors on ways to facilitate the permitting process through a zoning ordinance amendment or other ordinance. Public input is sought on potential requirements, regulations, zoning district such as General Industrial (GI), and permitting methods such as conditional use permit or similar process.

AGENDA

1	CALL TO ORDER
2	ROLL CALL
3	PUBLIC COMMENT ON MATTERS NOT ON THE AGENDA (INFORMATION ITEM)
4	APPROVAL OF MINUTES FROM PREVIOUS MEETING(S) (ACTION ITEM)
5	ITEM(S) OF BUSINESS (ACTION ITEMS)
»	PUBLIC TOWN HALL MEETING TO SEEK INPUT FROM THE PUBLIC ABOUT THE PERMITTING PROCESS OF DATA CENTERS IN UNINCORPORATED WOODBURY COUNTY. The Woodbury County Zoning Commission will hold a public town hall meeting (hearing/listening session) to gather citizen input on potential amendments to the Woodbury County Zoning Ordinance regarding data center facilities in the unincorporated areas of Woodbury County, Iowa. The Zoning Commission is studying data centers with the mission to prepare a recommendation to the Board of Supervisors on how to facilitate the permitting application process in the Woodbury County Zoning Ordinance as a zoning ordinance text amendment or another ordinance. The Commission will be seeking input on potential requirements and regulations, as well as zoning districts

	(locations) such as the General Industrial (GI) Zoning District, and the permitting application process itself, such as a conditional use permit or a comparable mechanism. IMPORTANT JURISDICTIONAL NOTICE: These town hall meetings and proposed zoning regulations apply ONLY to unincorporated areas under Woodbury County zoning jurisdiction. Incorporated cities and towns within Woodbury County regulate their own zoning ordinances and corporate boundaries independently. All interested residents, property owners, and stakeholders are strongly encouraged to attend and share their perspectives. You may also forward your written comments and concerns by mail or email to: Woodbury County Planning and Zoning, 620 Douglas Street, Sixth Floor, Sioux City, IA 51101; Emails should be sent to Dan Priestley at: dpriestley@woodburycountyiowa.gov. For further information, please contact Dan Priestley, Zoning Coordinator, Woodbury County Planning and Zoning at (712) 279-6609 or visit the county website at www.woodburycountyiowa.gov. Additional town hall meetings are scheduled for Monday, September 21, 2026 at 7:00 PM at the Merville Community Center, 815 Main Street, Merville, IA 51039, and Monday, November 9, 2026 at 7:00 PM at the Salix Community Center, 317 Tipton Street, Salix, IA 51052. Additional meetings will be scheduled in other Woodbury County communities as needed.
6	PUBLIC COMMENT ON MATTERS NOT ON THE AGENDA (INFORMATION ITEM)
7	STAFF UPDATE (INFORMATION ITEM)
8	COMMISSIONER COMMENT OR INQUIRY (INFORMATION ITEM)
9	ADJOURN (ACTION ITEM)

Subject to Additions/Deletions

WOODBURY COUNTY ZONING COMMISSION



DATA CENTER TOWN HALL MEETINGS

Public input sought



The Planning and Zoning Commission for the unincorporated area of Woodbury County is reviewing data centers and will recommend to the Board of Supervisors ways to facilitate the permitting application process through a zoning ordinance amendment or other ordinance.



Public input is sought on potential requirements, regulations, zoning districts such as General Industrial (GI), and permitting methods such as a conditional use permit or similar process.

SLOAN



Mon., Aug. 31, 2026



7:00 PM



Sloan Community Hall



423 Evans St, Sloan

MOVILLE



Mon., Sep. 21, 2026



7:00 PM



Moville Community Center



815 Main St, Moville

SALIX



Mon., Nov. 9, 2026



7:00 PM



Salix Community Center



317 Tipton St, Salix

More town halls to be added as needed.



CAN'T ATTEND?

dpriestley@woodburycounty.iowa.gov



or or mail: **Planning & Zoning**

620 Douglas St, 6th Floor

Sioux City, IA 51101 / 712.279.6609



Woodbury County Zoning Commission Meeting Minutes

Date: July 27, 2026

Time: 5:00 PM

Location: Board of Supervisors' Meeting Room, Basement, Woodbury County Courthouse, 620 Douglas Street, Sioux City, IA

MEETING AUDIO:

For specific content of this meeting, refer to the recorded video on the Woodbury County Zoning Commission "Committee Page" on the Woodbury County website:

- County Website Link:
 - o https://www.woodburycountyiowa.gov/committees/zoning_commission/
- YouTube Direct Link:
 - o <https://www.youtube.com/watch?v=Nca2OiPjk9o>

Attendees

- **Commissioners Present:** Chris Zellmer Zant – Chair (Remote), Tom Bride – Vice Chair (Acting Chair), Jeff Hanson, Corey Meister, Steve Corey (Remote)
- **Staff Present:** Dan Priestley – Zoning Coordinator, Dawn Norton – Senior Clerk
- **Supervisor(s) Present:** Kent Carper
- **Public Attendees:** Al Fagan (surveyor), Jason Meihost (Croell, Inc.)

Call to Order

The Woodbury County Zoning Commission meeting was called to order by Vice Chair Tom Bride at approximately 5:00 PM on July 27, 2026. The Chair noted that the meeting would be audio taped, and minutes prepared for all parties. Attendees were asked to turn off cell phones or set them to vibrate and to complete the attendance sheet. The Chair reviewed the Commission's procedures for the meeting, including handling of agenda items, public hearings, staff reports, applicant presentations, public comments (requiring speakers to state name and address at the microphone, avoid repetitious comments, and remain respectful), closing statements, closing of hearings by motion and vote, deliberation, and disclosure of any ex parte communications prior to deliberation.

Roll Call

Chair Tom Bride conducted a roll call. Commissioners Jeff Hanson, Corey Meister, and Tom Bride were present in person. Commissioners Chris Zellmer Zant and Steve Corey were present remotely (via telephone/Microsoft Teams).

Public Comment on Matters Not on the Agenda

No public comments were received on matters not listed on the agenda, either in person or via phone.

Approval of Previous Meeting Minutes

The Commission reviewed the minutes from the previous meeting on June 22, 2026.

- Commissioner Chris Zellmer Zant made a motion to approve the minutes. The motion was seconded by Commissioner Jeff Hanson. The vote was taken, with all in favor saying "aye". No one opposed it. The motion passed with a vote of 5-0 (5 ayes, 0 nays).

PUBLIC HEARING (ACTION ITEM): PROPOSED MINOR SUBDIVISION (Parcel #894227300022) – TO BE KNOWN AS KNAACK ADDITION

Zoning Coordinator Daniel Priestley presented the staff report. Scott A. Knaack, Trustee of the Cheryl Knaack Patrick Irrevocable Trust (with Brad Knaack as contact), submitted an application for a two-lot minor subdivision to be named the Knaack Addition. The applicants seek to divide approximately 13.80 acres (11.84 acres excluding county right-of-way) from Parcel #894227300022, located in the Southwest Quarter (SW ¼) of Section 27, Township 89 North, Range 42 West of the 5th Principal Meridian (Union

Township). The property is located within the Agricultural Preservation (AP) Zoning District and is in an area of minimal flood hazard. The property is located along Osceola Avenue and 150th Street east of Correctionville. The proposal was properly noticed. Neighbors within 1,000 feet and appropriate stakeholders were notified. The County Engineer reviewed the plat and found it conforms to closure requirements. Staff recommended approval.

The surveyor, Al Fagan, was present representing the applicant. No members of the public spoke regarding the application. No questions were raised by the Commission.

- **Motion to close the public hearing:** Jeff Hanson.
- **Second:** Corey Meister
- **Result:** All in favor said "aye". Motion carried (5-0).
- **Motion:** A motion was made to recommend approval of the two-lot minor subdivision as presented and known as the Knaack Addition by Jeff Hanson.
- **Second:** The motion was seconded by Corey Meister.
- **Vote:** All those in favor said "aye". No one opposed. The motion carried (5-0).

PUBLIC HEARING (ACTION ITEM): PROPOSED MINOR SUBDIVISION (Parcel #864632400010) – TO BE KNOWN AS TWISTED TIMBER ACRES ADDITION

Zoning Coordinator Daniel Priestley presented the staff report. Jason Silbernagel and Clara J. Silbernagel submitted an application for a two-lot minor subdivision to be named the Twisted Timber Acres Addition. The applicants seek to divide approximately 6.32 acres (5.81 acres net excluding county right-of-way) from Parcel #864632400010, located in the Southeast Quarter of the Southeast Quarter of Section 32, Township 86 North, Range 46 West of the 5th Principal Meridian (Sloan Township). The property is located within the Agricultural Preservation (AP) Zoning District and is not in the floodplain. The property is located along Dillon Avenue in rural Sloan Township. The proposal was properly noticed. Neighbors within 1,000 feet and stakeholders were notified. The County Engineer reviewed the plat and found it conforms with closure requirements. Staff recommended approval as a basic split that does not require a rezone.

No members of the public spoke regarding the application. No questions were raised by the Commission.

- **Motion to close the public hearing:** Corey Meister
- **Second:** Jeff Hanson
- **Result:** All in favor said "aye". Motion carried (5-0).
- **Motion:** A motion was made to recommend approval of the two-lot minor subdivision known as Twisted Timber Acres Addition by Corey Meister
- **Second:** Steve Corey seconded the motion.
- **Vote:** All those in favor said "aye". No one opposed. The motion carried (5-0).

REVIEW OF CONDITIONAL USE PERMIT APPLICATION (Parcel #894435100005) (ACTION ITEM)

Zoning Coordinator Daniel Priestley presented the staff report on the conditional use permit application submitted by Croell, Inc. (Paving Division), on behalf of the property owner Countryman James D. Revocable Trust. The application requests approval to establish and operate a temporary portable concrete batch plant to support the Iowa DOT Highway 20 Reconstruction Project. All equipment will be removed and the site restored to agricultural use upon completion of the project. The affected property consists of Parcel #894435100005, approximately 36.30 acres, located at 1536 Ida Avenue, Merville, Iowa, in the Agricultural Preservation (AP) Zoning District, Arlington Township. The property is located north of Highway 20 and east of Ida Avenue. Staff recommended approval, noting coordination with the County Engineer's office regarding gravel right-of-way maintenance and dust control.

Jason Meihost, representing Croell Incorporated, spoke in favor of the application, stating the location is safe with minimal impact on the traveling public due to existing lane closures associated with the construction project.

No questions were raised by the Commission. No other public comments were received.

- **Motion:** A motion was made to recommend to the Board of Adjustment the approval of the conditional use permit as submitted by Jeff Hanson.
- **Second:** The motion was seconded by Commissioner Steve Corey.
- **Vote:** All those in favor said "aye". No one opposed. The motion carried (5-0).

Priestley noted that the Board of Adjustment will meet on August 3, 2026, at 5:00 PM for the official public hearing on this matter.

OFFICIAL POSTING OF ZONING COMMISSION AGENDAS LOCATION(S) (ACTION ITEM)

Zoning Coordinator Daniel Priestley explained that following further discussion with the Auditor's staff and the County Attorney's office regarding the requirement that postings be "visible at all times," staff recommended designating the doors with glass windows at the former Douglas Street public entrance (current emergency exit) as an official posting location in addition to the existing bulletin board inside the north entrance of the Woodbury County Courthouse, and reaffirming woodburycountyiowa.gov as the primary internet presence, in compliance with House File 2490.

- Motion: Commissioner Chris Zellmer Zant moved to approve the designation of the doors with glass windows at the former Douglas Street public entrance/current emergency exit as an official posting location for Zoning Commission agendas and notices, to continue designating the bulletin board inside the north entrance of the Woodbury County Courthouse for that same purpose, and to reaffirm woodburycountyiowa.gov as the county's primary internet presence for such postings, in compliance with House File 2490.
- Second: Commissioner Steve Corey seconded the motion.
- Vote: All those in favor said "aye". No one opposed. The motion carried (5-0).

RECEIPT OF DIRECTION FROM THE WOODBURY COUNTY BOARD OF SUPERVISORS REGARDING INDUSTRIAL DATA CENTERS (ACTION ITEM)

Zoning Coordinator Daniel Priestley requested a motion to receive the direction from the Board of Supervisors to schedule discussion and analysis of industrial data centers.

- Motion: A motion was made to receive the direction from the Board of Supervisors by Jeff Hanson.
- Second: The motion was seconded by Steve Corey.
- Vote: All those in favor said "aye". No one opposed. The motion carried (5-0). (See appendix).

Priestley provided background on the Board of Supervisors' directive for the Zoning Commission to develop a clearer permitting framework for industrial data centers, similar to the prior solar energy process. The Board has placed a moratorium on such applications to allow the Commission time for review. The expectation is to hold public input sessions, preferably in a town-hall format in various communities, to collect information from the public regarding unincorporated areas of Woodbury County.

After discussion, the Commission reached consensus on the following:

- Meeting time: 7:00 PM
- Preferred days: Mondays (avoiding Board of Supervisors Tuesdays and Board of Adjustment nights)
- Initial schedule of three town-hall meetings:

- August 31, 2026 – Sloan
- September 21, 2026 – Menville
- November 9, 2026 – Salix

All meetings at 7:00 PM. Locations are subject to confirmation of available facilities. Additional meetings (including possible eastern-county locations) may be scheduled based on attendance and feedback. Regular Zoning Commission meetings will continue at the Courthouse and will include work-session/discussion items related to data centers. Public comment opportunities (including electronic) will remain open throughout the process. The Commission emphasized that these sessions concern unincorporated Woodbury County policy only and are not intended to address incorporated city issues (e.g., Salix).

Public Comment on Matters Not on the Agenda

Supervisor Carper offered comments regarding potential public sensitivity in the Salix area and the need for clear messaging that the town halls address only the county ordinance for unincorporated areas. He also inquired about potential conflicts of interest. Commissioner Steve Corey noted that his acreage is approximately two miles from a potential data-center area and that he would remain neutral while participating. Supervisors Carper further advised that he will be undergoing surgery on August 12, 2026, and expects to be unavailable until late October.

Staff Update

Dan Priestley noted that the primary focus remains the data-center process and that staff will continue outreach, prepare supporting materials, and keep the Commission informed of any developments via email as needed.

Commissioner Comment or Inquiry

No Commissioners offered additional comments or inquiries.

Adjournment

Commissioner Corey Meister moved to adjourn the meeting, seconded by Commissioner Steve Corey. The motion passed unanimously with all Commissioners present voting "aye." (5-0) The meeting adjourned at approximately 6:03 PM.

Appendix

See attached items received by the Zoning Commission.

WOODBURY COUNTY AGENDA ITEM(S) REQUEST FORM

Date: 6/17/2026 Weekly Agenda Date: 6/23/2026

Elected Official / Department Head / Citizen: Mark Nelson

Wording for Agenda Item:

Direction for the Woodbury County Zoning Commission to review the Zoning Ordinance's permitting procedures for industrial data centers and to prepare and present a recommendation with proposed changes to the Board of Supervisors. Through their review, the Commission is authorized to hold necessary public input sessions as part of this process.

Action Required:

Approve Ordinance ☐

Approve Resolution ☐

Approve Motion ☒

Hold Public Hearing ☐

Informational ☐

Attachments ☐

Set Time:

Reviewed by County Attorney's Office: ☐

Background & Financial Impact:

Following concerns raised by staff and the public at the June 16, 2026 Board of Supervisors meeting regarding industrial data center development, the Board directs the Zoning Commission to review the Woodbury County Zoning Ordinance. The current conditional use permit procedures lack sufficient specificity for data center projects. The Commission shall evaluate the permitting process for large-scale industrial data centers using its standard review procedures and public meetings to solicit community input, and shall recommend ordinance amendments to establish clearer standards, approval criteria, and procedures.

Recommendation:

Direct for the Woodbury County Zoning Commission to review the Zoning Ordinance's permitting procedures for industrial data centers and to prepare and present a recommendation

7/23/26

99

with proposed changes to the Board of Supervisors. Through their review, the Commission is authorized to hold necessary public input sessions as part of this process.

Approved by Board of Supervisors on March 17, 2026

*Preliminary Report – Data Center Permitting in the Unincorporated Areas of Woodbury County, Iowa

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Disclaimer:

*This is an evolving working document and is subject to regular changes throughout the review process.

Preliminary Report

This preliminary report has been prepared prior to the planned Woodbury County Zoning Commission townhalls about data centers for the purpose of bringing clarity to the intricate nature of the data center debate. The Woodbury County Zoning Ordinance contains a broad framework that appears purposely equipped to empower county stakeholders with the research tools necessary to explore options on whether a proposed use is compatible or not with the plans and expectations of the public.

The foundation of any land use debate should initially rest with the **Woodbury County Comprehensive Plan 2040**. The Code of Iowa §335.5 specially states:

1. The regulations shall be made in accordance with a comprehensive plan and designed to preserve the availability of agricultural land; to consider the protection of soil from wind and water erosion; to encourage efficient urban development patterns; to lessen congestion in the street or highway; to secure safety from fire, flood, panic, and other dangers; to protect health and the general welfare; to provide adequate light and air; to prevent the overcrowding of land; to avoid undue concentration of population; to promote the conservation of energy resources; to promote reasonable access to solar energy; and to facilitate the adequate provision of transportation, water, sewerage, schools, parks, and other public requirements. However, provisions of this section relating to the objectives of energy conservation and access to solar energy shall not be construed as voiding any zoning regulation existing on July 1, 1981, or to require zoning in a county that did not have zoning prior to July 1, 1981.
2. The regulations shall be made with reasonable consideration, among other things, as to the character of the area of the district and the peculiar suitability of such area for particular uses, and with a view to conserving the value of buildings and encouraging the most appropriate use of land throughout such county.
3. The regulations and comprehensive plan shall be made with consideration of the smart planning principles under section 18B.1 and may include the information specified in section 18B.2, subsection 2.
4.
 - a. A comprehensive plan recommended for adoption by the zoning commission established under section 335.8 may be adopted by the board of supervisors. The board of supervisors may amend a proposed comprehensive plan prior to adoption. The board of supervisors shall publish notice of the meeting at which the comprehensive plan will be considered for adoption. The notice shall be published as provided in section 331.305.
 - b. Following its adoption, copies of the comprehensive plan shall be sent or made available to neighboring counties, cities within the county, the council of governments or regional planning commission where the county is located, and public libraries within the county.

c. Following its adoption, a comprehensive plan may be amended by the board of supervisors at any time.

The purpose of a comprehensive plan is to provide structure and stability for the local community. Zoning is not designed to be random or political; it must be tied to a purpose that was initially agreed upon by the public. The broad enumerations of protecting land, reducing congestion, promoting health and safety, preserving neighborhood character, conserving energy, and ensuring infrastructure like roads, water, sewer, schools, and parks convey the solemn duty that each community can decide themselves on how they wish to prioritize their long-term futures. Additionally, the comprehensive plan is without a doubt, a significant legal and policy framework that must be used as the justification for any proposed zoning change that meets public needs.

Another way to describe the comprehensive plan is as a road map or an evaluative document where a community can directly question the feasibility of a proposed zoning change. The plan has the following built in mechanisms:

- shows whether a proposal fits with the county's priorities and where it should go;
- demonstrates how a proposed change better serves the area's character and suitability for land use;
- connects the proposal to public benefits like farmland preservation, housing, transportation, or environmental protection;
- brings the issue before the Board of Supervisors who have the power to adopt or amend the comprehensive plan.

In short, the comprehensive plan is the point at which community values are translated into public policy. That policy process is continuous and cyclical: problem identification, agenda setting, policy formulation, adoption, implementation, evaluation, and eventual maintenance, succession, or termination. Effective policy requires ongoing participation by the public and all relevant stakeholders. The moral of the story is that community efforts to change zoning are at their strongest when they are framed as plan-based and purposed-based. If residents can show that proposed or existing zoning supports or undermines the jurisdiction's own planning goals, they have a reasonable case for change.

Where We Are Now

A public policy issue has been identified: data centers. Agenda setting has already occurred with the implementation of a moratorium, and the next step is to gather input to inform policy development. To create a feasible policy, we must consult public stakeholders, review the comprehensive plan and the county's long-term priorities, examine relevant literature, and assess existing ordinances and mapping. This process will help us develop a policy guided by a clear mission—one that establishes broad standards while remaining consistent with community values, expectations, and future growth.

Criteria Themes

A potential ordinance on data centers should be: clear; transparent; enforceable; impact mitigation; infrastructure ready; include community protections; and align with local conditions and long-term planning. Or more simply described – be “balanced.”

Criteria of Conditional Use

The Woodbury County Zoning Ordinance’s criteria of a **conditional use requirements (Section 2.02.9 F)** are a foundational starting point for formulating a new policy. The parameters are broad by design as they inevitably enable decision-makers to effectively perform a SWOT Analysis for the evaluation of the strengths, weaknesses, opportunities, and threats of land use proposals.

Standards...

- The conditional use requested is authorized as a conditional use in the zoning district within which the property is located and that any specific conditions or standards described as part of that authorization have been or will be satisfied.
- The proposed use and development will be in harmony with the general purpose and intent of this ordinance and the goals, objectives and standards of the general plan.
- The proposed use and development will not have a substantial or undue adverse effect upon adjacent property, the character of the neighborhood, traffic conditions, parking, utility facilities, and other factors affecting the public health, safety and general welfare.
- The proposed use and development will be located, designed, constructed and operated in such a manner that it will be compatible with the immediate neighborhood and will not interfere with the orderly use, development and improvement of surrounding property.
- Essential public facilities and services will adequately serve the proposed use or development.
- The proposed use or development will not result in unnecessary adverse effects upon any significant natural, scenic or historic features of the subject property or adjacent properties.

Other Considerations...

- The proposed use or development, at the particular location is necessary or desirable to provide a service or facility that is in the public interest or will contribute to the general welfare of the neighborhood or community.
- All possible efforts, including building and site design, landscaping and screening have been undertaken to minimize any adverse effects of the proposed use or development.

These criteria foster a solid policy framework because they require both a legal and practical fit before a proposed can be approved. The standards mean the proposal must already be allowed in a zoning district, must align with the community's comprehensive plan, and must not create significant harm to neighbors, traffic, utilities, or public health and safety. They also require the use to fit the surrounding area in design and operation, be adequately served by public facilities, and avoid damage to import natural, scenic, or historic features. The "other considerations" add flexibility by asking whether the use serves a real public need and whether the applicant has taken reasonable steps to reduce impacts through design, landscaping, and screening.

The reverse engineering of the conditional use criteria in conjunction with solid public input and respect for the comprehensive plan, consideration of other community ordinances, and a look at relevant literature can go a long way in the formulation of a balanced policy.

Public Comments (Summary)

The following is a summary of the public comments regarding views on data center zoning and permitting in Woodbury County, Iowa.

Summary of Key Themes Across Comments

1. **Resource Depletion:** The most frequent concern is the strain on **water** (well depletion, contamination, cooling needs) and **electricity** (cost increases, reliability/blackouts).
2. **Rural Character:** Residents fear the loss of peace, quiet, and the agricultural landscape due to noise (generators), light pollution, and industrial infrastructure.
3. **Lack of Trust:** There is skepticism toward data center lobbyists and developers, with residents feeling that assurances of "minimal impact" are misleading.
4. **Regulatory Gaps:** Commenters argue that current zoning is insufficient and demand a strict **Conditional Use Permit (CUP)** process with heavy restrictions on location, setbacks, and ongoing monitoring.
5. **Jurisdictional Clarity:** Multiple emails highlight the distinction that these rules apply only to **unincorporated areas**, though cities like Bronson are monitoring the situation.

See the appendix for the comments received (as of the preparation of this document). Additional comments will be added in subsequent editions or amendments as this is a working document throughout the review process.

Woodbury County Comprehensive Plan 2040 – Public Perception of Woodbury County’s Future

Public Priorities for the Next 20 Years

In the Woodbury County Comprehensive Plan 2024 in the public survey, residents were asked to identify the most important topics for the next 20 years. The results, summarized across multiple chapters, are as follows:

- **Economic Development (business expansion, retention, recruitment): 72 responses** (p. 52, Fig. 3.11)
- **Public Utilities & Infrastructure (water, wastewater, broadband, electric, renewable energy): 61 responses** (p. 81, Fig. 5.6)
- **Agriculture (agriculture economy, emerging technologies, farmland management): 61 responses** (p. 80, Fig. 5.7)
- **Housing (affordability, inventory, variety): 58 responses** (p. 35, Fig. 2.13)
- **Future Land Use (how land use might change): 58 responses** (p. 67, Fig. 4.7)

These rankings reflect a community seeking **balanced, managed growth** that creates jobs (especially in rural areas), improves infrastructure (notably broadband), maintains affordability, and protects core values like rural character, farmland, and quality of life (Woodbury County Comprehensive Plan).

Viewpoint on Commercial, Industrial, and Residential Development

Public input identifies several key weaknesses driving the need for economic development:

- **Lack of employment opportunities outside incorporated cities: 165 responses** (p. 51, Fig. 3.10)
- **Lack of reliable broadband and/or cellular service: 163 responses** (p. 51, Fig. 3.10)
- **Limited services in rural areas: 157 responses** (p. 51, Fig. 3.10)
- **Attracting or retaining a qualified workforce: 134 responses** (p. 51, Fig. 3.10)

Conversely, the **agricultural economy** is the most frequently cited asset, selected by **44%** of respondents (p. 49, Fig. 3.9). Importantly, **87%** of respondents agreed that preserving existing agricultural land should be a planning priority (p. 123, Fig. 7.14).

Where Growth Should Occur

The plan envisions a **concentrated, corridor-based approach** to development:

- **Commercial and industrial activity** should be primarily located **within or near Sioux City**, the regional economic hub, and in **designated industrial areas** (p. 39, Fig. 3.1).
- Two **certified industrial sites** south of Sergeant Bluff are highlighted for development:
 - **Southbridge 27 Flags Industrial Site** (117 acres) for heavy industry.
 - **Sergeant Bluff Industrial Park** (roughly 117 acres) for light industrial manufacturing, logistics, warehouse distribution, food production, and biotech (p. 49).
- These sites offer **multi-modal access** via I-29, U.S. Highways 20/60/75, Union Pacific rail, proximity to Sioux Gateway Airport, and potential Missouri River barge access via the Big Soo Terminal (p. 49).
- A **new I-29 interchange** (Southbridge, planned for ~2027 near 235th Street) is expected to catalyze additional development in this corridor (p. 49).
- The plan explicitly discourages “**leap-frog**” or scattered development into rural/agricultural areas. Instead, it advocates for **compact, efficient growth patterns**, directing non-agricultural uses into areas with existing infrastructure and limiting interstate-adjacent development to interchanges or within city limits to preserve farmland and scenic Loess Hills views (p. 126, Goal LU3.2).

Residential Development

Public dissatisfaction with housing is most acute regarding **affordability**, followed by **availability, variety of types**, and **condition/maintenance** (p. 33, Fig. 2.10). Notably:

- **Unincorporated/rural residents** report higher overall satisfaction with housing than urban residents.
- **Small rural towns and Sioux City residents** express stronger concerns, particularly around affordability and availability (p. 33).
- More than **53% of housing units were built prior to 1960**, and roughly **76% prior to 1980** (p. 25, Fig. 2.2). This older stock is valued for its character but presents maintenance challenges.
- The plan supports **diverse, affordable, and workforce housing options**, including **accessory dwelling units (ADUs)** and **upper-story units above downtown storefronts** in small towns (p. 36, Goals H2.1, H2.4).
- There is a clear preference for **infill development and rehabilitation** over new greenfield development (p. 36, Goal H3.3).
- Housing issues were ranked as a **top-5 priority** for the next 20 years (p. 35, Fig. 2.13).

Regulation and Balance: Land Use and Zoning

Public opinion on land use and zoning policies is divided:

- **27.9%** were undecided.
- **27.7%** support **less restrictive/flexible** policies.
- **24.8%** believe policies should be **more restrictive** (with attention to where and how land develops).
- **19.6%** believe policies should **not change** (p. 125, Fig. 7.16).

In response, the plan adopts a **balanced approach**: protecting public interests and safety while allowing flexibility for private property uses. It emphasizes **buffers between industrial and residential uses, preservation of agricultural land, and compact growth patterns** (p. 126, Goal LU8).

Wind, Solar, and Emerging Technologies

Public Utilities & Infrastructure, including renewable energy, ranked **second** in priority for the next 20 years (tied with Agriculture) (p. 81, Fig. 5.7). The plan references **Iowa Smart Planning principles** to promote clean, renewable, and efficient energy (p. 70).

Wind Energy

- **No commercial wind facilities** currently exist in Woodbury County.
- Residents have been **vocal in their opposition** to wind development, citing concerns about **aesthetic impacts on the rural landscape and Loess Hills, potential effects on wildlife, and disturbances to neighboring properties** (p. 71–72).
- The county has adopted a **commercial wind farm ordinance** with restrictions to protect residents, private property, public conservation areas, and the Loess Hills. For the creation and use of alternative and renewable energy sources, **continuously update policies that regulate renewable energy infrastructure to ensure that it does not present safety hazards and to minimize disruptions to surrounding land uses** (p. 72, 121, 127).

Renewable Energy

- Public sentiment is **more positive** toward solar energy. One survey comment specifically urged promoting “...*renewable energy especially solar which has really just started to grow*” (p. 71, Appendix comments).
- The plan supports **landowners’ individual choices** to implement renewable energy infrastructure for personal/private use (p. 127, Goal IU3.1).
- A goal is set to **plan for the creation and use of alternative and renewable energy sources**, with policies continuously updated to ensure safety and minimize disruptions to surrounding land uses (p. 127, Goal IU3.1).
- Federal and state incentives and funding are noted as key drivers for adoption (p. 71–72).

Data Centers and Battery Storage

- These are **not specifically discussed** in the plan or prominent in public input.
- If developed, it would be prudent to examine them as **industrial uses**, based on the county's nuclear energy and solar policies, directed to **designated industrial zones** with appropriate **siting, buffers, and compliance with zoning ordinances**.
- Large-scale development would need to align with the broader goals of **economic opportunity** (e.g., benefits to landowners/farmers) while balancing protections for **rural character and quality of life**.

Broader Context

- Emphasis is placed on **energy efficiency** (e.g., rebates and assessments from MidAmerican Energy and Woodbury County REC) (p. 71).
- **Electric vehicle (EV) charging infrastructure** expansion is prioritized, especially in rural areas (p. 72, 127).
- The county currently has **no major air quality crises**, but a network of **low-cost air quality monitors** is recommended for rural areas (p. 122, 127).

Land Use and Natural Resources

The county's land use is **predominantly agricultural** (79.2% of land use in 2019) (p. 111). The plan emphasizes:

- Protecting **prime agricultural soils, Loess Hills, water resources** (surface and groundwater quality), **natural habitats**, and **air quality** (p. 126).
- Promoting **compact growth, limiting sprawl**, and requiring **buffers between incompatible uses** (e.g., industrial vs. residential) (p. 126, Goal LU3.1).
- **Directing non-agricultural development** efficiently through **infrastructure expansion** (p. 126, Goal LU3.3).
- **Renewable energy infrastructure** has specific planning considerations and regulations, primarily oriented toward **protecting rural character** (p. 121, 127).

Public input shows **high value for agriculture preservation and rural character**, with **divided views** on the ideal level of zoning restrictiveness (p. 125, Fig. 7.16).

Future Land Use Map

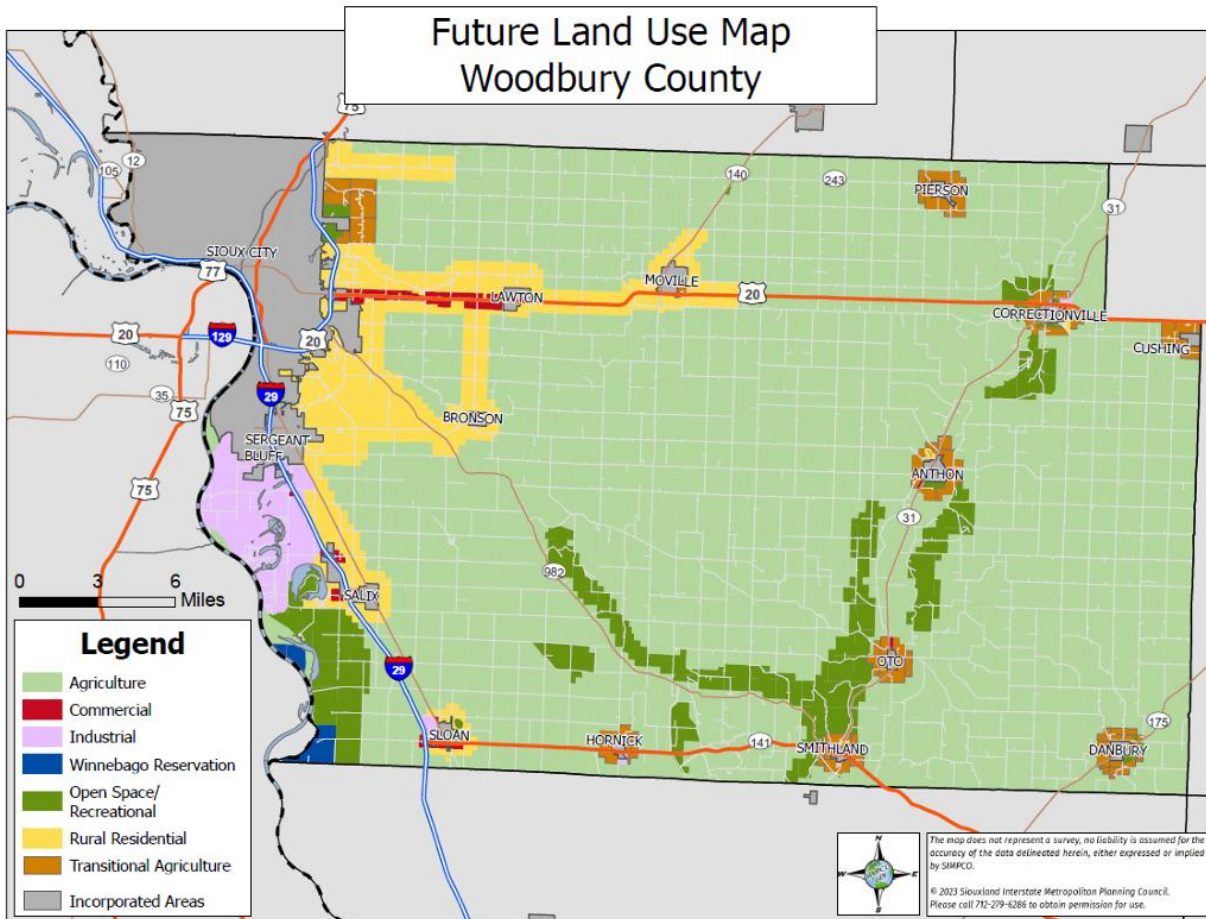


Figure 7.4 Future land use map

(Woodbury County Comprehensive Plan, *Future Land Use Map*)

Legend categories and their representation:

- **Agriculture** (light green): Covers the vast majority of the unincorporated rural county, forming continuous expanses of farmland across the central, eastern, and southern portions.
- **Commercial** (red): Appears primarily as linear corridors, most notably along Highway 20 (through Lawton) and near other transportation routes or urban edges.
- **Industrial** (light purple/pink): Concentrated in a sizable area south of Sioux City near Sergeant Bluff, adjacent to major highways and the river.
- **Winnebago Reservation** (dark blue): A distinct area in the southwest, near the Missouri River and south of Salix/Sloan.
- **Open Space/Recreational** (dark green): Scattered irregular patches and larger blocks, especially in the central-southern county (around Oto, Anthon, and

southward) and some western areas near the river; these represent parks, natural areas, and preserves.

- **Rural Residential** (yellow): Prominent east and southeast of Sioux City/Sergeant Bluff (around Bronson and extending along corridors), plus smaller clusters near other towns, indicating areas for housing outside city limits.
- **Transitional Agriculture** (brown/orange): Small pockets or fringes near several rural towns (Pierson, Anthon, Oto, Danbury, and others), serving as buffer or flexible zones between pure agriculture and residential uses.
- **Incorporated Areas** (gray): City jurisdictions (Sioux City being the largest by far).

How the map demonstrates priorities and expectations for future planning

The comprehensive plan's future land use map prioritizes the long-term protection of agriculture as the dominant land use while directing growth in a controlled, orderly manner. The overwhelming light-green agricultural base signals an expectation that farmland will remain the economic and cultural foundation, with residential density limited to avoid fragmentation of continuous workable land. Growth is channeled into and adjacent to existing incorporated areas and transportation corridors (yellow rural residential and red commercial near Sioux City, Sergeant Bluff, and Highway 20), rather than dispersed "leapfrog" development.

Industrial uses are clustered near existing infrastructure and urban edges to minimize conflicts with other uses. Open space/recreational areas are mapped for protection and potential network expansion, supporting conservation and recreation goals. Transitional agriculture provides flexibility in fringe areas without immediately converting prime farmland. The overall pattern reflects smart-growth principles: compact development near existing services, preservation of rural character, and stewardship of natural resources (Woodbury County Comprehensive Plan 2040).

Comprehensive Plan Analysis

Woodbury County residents envision a prosperous yet grounded future: one that leverages agricultural roots and strategic location for targeted growth in appropriate industrial and commercial hubs (particularly the I-29/Sergeant Bluff corridor), improves housing affordability through smart infill and rehabilitation, invests in infrastructure, and thoughtfully regulates renewables with a preference for solar over large-scale wind. This comprehensive plan translates that vision into actionable goals for balanced, resilient development through 2040, rigorously protecting rural character, farmland, natural resources, and community quality of life (Woodbury County Comprehensive Plan 2040).

These priorities establish a clear framework for locating industrial-scale nuclear, solar, and data center facilities where they fit best. By explicitly guarding residential and agricultural areas against leap-frog development, spot-zoning, and incompatible uses, the plan

dictates that future renewable energy policies must focus squarely on the General Industrial (GI) Zoning District (Woodbury County Comprehensive Plan 2040).

Bibliographic Sources

The bibliographic entries below reflect a diverse and rapidly expanding content available addressing data-center development, zoning, permitting, environmental impacts, and community governance. These sources come from legal practitioners, engineering firms, planning organizations, environmental advocates, academic institutions, and national policy groups. Together, they illustrate how data centers have shifted from a niche industrial use to a major infrastructure category requiring specialized regulatory attention. As counties confront the land-use, environmental, and infrastructure challenges posed by large-scale data-center development, these materials provide essential guidance for crafting modern, defensible, and community-responsive ordinances.

Categorized Source Groups

1. Policy Toolkits & Government-Focused Guidance

These sources provide structured policy frameworks, model ordinances, and decision-support tools tailored to local governments.

- **AI Now Institute. (n.d.). *North Star data center policy toolkit*.** <https://datacenters.ainowinstitute.org/>
Maps local and state policy tools for managing data center growth, including conditional use permits, zoning amendments, setbacks, moratoria, and community benefits agreements, with jurisdiction examples.
- **Cuyahoga County, Ohio. (2026). *Data center development: Recommendations for local communities*.** https://cuyahogacms.blob.core.windows.net/home/docs/default-source/sustainability/datacenterrecommendations.pdf?sfvrsn=7d6e5664_3
Practical guidance for local officials on identifying applications, questions for developers, and issue-area recommendations during study periods or moratoria.
- **Energy Policy and Innovation Center (EPIcenter), Georgia Institute of Technology. (n.d.). *Data Center*.** <https://epicenter.energy.gatech.edu/data-center/>
Interactive dashboard summarizing Georgia land-use ordinances across 15 topics, facility maps, moratoria tracking, and comparative regulatory resources.
- **Hubbell Environmental Law Initiative & Tippie College of Business Social Impact Community. (2026, July). *Iowa Data Center Decision Tool for Counties, Cities, Communities*. University of Iowa College of Law.** <https://heli.law.uiowa.edu/sites/heli.law.uiowa.edu/files/2026-07/Iowa-Data->

[Center-Decision-Tool-HELI-July-2026.pdf?fbclid=IwRI RTSATgzOdwZG9mAWZkaWQWUL98yz8hLnBRzWvnobfIXiZqlpktzWV4dG4DYWVtAjExAHNy dGMGYXBwX2lkCjY2Mjg1NjgzNzkAAR61IEULm7q9bPYb1rlZs9ReaCKPMKneWONXuRk_LjA027Rh9L0vIhjnZ_ddUQ_aem_8UJYABkBGLDgg-aeTLHLEw](https://www.iowadatacenter.org/Center-Decision-Tool-HELI-July-2026.pdf?fbclid=IwRI RTSATgzOdwZG9mAWZkaWQWUL98yz8hLnBRzWvnobfIXiZqlpktzWV4dG4DYWVtAjExAHNy dGMGYXBwX2lkCjY2Mjg1NjgzNzkAAR61IEULm7q9bPYb1rlZs9ReaCKPMKneWONXuRk_LjA027Rh9L0vIhjnZ_ddUQ_aem_8UJYABkBGLDgg-aeTLHLEw)

Framework of questions to help Iowa local governments evaluate data center proposals before engaging developers. Covers community considerations, planning and zoning, water and energy resources, incentives/economic development, and construction-phase issues as a neutral risk-management and conversation-starter resource.

- **Kentucky Resources Council. (n.d.). *KRC data center toolkit & frequently asked questions*.** <https://kyrc.org/datacenters-toolkit/>

Two model ordinances (with and without planning/zoning authority), FAQs, and resources for regulating siting, construction, noise, environmental effects, and infrastructure.

- **National Association of Counties. (2026, February). *NACo informational primer and county considerations: Data centers*.**

<https://www.naco.org/sites/default/files/2026-02/2026%20Data%20Center%20Primer.pdf>

Framework for counties covering impacts, zoning authority, best practices (noise limits, setbacks, agreements, decommissioning), and a readiness checklist.

- **National Association of Development Organizations. (2026). *Data center planning resources for EDDs & RDOs*.** <https://www.nado.org/data-center-planning-resources-for-edds-rdos/>

Curated reports, model ordinances, and analyses for regional organizations assisting local governments on planning, economic impacts, and regulatory tools.

- **Pennsylvania Department of Community & Economic Development. (2026). *Pennsylvania data center planning toolkit*.** <https://dced.pa.gov/business-assistance/data-center-resources/planning-toolkit/>

Guidance for municipalities on evaluating proposals from inquiry through zoning, permitting, infrastructure capacity, fiscal impacts, and community engagement.

- **Southern Environmental Law Center. (2026). *Getting it right: Local approaches to data center development*.** <https://www.selc.org/resource/getting-it-right-local-approaches-to-data-center-development/>

Examines zoning strategies (special/conditional use permits, size thresholds), development requirements, Virginia examples, and community engagement tips.

- **U.S. Environmental Protection Agency. (n.d.). *Clean Air Act resources for data centers*.** <https://www.epa.gov/stationary-sources-air-pollution/clean-air-act-resources-data-centers>

Centralizes Clean Air Act regulations, guidance, modeling tools, and permitting information relevant to data centers and backup generation.

- **Urban Land Institute. (2024). *Local guidelines for data center development*.**
<https://knowledge.uli.org/reports/research-reports/2024/local-guidelines-for-data-center-development>
Roadmap covering siting, design, infrastructure coordination, regulatory options (including model zoning guidelines), and case studies for local officials.
- **York County Planning Commission. (2025, August; revised April 2026). *Data center model ordinance*.**
<https://www.ycpc.org/DocumentCenter/View/5537/Data-Centers-Model-Ordinance---2026-Update-PDF>
Comprehensive model language on definitions, setbacks, noise/vibration standards, buffers, impact analysis, emergency coordination, and decommissioning bonds.

These resources offer ordinance templates, policy rationales, and structured decision tools that directly support county-level regulatory drafting.

2. Legal Analysis, Zoning Interpretation & Permitting Strategy

Law firms and legal scholars provide interpretations of zoning authority, entitlement processes, due diligence, and litigation risks.

- **Ballard Spahr LLP (McClure, M. N., Parks, J. S., Johnson, B. F., Clark, A. B., & De Simone, D. J.). (2025, November 17). *Data centers, local zoning, and land development: How to protect your project from costly delays*.**
<https://www.ballardspahr.com/insights/alerts-and-articles/2025/11/data-centers-local-zoning-and-land-development-how-to-protect-your-project-from-costly-delays>
Stresses proactive zoning due diligence, final unappealable approvals, proper notice procedures, multi-phase planning, and early land-use counsel to avoid delays from outdated codes and opposition.
- **Calabrese, A., & Promrat, K. (2026, June 19). *Data center development: Key zoning and entitlement considerations*. DLA Piper.**
<https://www.dlapiper.com/insights/publications/2026/06/data-center-development>
Analyzes public notice/hearing risks, appeal timelines, standing rules, vested rights, and moratoria; recommends early diligence during site selection and schedule buffers for litigation.
- **Crowell & Moring LLP. (2026, June 23). *EPA hands over AI data center regulation to states and communities to develop best practices*.**
<https://www.crowell.com/en/insights/client-alerts/epa-hands-over-ai-data-center-regulation-to-states-and-communities-to-develop-best-practices>
Notes EPA's decision against nationwide standards shifts responsibility to

states/localities, increasing inconsistency and citizen-suit risks under existing environmental laws.

- **Cuddy & Feder LLP. (2015, December 14; content current as of 2026). *Due diligence and zoning for data centers*.** <https://www.cuddyfeder.com/due-diligence-and-zoning-for-data-centers/>
Advises mapping uses to zoning definitions, understanding tiered review by size, addressing public hearings, and recognizing zoning proficiency as critical amid decentralization.
- **FitzPatrick Lentz & Bub (Morgan, S. J.). (2025, December 15). *Key data center zoning considerations for developers*.** <https://www.fiblawn.com/key-data-center-zoning-considerations-for-developers/>
Explores evolving zoning in secondary markets (e.g., Pennsylvania’s Lehigh Valley), emphasizing clear definitions, infrastructure access, and land-use compatibility.
- **Haines, M. S., Wilhelm, J. G., & Barnes, J. M. (2026, March 13). *Navigating permitting challenges: A practical guide for data center development in Pennsylvania*.** Reed Smith. <https://www.reedsmith.com/articles/navigating-permitting-challenges-a-practical-guide-for-data-center-development-in-pennsylvania/>
Highlights advocacy scrutiny, Environmental Rights Amendment challenges, standing requirements, and the need for strong documentation and stakeholder engagement in Pennsylvania.
- **K&L Gates. (n.d./2026 context). *Your questions answered: What data centers and energy-intensive infrastructure developers and operators need to know*.** <https://www.klgates.com/Your-Questions-Answered-What-Data-Centers-and-Energy-Intensive-Infrastructure-Developers-and-Operators-Need-to-Know>
Q&A covering permitting/zoning, real estate, financing, tax/incentives, and environmental/ESG issues across the project lifecycle.
- **Mayo, R. L. (2025, October). *Data center regulation in the United States*.** Sheila and Robert Challey Institute for Global Innovation and Growth, North Dakota State University. <https://www.ndsu.edu/challey-institute/>
Analyzes fragmented federal/state/local regulation of AI-driven facilities and proposes best practices for responsible expansion amid resource intensity and overlapping requirements.

These sources discuss legal risks, entitlement pathways, and regulatory obligations critical for drafting enforceable, defensible ordinances.

3. Engineering, Design, and Technical Development Guidance

Engineering firms and technical consultants explain site design, infrastructure requirements, lifecycle permitting, and compliance tools.

- **Bohler. (2023, October). *Navigating the data center design and approval process* (by John Wright, PE).** <https://bohlerengineering.com/blog/insight/navigating-the-data-center-design-and-approval-process/>
Covers land development review (site plans, traffic, utilities, stormwater), typical 6–18 month timelines, common variances, and the value of early staff engagement when codes lack data center provisions.
- **Federal Energy Management Program, U.S. Department of Energy. (2024, July 26). *Best practices guide for energy-efficient data center design*.** <https://www.energy.gov/cmei/femp/articles/best-practices-guide-energy-efficient-data-center-design>
Outlines IT utilization, air management, cooling/electrical optimizations, heat recovery, and metrics/benchmarking for energy and water efficiency.
- **StruxHub. (n.d.). *Data center construction compliance: Top tools for streamlining permits and compliance in data center construction*.** <https://struxhub.com/blog/data-center-construction-compliance-top-tools-for-streamlining-permits-and-compliance-in-data-center-construction/>
Surveys digital tools for permit/inspection management, environmental/energy compliance, safety systems, zoning navigation, and real-time monitoring.
- **SWCA. (n.d.). *From dirt to data: The full lifecycle playbook for data center permitting*.** <https://www.swca.com/news/insights/from-dirt-to-data-the-full-lifecycle-playbook-for-data-center-permitting/>
Phase-by-phase strategies from site selection through operations, focusing on risk identification and resilient permitting pathways.
- **Trinity Consultants. (2025, June 23). *Powering the next generation of data centers: Navigating due diligence and air permitting for data center development*.** <https://trinityconsultants.com/resources/powering-the-next-generation-of-data-centers-navigating-due-diligence-and-air-permitting-for-data-center-dev>
Addresses environmental due diligence and air permitting pathways for large-scale facilities with significant power and emissions profiles.

These sources help counties understand the physical and technical realities of data-center development such as power demand, cooling systems, noise, site layout, and construction sequencing.

4. Environmental & Community Impact Advocacy

Environmental organizations highlight community risks, ecological impacts, and strategies for responsible siting.

- **Community & Environmental Defense Services (CEDS). (n.d.). *datacenter*.** <https://ceds.org/>
Resource for communities seeking support on issue identification, legal strategies, and advocacy regarding land use, environmental, and quality-of-life impacts.
- **MaxLife Commercial. (2026, June). *Data centers: Community impact & permitting guide*.** <https://maxlifedevelopment.com/blog/data-center-community-impact-permitting-guide/>
Details hyperscale impacts (power demand, jobs, taxes) and a step-by-step permitting roadmap from site selection to occupancy, with typical timelines.
- **Penn State Extension. (2026, April 2; updated). *Data centers: A guide to common questions*.** <https://extension.psu.edu/data-centers-a-guide-to-common-questions>
Neutral checklist of fact-based questions on power, water, infrastructure, land use, economics, and resilience to support community evaluation and dialogue.

These sources emphasize environmental justice, water and air impacts, community engagement, and long-term sustainability with key considerations for counties balancing development with public welfare.

5. Planning & Land-Use Commentary

Planning organizations and practitioners provide broader context on how data centers fit into land-use systems and infrastructure planning.

- **Etienne, B. (2025, September 29). *Zoning and permitting challenges for data centers: A growing infrastructure dilemma*.** LinkedIn. <https://www.linkedin.com/pulse/zoning-permitting-challenges-data-centers-growing-dilemma-etienne-2az8e>
Frames outdated codes and long permitting timelines (12–24 months) as bottlenecks; recommends classification updates, fast-track zones, and early community outreach.
- **Farber, D. (2025, August 4). *Data center permitting: A roadmap*.** Legal Planet. <https://legal-planet.org/2025/08/04/data-center-permitting-a-roadmap/>
Maps federal/state/local environmental permitting by project type and notes that renewables plus storage can reduce complexity while existing obligations remain.
- **Fluet, J. (2021, July 22). *Data centers evolved: A primer for planners*.** *Planning Magazine*. <https://www.planning.org/planning/2021/summer/data-centers-evolved-a-primer-for-planners/>
Explains edge vs. hyperscale facilities, infrastructure needs (power, security, noise), economic traits, and recommendations for explicit zoning definitions and incentives.

- **Gordon, S. (2026, April 20). *Data centers are here, and more are coming. Our zoning is not ready.* Smart Growth America.**
<https://www.smartgrowthamerica.org/knowledge-hub/news/data-centers-are-here-and-more-are-coming-our-zoning-is-not-ready/>
Argues data centers function more like energy infrastructure than traditional industry; calls for performance standards, location limits, expert review, and community benefits.
- **Hall, A. (2025, June 25). *Zoning and land use considerations for data centers.* Data Center Knowledge.** <https://www.datacenterknowledge.com/data-center-site-selection/zoning-and-land-use-considerations-for-data-centers>
Discusses zoning gaps, infrastructure/environmental impacts, preferred siting, design standards, and the competitive advantage of clear local frameworks.
- **LightBox. (2025, April 10). *Zoning and land use considerations for data centers.*** <https://www.lightboxre.com/insight/zoning-and-land-use-considerations-for-data-centers/>

These sources help jurisdictions understand national trends, infrastructure pressures, and the mismatch between traditional zoning categories and modern data-center needs.

Why these sources support data-center research

The sources provided are not exhaustive but taken together they are a reasonable starting point for this discussion. They highlight many of the issues counties must address, including land use compatibility, infrastructure capacity, environmental safeguards, community impacts, legal defensibility, and long-term lifecycle management. Because data centers are uniquely energy-intensive, infrastructure-heavy, and rapidly evolving, traditional industrial zoning and permitting standards may fail to address their impacts. These materials can help counties anticipate emerging trends, avoid regulatory blind spots, and adopt standards that reflect local priorities. It is important to note that this is only a sampling of widely available information. Because this is an ever-changing industry, research should continue, and qualitative data gathered from the public should be integrated into the research used to formulate policy.

Appendix

Written Public Comments

Daniel Priestley

From: bojibay19 [REDACTED]
Sent: Saturday, August 1, 2026 9:35 PM
To: Daniel Priestley
Subject: Data centers

Follow Up Flag: Follow up
Flag Status: Flagged

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It is my opinion that there is ZERO need for any surveillance centers in or around Sioux City or anywhere in the county. Everything I have read and researched leads me to believe it would be a severe detriment to the area with respect to the environment (excessive water usage and increased ambient temperatures), increase electrical costs to the citizens, etc. Why is it that all the sudden there is a huge "need" for these surveillance centers??? My 2 cents not that it means anything when pockets are getting lined.

Sent from my Galaxy

Daniel Priestley

From: Jason OTool [REDACTED]
Sent: Monday, August 17, 2026 1:22 PM
To: Daniel Priestley
Subject: Data center

Follow Up Flag: Follow up
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Just doing my part. I live on the 1800 block of 270th outside of salix. A mile or less as I understand from where this thing is supposed to be.

My main concerns with it are water and power usage, and pollution. Water pollution, noise pollution...ect. I can't say I've ever seen a big hyper center like this thing is supposed to be. So I dont know the ramifications first hand. I do believe the people I've seen in online videos that live near them in other locations are real people that do know first hand. I dont believe they're paid actors in staged houses. I also believe the people lobbying for it are just that, lobbyists. Telling us what we want to hear and there's nothing to be concerned about. There's very little noise...they're closed loop meaning no pollution....they won't use any more water than an irrigator...the talking points to ease residents nerves. I believe the lobbyists trying to sell the residents on it are only trying to line their own pockets. And i will believe a resident in an online video living near one in another location long before I believe a lobbyist trying to put one here.

I dont think I want one in my back yard. I run on well water and have no idea how deep it is. But I do know its clear. I can shower in it. I can do my dishes in it. It doesn't come out of the tap brown. Id like to keep it that way. Id also like to keep the peaceful life I've made out there. That's why I moved there away from the city with all the noise and traffic. Its quiet and peaceful and id like to keep it that way. I also have had no power issues. With the exception of the tornado that came through and knocked power lines down. And even then, we had power back within 3 hours. Very impressive. But if the horror stories concerning rolling blackouts caused by data centers are true, I'm not interested in that either.

It just feels like a lot of negative for the people that live in the area. More money in the powerfult pockets at our expense.

[Yahoo Mail: Search. Organize. Conquer](#)

Daniel Priestley

From: Janet Yanak [REDACTED]
Sent: Saturday, August 22, 2026 12:04 PM
To: Daniel Priestley
Subject: Re: Data center Town Hall Meeting
Attachments: Town Hall Meeting Sloan.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

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Thank you for the information Dan, I have attached a scan of the document that you were unable to open, this one is a pdf, if it does not open I will copy and paste the notes to an email.

I currently do not have sources listed, these are just things that I have learned from researching data centers. I have found Earth Justice to be a very valuable creditable resource.

Thank you,
Janet

From: Daniel Priestley <dpriestley@woodburycountyiowa.gov>
Sent: Friday, August 21, 2026 3:56 PM
To: Janet Yanak [REDACTED]
Subject: RE: Data center Town Hall Meeting

Hi Janet,

Thank you for sharing the materials from your research on data centers. Unfortunately, I am unable to open the attached file. I would appreciate it if you could resend it as a file attachment or attachments, or alternatively copy and paste the content directly into an email reply.

We are happy to receive any and all content you are willing to provide. All information received will be shared with the Commissioners.

Regarding participation in the town hall meetings: public comment periods are typically limited to a three-minute time frame. There is, however, no restriction on the volume of written materials that may be submitted, nor on how frequently such submissions may be made. For the meeting itself, it is advisable to focus on and highlight the key points you consider most important. It is also entirely appropriate to reference the materials you have submitted and to encourage the members to review the full comments and supporting information you have provided.

Your engagement is appreciated, and I am glad you plan to attend as many of the Planning and Zoning meetings as possible. Please feel free to share any additional thoughts or materials at your convenience.

Respectfully and sincerely,

Daniel J. Priestley
Woodbury County Zoning Coordinator
620 Douglas Street #609
Sioux City, IA 51101

Phone: 712-279-6609
Fax: 712-279-6530
Website: WoodburyCountyIowa.gov

From: Janet Yanak [REDACTED]
Sent: Friday, August 21, 2026 3:32 PM
To: Daniel Priestley <dpriestley@woodburycountyiowa.gov>
Subject: Data center Town Hall Meeting

CAUTION: This email originated from **OUTSIDE** of the organization. Please verify the sender and use caution if the message contains any attachments, links, or requests for information as this person may NOT be who they claim. **If you are asked for your username and password, please call WCICC and DO NOT ENTER any data.**

Hi Dan,

I am attaching some of the information that I have learned from researching data centers. Please let me know what your thoughts are, I can revise or edit anything that you feel is getting too deep into the weeds for a town hall meeting. If you are not able to open the document please let me know and I will copy and paste it to an email.

I have not participated in a town hall meeting where I have so much information to share, in your opinion would it be best to just submit the list or should I read it similar to what is done at the Supervisor's meetings?

Please let me me know. I am happy that Planning and Zoning is holding these meetings and plan to attend as many as possible.

If you are curious about financial side of these AI companies, I have posted a Wall Street Journal Article on my Facebook page or you can find it on the Wall Street Journal website the title is Why Big Tech's AI Spending is \$3 Trillion higher Than It Seems dated Aug 16,2026 by Peter Rudegeair and Peter Santilli.

Thank you,
Janet Yanak [Hyperscale Data Center Notes.docx](#)

Hyperscale Data Center Notes

1. **Specifically define hyper scale or mega data center. For example:**
A hyperscale data center is a facility with at least 5,000 servers, 10,000 square feet of floor space, and 40 megawatts of power capacity or other specific wording.
2. State which zoned areas are compatible with hyperscale data center development. For example: heavy industrial, light industrial, commercial, mixed use. Of those areas which is optimal use and which if any others could be considered?
3. **How will these centers be permitted? Recommendation would be by special use only allowing for public input.**
4. No tax incentives, abatements, PILOT. This would insure that the data center, it's developers and end user will pay the same taxes as any other heavy industrial customer.
5. Environmental impact study to be completed and attached to the building permit. Building permit will not be approved if there is measurable detrimental effect on parks, wetlands, wildlife, lakes, streams, rivers or waterways.
6. Water use must be stated in initial building permit. Any change that will increase water use must be submitted to planning and zoning for review and sent to the Board of Supervisors for approval. Construction during the review and approval process is strictly prohibited. Wastewater required to be tested and treated to acceptable levels prior to being released from the facility.
7. *Noise pollution – define a level during working hours and outside hours by decibel rating, clearly define those hours. Define infrasound level and set maximum allowable levels, state who is responsible for monitoring, define penalties for failure to comply.*
8. *Air pollution- no diesel generators, strict limits on times allowed and duration of backup generator testing. Define time limits that generators can be utilized during power outages and disaster occurrences.*
9. Dust mitigation required during all phases of construction, dust may not leave the permitted construction area.
10. Light pollution- directional lighting required lights may not disturb traffic or properties surrounding the facility.
11. Decommissioning – the facility owner(s) must deposit into a restricted access escrow account, cash, in the amount that will be required to return the property permitted for the data center to it's original state or an acceptable equivalent. The amount of the cash escrow will be determined by a qualified, bonded and insured commercial entity with experience in the demolition and repurposing of large commercial properties. The escrow cash will be held by a professional insured escrow company and accessible only by a vote of the Board of Supervisors upon determining the facility is no longer in use.

Daniel Priestley

From: Glenn & Pam Clark [REDACTED]
Sent: Saturday, August 22, 2026 1:32 PM
To: Daniel Priestley
Subject: Re: Comments Requested about Data Center Permitting in the Unincorporated Areas of Woodbury County
Attachments: SummaryOfDataCenterRecommendations.pdf; DataCenterRecommendationsEdited.pdf
Follow Up Flag: Follow up
Flag Status: Flagged

CAUTION: This email originated from **OUTSIDE** of the organization. Please verify the sender and use caution if the message contains any attachments, links, or requests for information as this person may NOT be who they claim. **If you are asked for your username and password, please call WCICC and DO NOT ENTER any data.**

Dan, Attached find both my research and a brief summary of my findings using help from my sister who is an environmental engineer and AI. In the long version, there is some redundancy, but there are definitely many things to consider when deciding how the county should provide the best guidance and permitting process for data centers. If you have questions or need clarifications, please contact me. Pam

On Friday 08/21/2026 at 12:25 pm, Daniel Priestley wrote:

Dear Woodbury County Stakeholders:

Please provide your input regarding the potential permitting of data center facilities in the unincorporated areas of Woodbury County. The Woodbury County Zoning Commission is studying data centers with the mission of preparing a recommendation to the Board of Supervisors on how best to facilitate the permitting application process within the Woodbury County Zoning Ordinance—whether as a zoning ordinance text amendment or through another ordinance mechanism.

Your perspectives are essential. The Commission is seeking input on potential requirements and regulations for data centers, appropriate zoning districts and locations (including consideration of the General Industrial (GI) Zoning District), and the permitting application process itself—such as whether a conditional use permit or a comparable mechanism would be most suitable. **Written comments will be especially helpful to the Zoning Commissioners as they work to craft a recommendation to the Board of Supervisors on how to address the permitting of data centers in the unincorporated areas.**

IMPORTANT JURISDICTIONAL NOTICE: These town hall meetings and any proposed zoning regulations apply **ONLY** to unincorporated areas under Woodbury County zoning jurisdiction. Incorporated cities and towns within Woodbury County regulate their own zoning ordinances and within their own corporate boundaries independently.

The Zoning Commission will host three initial public listening sessions (town hall meetings) to gather citizen and stakeholder input. Additional meetings will be scheduled in other Woodbury County communities as needed. The first of these three initial meetings will be held as follows:

FIRST TOWN HALL MEETING

Monday, August 31, 2026 • 7:00 PM

Sloan Community Hall

423 Evans Street, Sloan, IA 51055

The remaining initial town hall meetings are scheduled as follows:

2. Merville Town Hall — Monday, September 21, 2026 at 7:00 PM

Merville Community Center, 815 Main Street, Merville, IA 51039

3. Salix Town Hall — Monday, November 9, 2026 at 7:00 PM

Salix Community Center, 317 Tipton Street, Salix, IA 51052

All interested residents, property owners, and stakeholders are strongly encouraged to attend these meetings and share their perspectives. Whether or not you are able to attend in person, your written comments and concerns are welcome and will assist the Zoning Commission in its work.

Please submit written comments on or before August 28 by email to:

Dan Priestley, Zoning Coordinator

Email: dpriestley@woodburycountyiowa.gov

Woodbury County Planning and Zoning

620 Douglas Street, Sixth Floor, Sioux City, IA 51101

For further information, please contact Dan Priestley, Zoning Coordinator, at (712) 279-6609, or visit the county website at www.woodburycountyiowa.gov.

Thank you for your engagement and for helping shape the future of land use in Woodbury County's unincorporated areas.

Sincerely,

Daniel J. Priestley
Woodbury County Zoning Coordinator
620 Douglas Street #609
Sioux City, IA 51101

Phone: 712-279-6609

Fax: 712-279-6530

Website: WoodburyCountyIowa.gov

In summary I recommend that Woodbury County establish a dedicated land use category for data centers, permitting them only through a conditional process with strict standards to balance economic growth and community protection.

Key Recommendations

Create a new "Data Center" use, allowed only in industrial districts or overlay zones. Use a Conditional Use Permit (CUP) process with public hearings, site-specific conditions, and objective standards.

Establish siting criteria: minimum parcel size, highway access, proximity to transmission lines, setbacks, and buffers.

Address visual impacts, noise, lighting, water and power infrastructure, and environmental concerns.

Require disclosure of power and water demands, impact analyses, and long-term management plans.

Protect infrastructure through traffic studies, road repairs, bonding, and development agreements.

Implement ongoing monitoring of water, energy, noise, and site operations with annual reporting.

Discourage allowing data centers in residential, prime agricultural, or environmentally sensitive areas.

Balance flexibility with safeguards to prevent adverse impacts while supporting technological and economic development.

Consider decommissioning if a data center closes for any reason. Ensure that they will return the site in suitable condition for further use in the county.

Because traditional zoning categories do not adequately address the unique impacts associated with large-scale data centers, I think Woodbury County should approach data centers as a distinct land use category, rather than trying to fit them into existing industrial, commercial, or utility classifications.

Woodbury County's goal should be to create a permitting framework that is:

Predictable for developers

Protective of neighboring landowners

Protective of agricultural land and rural character

Protective of public infrastructure and natural resources

Transparent to the public

A good ordinance should neither encourage nor discourage data centers outright; it should clearly define where and under what conditions they may be developed.

If one were to create a specific Data Center Use Classification, data centers need to be defined separately within the zoning ordinance and distinguish between:

Small data centers

Large/hyperscale data centers

Adopt specialized regulations because data centers more closely resemble infrastructure-intensive industrial facilities than office buildings.

I think Permitting should be done through a Conditional Use Permit Process (CUP) with the following recommendations:

Allow data centers only in designated industrial districts or specified agricultural districts through a Conditional Use Permit (CUP).

Require public hearings before approval.

Allow site-specific conditions.

This provides flexibility while still giving developers a predictable path, but it allows our communities to evaluate impacts such as noise, lighting, water use, and infrastructure demands.

When establishing a clear siting criteria, Woodbury County should consider:

Minimum parcel size

Access to major highways

Proximity to high-voltage electric transmission

Distance from residential concentrations

Avoidance of flood-prone areas

Compatibility with the County Comprehensive Plan

Require Significant Setbacks and Buffers

Also of concern should be the visual impacts, backup generator noise, lighting, and industrialization of agricultural landscapes

The National Association of Counties notes that jurisdictions are adopting setbacks considerably larger than typical building setbacks, ranging from hundreds of feet from residential uses.

Therefore Woodbury County could require:

500-1,000 feet from residences or residential-zoned land

Landscape screening

Berms where appropriate

Another major consideration should address power infrastructure

A critical issue is electrical demand.

The ordinance should require disclosure of:

Expected power consumption

Substation requirements

Transmission line needs

Utility agreements

Data centers often drive significant upgrades to electrical infrastructure. Are the power companies onboard and prepared to meet the energy demands and be able to provide the power without diminishing community residents power needs.

Another very important consideration should address water consumption. This may become one of the most important issues.

Applicants should provide:

Water demand estimates

Source of water

Impact analysis on neighboring wells

Long-term water-management plans

Recent Iowa ordinances have required formal water studies and water-use agreements before development approval as Linn County did.

My sister is an environmental engineer and I asked her input on permitting of data centers. She said another factor to consider is to find out a data center's effluent (what comes out after water has been run through the cooling coils. She said many times companies add water softening chemicals to prevent scaling on the cooling coils. Also, where will the water go after the data center is done with it? Does the sewer have the capacity and the ability to handle the water or can it be land-applied? What impact would this have on local resources. Does the data center plan to build their own water treatment plant or will they build water treatment ponds

The county should require noise and lighting standards

Backup generators can create substantial noise during testing and emergencies.

The ordinance should establish:

Daytime and nighttime noise limits at property lines

Shielded lighting requirements

Dark-sky standards

Emergency generator testing schedules

The county infrastructure must also be protected by requiring developers to:

Conduct traffic impact studies

Identify road improvements needed

Repair road damage caused during construction

Post bonding if necessary

Several recent ordinances require compensation for road and infrastructure impacts.

The county should consider development agreements

For hyperscale facilities, the County should reserve the option to negotiate:

Infrastructure commitments

Emergency services support

Community benefit contributions

Water-use monitoring

Reporting requirements

The county should also require ongoing monitoring

Annual reporting could include:

Water usage

Energy consumption

Generator testing

Noise complaints

Site operations

This allows the County to understand long-term impacts rather than focusing solely on initial approval.

In summary Woodbury County should amend its Zoning Ordinance to establish data centers as a separate land-use category permitted only through a Conditional Use Permit process within designated districts. The ordinance should include standards addressing setbacks, buffering, noise, lighting, water use, electrical infrastructure, road impacts, emergency services, and long-term monitoring. This approach provides certainty to applicants while protecting neighboring landowners, agricultural resources, and county infrastructure.

Given Woodbury County's agricultural character and proximity to major electric transmission corridors, I would favor a "conditional approval with robust standards" model rather than either unrestricted approval or outright prohibition. That balance is most likely to withstand public scrutiny and legal challenge while preserving the County's flexibility for future technology and economic development projects.

Option A (Recommended)

Create a new defined use called "Data Center."

Allow it only in:

Heavy Industrial

General Industrial or

A specially designated Data Center Overlay District

Option B

Allow in Agricultural Preservation districts only through a special approval process when specific criteria are met, such as proximity to transmission infrastructure and major transportation routes.

I would discourage allowing them in:

Residential districts

Commercial districts

Areas planned for future residential growth

Prime agricultural areas without additional scrutiny

2. Appropriate Locations

A policy recommendation could identify preferred characteristics:

Preferred Sites

Adjacent to existing high-voltage transmission lines or substations

Near interstate or major highway access

Outside floodplains

Away from concentrated residential development

Areas already planned for industrial growth

Areas where utility providers confirm service capacity

Less Suitable Sites

Highly productive farmland unless infrastructure advantages are compelling

Areas with known groundwater limitations

Scenic corridors or environmentally sensitive areas

Areas where substantial new transmission corridors would cross developed farmland

3. Approval Process

Conditional Use Permit (CUP) is my preferred recommendation.

Advantages:

Public hearing

Site-specific conditions

Ability to address water, roads, noise, and buffering

Existing process already familiar to county government

Disadvantages:

Less certainty for developers

Potential political pressure during hearings

However, these disadvantages can be minimized through clear approval criteria.

Recommended Structure

Data centers should be:

"Conditional Uses within designated industrial districts subject to compliance with adopted performance standards."

This allows the County to avoid arbitrary decision-making while retaining oversight.

Alternative: Special Use Permit / Special Exception

Depending on how the Woodbury County ordinance is structured, a Special Use Permit could be nearly identical to a CUP.

If the County wants a higher level of review, this may be preferable.

The key issue is not the title of the process but ensuring:

Public notice

Public hearing

Findings of fact

Ability to impose conditions

Ability to deny proposals that do not meet standards

Performance Standards Worth Recommending

The ordinance should establish objective standards for:

Setbacks and Buffers

Enhanced setbacks from residences

Landscaping requirements

Berms where appropriate

Noise

Property-line noise standards

Limits on generator testing

Lighting

Full cut-off fixtures

Dark-sky compliance

Water

Water source identification

Water use study

Groundwater impact analysis if wells are used

Several recent Iowa and national ordinances have focused heavily on water-use evaluation and agreements.

Transportation

Construction traffic management

Road-use agreements

Infrastructure reimbursement if warranted

Emergency Services

Fire protection plans

Coordination with county emergency management

Decommissioning

Removal requirements

Financial security if appropriate

5. My Recommendation to the Supervisors

If I were drafting a concise formal recommendation, I would write:

The County should create a separate land-use classification for Data Centers and permit them only within designated industrial districts or specifically identified locations. Approval should occur through a Conditional Use Permit or similar discretionary review process that includes public hearings and findings of fact. The ordinance should include objective standards addressing setbacks, noise, lighting, water use, electrical infrastructure, road impacts, emergency services, and site decommissioning. This approach balances economic development opportunities with protection of surrounding landowners and county infrastructure.

From a land-use perspective, the strongest argument is that data centers are too impactful to be approved by right, yet too valuable to prohibit outright. A well-defined CUP process provides the most balanced approach for Woodbury County.

Ordinance Development

The following are conceptual categories that can be used as a general guide for beginning the process to shape a potential ordinance. This includes core policy, regulatory, and practical issues. Each category is framed in a way to promote discussion around mechanism, and priorities. This is a draft and is subjected to changes and adjustments as necessary.

1. Overall Purpose and Policy Goals

- Defining the primary objectives of regulation (protecting public health, safety, and welfare; minimizing impacts on surrounding properties, infrastructure, natural resources, and rural character).
- Balancing economic development opportunities against continuous operational effects such as noise, water demand, energy load, and long-term site management.
- Establishing whether data centers should be treated as a distinct land-use category requiring specialized standards rather than falling under general industrial rules.

2. Zoning District Placement and Use Classification

- Determining in which zoning districts data centers may be allowed (for example, only as a conditional or special-use permit in general industrial districts).
- Identifying districts where they should be prohibited outright (agricultural, residential, commercial, limited industrial, planned development, conservation, etc.).
- Clarifying whether different scales or types of facilities (colocation, enterprise, hyperscale) warrant different district treatment or review processes.

3. Public Notification and Community Engagement

- Setting the geographic radius for mailed notice to property owners for conditional-use hearings (standard distances versus expanded zones such as one mile).
- Specifying the method of compiling the notification list (certified abstractor listing or other verified source).
- Considering whether additional outreach (public meetings, postings, or online materials) is warranted given the scale and continuous nature of operations.

4. Application Requirements and Supporting Studies

- Requiring professional studies prepared by licensed experts as part of the permit application, including:
 - Predictive noise modeling of primary sources (cooling systems, generators, etc.).

- Water-demand projections, cooling-method descriptions, sustainability assessments, and drought contingency plans.
 - Energy-load and grid-compatibility analyses (capacity requested, interconnection status, potential reliability effects).
 - Emergency management and fire-protection plans coordinated with local responders.
 - Detailed decommissioning and site-reclamation plans with cost estimates.
- Deciding whether additional materials (traffic studies, visual simulations, environmental assessments) should be mandatory or discretionary.

5. Separation Distances (Setbacks)

- Establishing minimum distances from occupied residences or residentially zoned land, public rights-of-way, adjacent industrial parcels, and parks or conservation areas.
- Determining whether any setbacks may be reduced through recorded waivers or covenants from affected owners.
- Evaluating whether larger buffers are needed for hyperscale facilities or for specific sensitive receptors.

6. Operational and Environmental Performance Standards

- **Noise:** Setting continuous sound-pressure limits (daytime and nighttime) measured at property lines or nearest residences, along with requirements for attenuation measures (enclosures, baffling, etc.). Clarifying exceptions for temporary emergency generator use.
- **Water resources:** Prohibiting or restricting private groundwater extraction for cooling; requiring use of public supplies; mandating high-efficiency cooling technologies (closed-loop, zero-liquid-discharge, or air-cooled systems); and establishing thresholds that trigger formal water-use agreements with the county.
- **Emergency power and fuel storage:** Specifying preferred fuel types or emission standards; requiring double-walled tanks and secondary containment sized to a percentage of tank capacity.
- **Screening and aesthetics:** Mandating security fencing or walls of a minimum height and continuous landscape buffers (width, plant types, density) along public roads and non-industrial boundaries.

7. Decommissioning, Abandonment, and Financial Assurance

- Defining the trigger for required decommissioning (for example, continuous non-operation for a set number of months).
- Specifying the scope of removal work (above-ground structures, foundations to a minimum depth, utilities, hazardous materials, site restoration to agricultural or pre-development condition).

- Establishing financial security instruments (letter of credit, cash escrow, or equivalent) sized to a percentage of estimated decommissioning costs, with periodic updates and no credit for salvage value.
- Clarifying responsibility if the operator defaults and the role of the county in enforcing or completing the work.

8. Definitions and Scope

- Crafting clear definitions that distinguish commercial data centers from ordinary offices, retail computer services, or accessory network rooms.
- Differentiating subtypes (colocation facilities serving multiple tenants, single-enterprise facilities, and hyperscale facilities defined by floor area or continuous power demand).
- Ensuring definitions capture the characteristic features (dense computing equipment, specialized cooling, backup power, fire-suppression systems) while remaining adaptable to technological change.

9. Administrative and Procedural Integration

- Integrating new standards into existing conditional-use review procedures, including any specialized findings the board of adjustment must make.
- Addressing cross-references to public-notice rules, land-use tables, and definition sections.
- Providing for periodic review or updates of standards as technology, water availability, grid conditions, or industry practices evolve.
- Confirming severability, conflict resolution with prior regulations, and the effective-date process.

10. Broader Implementation Considerations

- Coordination with regional utilities, water authorities, emergency management agencies, and volunteer fire departments.
- Monitoring and enforcement mechanisms (complaint procedures, periodic compliance reporting, or independent verification).
- Potential economic tools or incentives that could be paired with regulatory standards, if desired.
- Flexibility mechanisms (variances, planned-unit-development alternatives, or adaptive management plans) versus fixed numeric thresholds.

Notes on the 2026 NACo Annual Conference Educational Summit: Data Centers, the Grid and County Development

(National Association of Counties / NACo; ~57 minutes) – July 30, 2026

Video link: <https://www.youtube.com/watch?v=PZKhdeBXPSE>

Video description / core theme

Data centers are reshaping local economies, land use, and electricity infrastructure. They bring jobs and tax revenue to some counties while straining grids and raising electricity costs in others. The session examines the roughly \$3 trillion national investment driving data center growth, the county role in siting and grid stability, fiscal and community impacts, and a practical framework for evaluating proposals.

Speakers

- **John Farner** (Moderator), Executive Director of Land and Water, Lincoln Institute of Land Policy
- **Hon. Jessica Fitzwater**, County Executive, Frederick County, Maryland
- **Hon. Rick Handley**, Commissioner, Mason County, West Virginia
- **Heather Coil (Coyle)**, Senior Manager, State Policy & Partnerships, Data Center Coalition (DCC)

1. Framing the Issue as Historic Infrastructure Build-Out (John Farner)

Farner frames data centers as a massive private infrastructure build-out comparable to earlier U.S. expansions:

- **Railroads (1870–1890):** Rapid private investment; localities had almost no say (“railroaded”).
- **Interstate Highway System (to ~1976):** Publicly financed; counties generally had little or no control over routing.

AI / data-center “five-layer cake” (drawing on NVIDIA CEO Jensen Huang’s Davos remarks):

- Top two layers: AI models and applications (ChatGPT-style tools, enterprise uses).
- Bottom three layers (on-the-ground infrastructure counties must manage):
 1. Energy / power generation
 2. Chips and compute (e.g., TSMC facilities in Phoenix described as “Death Star”-scale)
 3. Cloud infrastructure = data centers

Current and future geography Maps show active hubs (Northern Virginia, Arizona, Texas, Georgia) plus planned, under-construction, non-operational, and land-banked sites spreading into new areas. The picture changes daily. Lincoln Institute is preparing a full online toolkit (fall release) in coordination with NACo.

Six key areas relevant to counties

1. **Siting** — location, surrounding uses, water source, energy source.
2. **Local authority & capacity** — Do you have decision-making power, information, and *data-center-specific* ordinances (not just generic industrial rules)?
3. **Community benefits** — Housing, jobs, economic development; emerging Community Benefit Agreements (CBAs).
4. **Risk mitigation** — What happens if facilities become obsolete (e.g., future space-based computing)? Avoid stranded assets; build tools up front.
5. **Watershed / regional approach** — Energy or water impacts often spill into neighboring counties.
6. **Community engagement** (most important) — Continuous involvement from siting through benefits.

2. County Perspectives

Frederick County, Maryland (Jessica Fitzwater)

- Seventh-largest and fastest-growing county in Maryland; part of the Baltimore–D.C.–Frederick triangle.
- **Story began with redevelopment:** Quantum Frederick hyperscale campus on the former Eastalco aluminum smelter (already industrially zoned, long vacant). Approvals predated Fitzwater’s term. No additional new data-center projects approved since.
- **Regulatory response:**
 - Data-center work group (early 2023) with environmental, agricultural, business, labor, and community leaders.
 - Nation’s toughest standards on noise, vibration, expanded setbacks, clear zoning.
 - Zoning overlay limits data centers to <1 % of county land.
 - Agricultural-preservation requirement: 5 acres preserved for every 1 acre used by data centers.
 - Executive orders pausing applications while rules were refined.
- **Fiscal results:** Quantum Frederick has generated >\$3.5 billion in recorded transactions and >\$50 million in one-time recordation-tax revenue supporting agriculture, open space, housing, and transit. **No local incentives or tax breaks** were given (“they don’t need them”).
- **Community-benefit negotiations** underway so residents share in the value.

- Public engagement has intensified dramatically, producing frustration, legal challenges to zoning, and more misinformation than any other issue in her experience.
- Stance: Neither pro- nor anti-data center. Priority is regulation that protects quality of life while maximizing benefits.
- **State–local coordination is essential:** Many critical issues (energy use, air pollution, well-water impacts, utility rates) are outside county authority. Frederick has advocated for expanded local taxing authority, stronger statewide energy rules, transparency/public-reporting requirements, and better air-pollution monitoring. Recent state creation of a large-load customer registry for data centers was incorporated via executive order requiring proof of registration before county applications advance.
- Constituents do not care which level of government is responsible; they want protection and responsiveness.

Key advice: Be extremely careful with tax incentives—they can create legal hurdles (quid-pro-quo problems) for later Community Benefit Agreements.

Mason County, West Virginia (Rick Handley)

- Rural agricultural/industrial county (~25,000 people). Hosts a major Nucor steel mill with a favorable 30-year PILOT that delivers \$1 million/year (significant relative to a \$12 million county budget).
- **Data-center project:** First phase of a multi-phase facility under construction; second project already acquiring land (prices up to ~\$42,000/acre). Uses natural gas (not the grid) and Ohio River water (treated, used for cooling, returned—similar to nearby power plants). These design choices address common electric-bill and aquifer concerns.
- **Major constraint — House Bill 2014:** State legislation that *preempts* local control. It exempts data centers from county/municipal zoning, noise, lighting, land-use rules, building permits, inspections, code enforcement, and licensing. The legislature expressly occupies the entire regulatory field.
 - Tax-revenue split: 50 % to the state (to help cut personal income tax), 30 % to the host county (hard-fought), 10 % shared among all counties, 10 % to state agencies.
 - Host counties therefore receive substantial new revenue (estimates \$15–25 million) but lose siting and regulatory authority. Commissioners still face political blame and election pressure.
- **On-the-ground problems:**
 - First facility sited adjacent to a residential area. Complete vegetation stripping + heavy rain caused silt/mud flooding of homes (Memorial Day weekend and a later event). Company cleaned up and is now buying many of the 53 homes, but some long-time elderly residents do not want to leave.

- No public meetings before construction; only private talks with individual landowners. Lack of transparency damaged trust.
- **Positive contributions:** Company donated \$250,000 to the sheriff's department for vehicles and \$300,000 to EMS.
- Core message: Local input is essential; transparency, communication, and trust are non-negotiable. Misinformation (often based on outdated data-center practices) is rampant.

3. Industry Perspective (Heather Coil, Data Center Coalition)

- DCC represents large data-center owners/operators and major data users. Focuses on policy, advocacy, workforce, and stakeholder outreach.
- Personal background includes early work in a brownfield data center (former St. Louis Post-Dispatch printing plant).
- **Economic scale** (2023–2024 figures cited):
 - \$1.7 trillion contribution to U.S. GDP (direct + indirect).
 - Direct employment >1 million; supported ~5.5 million jobs total.
 - Each data-center job supports ~4.5 other jobs.
 - \$369 billion in federal/state/local tax contributions.
- Data growth is explosive: U.S. customers/businesses will generate twice as much data in the next 5 years as in the previous 10; one-third of the global population is still offline. Average U.S. household has ~21 connected devices. 95 % of Fortune 500 companies rely on the cloud.
- Industry commitment: Be good neighbors, use energy and water efficiently/sustainably, and tailor community benefits to local priorities.
- DCC works at the state level on authority/home-rule clarity and engages in rate cases (30 states last year) to ensure data centers pay full cost of service.
- Emerging work: Creating regular forums for industry–local–official dialogue and increasing staff capacity so companies can better communicate benefits and answer questions.

4. Interactive Table Exercise & Audience Themes

Participants discussed a NACo data-center checklist. Key gaps identified and reported back:

- **Trusted data validation** — Independent, credible verification of energy, water, and resource-use claims to build public confidence.
- **Community engagement & transparency** — Better guidance on early public education, in-person engagement (not just social media), and transparent information sharing.

- **Model policies & best practices** — Proven development models and ordinances that can be adapted (acknowledging that authority structures differ widely across states).

Panel reactions

- Fitzwater: These three themes capture the core challenges. Model policies are hard because home-rule vs. preemption varies dramatically; Maryland’s strong environmental rules and new large-load registry help. Early, multi-forum, in-person engagement is the hardest and most important task amid national noise and misinformation. Companies must become better storytellers about construction jobs (high-quality, union-supported), permanent jobs, downstream business benefits, and long-term revenue that funds schools, public safety, and amenities. Revenue is game-changing but often invisible at the start; local officials cannot be left to “defend big tech.”
- Coil: DCC will carry these themes back to members. Industry is already active on rate cases and is adding community-engagement capacity. Regular industry–local forums are in development.
- Handley: Emphasized transparency + communication + **trust**. Absence of public meetings was a major missed opportunity. Local control (or at least meaningful input) is essential for fairness to counties and citizens.

5. Resources, Next Steps & Closing

NACo resources (QR codes shown):

- Energy resources and events
- Rural-county-specific programming
- Energy symposium
- Data-center resource hub

Lincoln Institute: Forthcoming toolkit of model ordinances drawn from across the United States (counties can adapt what fits local needs). Strong focus on building staff capacity (in partnership with Claremont Lincoln University).

Overall takeaway for county leaders Data-center development is a high-stakes, fast-moving infrastructure wave. Success requires:

- Clear local authority and data-center-specific rules where possible
- Close coordination with state and regional energy regulators
- Early, continuous, transparent community engagement
- Realistic risk mitigation and community-benefit structures
- Independent data validation

- Willingness by both local governments and industry to share information and build trust

Counties that prepare frameworks now will be better positioned to capture benefits while protecting quality of life and fiscal health. The conversation is ongoing; NACo and partners such as the Lincoln Institute are developing practical tools to support that work.

Meeting Notices

Sioux City Journal

AFFIDAVIT OF PUBLICATION

Sioux City Journal
2802 Castles Gate Drive
Sioux City 51106
(712) 293-4250

State of Florida, County of Broward, ss:

Anjana Bhadoriya, being first duly sworn, deposes and says: That (s)he is a duly authorized signatory of Column Software, PBC, duly authorized agent of Sioux City Journal, printed and published by Journal Communications, in Sioux City in Woodbury County and issued daily and Sunday and that this affidavit is Page 1 of 1 with the full text of the sworn-to notice set forth on the pages that follow, and the hereto attached:

PUBLICATION DATES:
Aug. 15, 2026

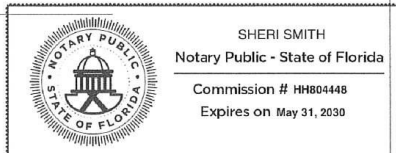
NOTICE ID: h6ZilPWkNv5tp3QXS7Zr
PUBLISHER ID: COL-IA-503547
NOTICE NAME: Townhall - Sloan
Publication Fee: \$43.03

Anjana Bhadoriya

(Signed) _____

VERIFICATION

State of Florida
County of Broward



Subscribed in my presence and sworn to before me on this: 08/17/2026

S. Smith

Notary Public
Notarized remotely online using communication technology via Proof.

NOTICE OF PUBLIC TOWN HALL MEETING BEFORE THE WOODBURY COUNTY ZONING COMMISSION TO SEEK INPUT FROM THE PUBLIC ABOUT THE PERMITTING PROCESS OF DATA CENTERS IN UNINCORPORATED WOODBURY COUNTY, IOWA - TO BE HELD IN SLOAN, IA, AUG. 31, 2026 AT 7:00 PM

The Woodbury County Zoning Commission will hold a public town hall meeting (hearing/listening session) to gather citizen input on potential amendments to the Woodbury County Zoning Ordinance regarding data center facilities in the unincorporated areas of Woodbury County, Iowa, on **Monday, August 31, 2026 at 7:00 PM**. Said public town hall meeting will be held at the **Sloan Community Hall, 423 Evans Street, Sloan, IA 51055**.

The Zoning Commission is studying data centers with the mission to prepare a recommendation to the Board of Supervisors on how to facilitate the permitting application process in the Woodbury County Zoning Ordinance as a zoning ordinance text amendment or another ordinance. The Commission will be seeking input on potential requirements and regulations, as well as zoning districts (locations) such as the General Industrial (GI) Zoning District, and the permitting application process itself, such as a conditional use permit or a comparable mechanism.

IMPORTANT JURISDICTIONAL NOTICE: These town hall meetings and proposed zoning regulations apply **ONLY** to unincorporated areas under Woodbury County zoning jurisdiction. Incorporated cities and towns within Woodbury County regulate their own zoning ordinances and corporate boundaries independently.

All interested residents, property owners, and stakeholders are strongly encouraged to attend and share their perspectives. You may also forward your written comments and concerns by mail or email to: Woodbury County Planning and Zoning, 620 Douglas Street, Sixth Floor, Sioux City, IA 51101; Emails should be sent to Dan Priestley at: dpriestley@woodburycountyia.gov.

For further information, please contact Dan Priestley, Zoning Coordinator, Woodbury County Planning and Zoning at (712) 279-6609 or visit the county website at www.woodburycountyia.gov.

Additional town hall meetings are scheduled for Monday, September 21, 2026 at 7:00 PM at the Moultrie Community Center, 815 Main Street, Moultrie, IA 51039, and Monday, November 9, 2026 at 7:00 PM at the Salix Community Center, 317 Tipton Street, Salix, IA 51052. Additional meetings will be scheduled in other Woodbury County communities as needed.
COL-IA-503547



Dawn Norton
Woodbury County Planning & Zoning
620 Douglas Street, 6th Floor
Sioux City, IA 51101
dnorton@woodburycountyiowa.gov

THIS IS NOT AN INVOICE

AFFIDAVIT OF PUBLICATION

#427033 Town Hall Mtg re: Data Centers Aug. 31, 2026

The undersigned, being first duly sworn on oath, states that Iowa Information Media Group, a corporation duly organized and existing under the laws of the State of Iowa, with its principal place of business in Sheldon, Iowa, the publisher of newspapers of general circulation as identified below, and printed and published in the city of Moline, Woodbury county, Iowa, and that a legal notice, a printed copy of which is attached as Exhibit "A" and made part of this affidavit, was printed and published in the publication(s) and editions dated as follows:

427033

The Record 8/20/26

\$49.04

Myrna Wagner
Management, The Record

Subscribed and sworn to before me by said
Myrna Wagner this 20th day of August, 2026

Lori Wiersma
Notary Public in and for State of Iowa



WOODBURY COUNTY PLANNING & ZONING

**NOTICE OF PUBLIC TOWN HALL MEETING BEFORE THE
WOODBURY COUNTY ZONING COMMISSION TO SEEK INPUT
FROM THE PUBLIC ABOUT THE PERMITTING PROCESS OF
DATA CENTERS IN UNINCORPORATED WOODBURY COUNTY –
TO BE HELD IN SLOAN, IA, AUG. 31, 2026 AT 7:00 PM**

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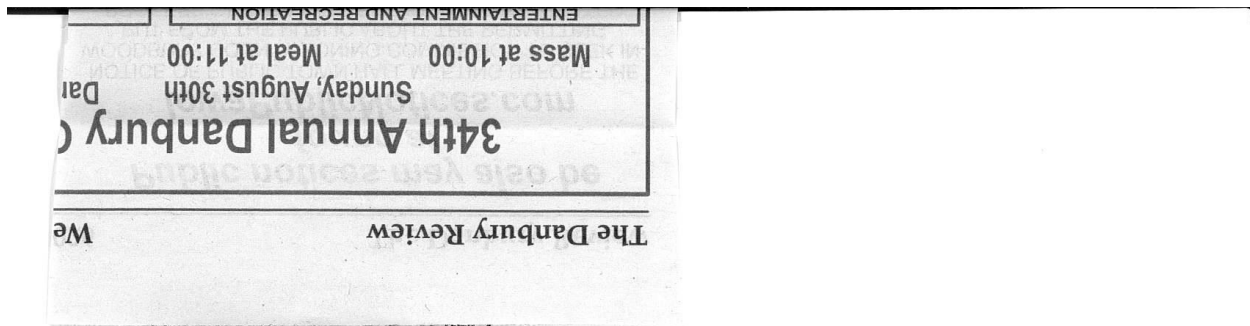
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Additional town hall meetings are scheduled for Monday, September 21, 2026 at 7:00 PM at the Merville Community Center, 815 Main Street, Merville, IA 51039, and Monday, November 9, 2026 at 7:00 PM at the Salix Community Center, 317 Tipton Street, Salix, IA 51052. Additional meetings will be scheduled in other Woodbury County communities as needed.

(#427033)

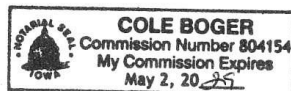


WOODBURY COUNTY

I, LYNN BUTH, being duly sworn, say that I am the editor of THE DANBURY REVIEW, a weekly newspaper of general circulation printed and published in Danbury, Woodbury County, Iowa, and that the Notice of town hall meeting for data centers of which the annexed is a printed copy, was published in said paper for 1 week, the first publication being on the 19th day of August, 2026, and the last publication on the 19th day of August, 2026.

Lynn Buth

Sworn to before me and subscribed in my presence by the said Lynn Buth this 20th day of August A.D., 2026.



Cole Boger

Notary Public in and for said County and State

PROOF OF PUBLICATION

STATE OF IOWA

WOODBURY COUNTY

026

The Danbury Review

**Public notices may also be
found at
IowaPublicNotices.com**

NOTICE OF PUBLIC TOWN HALL MEETING BEFORE THE
WOODBURY COUNTY ZONING COMMISSION TO SEEK IN-
PUT FROM THE PUBLIC ABOUT THE PERMITTING
PROCESS OF DATA CENTERS IN UNINCORPORATED
WOODBURY COUNTY – TO BE HELD IN SLOAN, IA, AUG.
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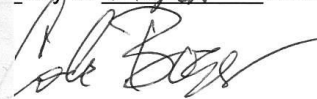
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I, duly sworn, say that I am the editor of THE DAILY JURY REVIEW, a weekly newspaper of circulation printed and published in Woodbury County, Iowa, and that the town hall meeting for data centers which is annexed is a printed copy, was published in said paper for 1 week, the first publication on the 19th day of August, 2026.



I am and subscribed in my presence said Lynn Butth this
day of August A.D., 2026.



Public in and for said County and State



Danbury Review
PO Box 207
Danbury, IA 51019
712-893-2001
<review@danbury-ia.com>

Statement

Date

08/19/26

Bill To

WOODBURY COUNTY PLANNING & ZONING
620 DOUGLAS ST FL 6
SIOUX CITY, IA 51101-1247

Amount Due

Amount Enc.

\$62.55

Date	Item	Description	Amount	Balance
07/31/26		Balance forward		0.00
08/19/26	Legals	Notice Town Hall Meetings for Data Centers	48.55	48.55
08/19/26	1x4	Town Hall ad	14.00	62.55
			Amount Due	
			\$62.55	

WOODBURY COUNTY ZONING COMMISSION

DATA CENTER TOWN HALL MEETINGS
Public input sought.

The Planning and Zoning Commission for the unincorporated area of Woodbury County is reviewing data centers and will recommend to the Board of Supervisors ways to facilitate the permitting application process through a zoning ordinance amendment or other ordinance. Public input is sought on potential requirements, regulations, zoning districts such as General Industrial (GI), and permitting methods such as a conditional use permit or similar process.

SLOAN
Mon., Aug. 31, 2026, 7:00 PM
Sloan Community Hall
423 Evans St, Sloan

MOVILLE
Mon., Sep. 21, 2026, 7:00 PM
Moville Community Center
815 Main St, Moville

SALIX
Mon., Nov. 9, 2026, 7:00 PM
Salix Community Center
317 Tipton St, Salix

More town halls to be added as needed.

YOU MAY SEND WRITTEN COMMENTS TO:
Email: dpriestey@woodburycountyiowa.gov
or mail: Planning & Zoning 620 Douglas St, 6th Floor Sioux City, IA 51101 / 712.279.6609

Amount Due

\$62.55

Social Media Advertisements

WOODBURY COUNTY ZONING COMMISSION
DATA CENTER TOWN HALL MEETINGS
Public input sought

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More town halls to be added as needed.

CAN'T ATTEND?
 Email: dpriestley@woodburycounty.iowa.gov or mail: Planning & Zoning
 620 Douglas St, 6th Floor
 Sioux City, IA 51101 / 712.279.6609

Posted to Facebook on August 21, 2026

Posted to X on August 21, 2026

WOODBURY COUNTY PLANNING AND ZONING
We want YOUR INPUT on data centers
 in preparation for the upcoming Town Hall Meetings

Email your comments about data centers to:
dpriestley@woodburycounty.iowa.gov

or mail:
 Planning & Zoning
 620 Douglas St, 6th Floor
 Sioux City, IA 51101 / 712.279.6609

Please submit comments on or before August 24, 2026 before 10:00 AM CDT.
 The Planning and Zoning Commission for the unincorporated area of Woodbury County is reviewing data centers and will recommend to the Board of Supervisors ways to facilitate the permitting application process through a zoning ordinance amendment or other ordinance. Public input is sought on potential requirements, regulations, zoning districts such as General Industrial (GI), and permitting methods such as a conditional use permit or similar process.

Posted to Facebook on August 14, August 4, 2026

Posted to X on August 21, August 4, 2026

WOODBURY COUNTY ZONING COMMISSION
DATA CENTER TOWN HALL MEETINGS
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CAN'T ATTEND? Email: dpriestley@woodburycounty.iowa.gov or mail: Planning & Zoning
 620 Douglas St, 6th Floor
 Sioux City, IA 51101 / 712.279.6609

Posted to Facebook on August 4, July 31, 2026

Posted to X on July 31, 2026

Posted to Woodbury County Website – News, 2026

Newspaper Advertisements

WOODBURY COUNTY ZONING COMMISSION
DATA CENTER TOWN HALL MEETINGS
Public input sought

The Planning and Zoning Commission for the unincorporated area of Woodbury County is reviewing data centers and will recommend to the Board of Supervisors ways to facilitate the permitting application process through a zoning ordinance amendment or other ordinance. Public input is sought on potential requirements, regulations, zoning districts such as General Industrial (GI), and permitting methods such as a conditional use permit or similar process.

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 or mail: Planning & Zoning 620 Douglas St, 6th Floor
 Sioux City, IA 51101 / 712.279.6609

Published in Danbury Review on August 19, 2026

WOODBURY COUNTY ZONING COMMISSION
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 Email: dpriestley@woodburycounty.iowa.gov
 or mail: Planning & Zoning 620 Douglas St, 6th Floor
 Sioux City, IA 51101 / 712.279.6609

Published in Sergeant Bluff Advocate on August 20, 2026

WOODBURY COUNTY ZONING COMMISSION
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 Email: dpriestley@woodburycounty.iowa.gov
 or mail: Planning & Zoning 620 Douglas St, 6th Floor
 Sioux City, IA 51101 / 712.279.6609

Published in Merville Record on August 13, 2026

Press Release on July 31, 2026

FOR IMMEDIATE RELEASE July 31, 2026

WOODBURY COUNTY ZONING COMMISSION TO HOLD PUBLIC TOWN HALL MEETINGS ON DATA CENTER ZONING ORDINANCE REGULATIONS FOR THE UNINCORPORATED AREA

WOODBURY COUNTY, IOWA — The Woodbury County Zoning Commission will host three initial public listening sessions to gather citizen input on potential amendments to the Woodbury County Zoning Ordinance regarding data center facilities in unincorporated areas. Additional meetings will be scheduled in other Woodbury County communities as needed.

The Zoning Commission is studying data centers with the mission to prepare a recommendation to the Board of Supervisors on how to facilitate the permitting application process in the Woodbury County Zoning Ordinance as a zoning ordinance text amendment or another ordinance. The Commission will be seeking input on potential requirements and regulations, as well as zoning districts (locations) such as the General Industrial (GI) Zoning District, and the permitting application process itself, such as a conditional use permit or a comparable mechanism.

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INITIAL TOWN HALL SCHEDULE & LOCATIONS:

1. **SLOAN TOWN HALL** Date & Time: Monday, August 31, 2026 at 7:00 PM Location: Sloan Community Hall Address: 423 Evans Street, Sloan, IA 51055
2. **MOVILLE TOWN HALL** Date & Time: Monday, September 21, 2026 at 7:00 PM Location: Moville Community Center Address: 815 Main Street, Moville, IA 51039
3. **SALIX TOWN HALL** Date & Time: Monday, November 9, 2026 at 7:00 PM Location: Salix Community Center Address: 317 Tipton Street, Salix, IA 51052

All interested residents, property owners, and stakeholders are strongly encouraged to attend and share their perspectives. You are also welcome to share your written comments and concerns by sending them to **Dan Priestley** at dpriestley@woodburycountyiowa.gov or to **Woodbury County Planning and Zoning**, 620 Douglas Street, Sixth Floor, Sioux City, IA 51101.

For further information, please contact **Dan Priestley, Zoning Coordinator, Woodbury County Planning and Zoning** at (712) 279-6609 or visit the county website at www.woodburycountyiowa.gov.

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Posted to Woodbury County Website – News on July 31, 2026

Posted to Facebook on July 31, 2026

Posted to X on July 31, 2026

Data Center Related Definitions

County	Population (2020)	Definitions
Adair	7,496	Data Center. A facility which (1) engages in storage (including cloud based storage), management, maintenance, processing, analysis, computing, hosting (including any form of high-compute applications) and/or transmission of digital data and/or (2) houses and/or provides space to house computing and/or networking equipment, hardware, systems, servers, appliances, associated components and/or digital infrastructure related to and/or utilized in the storage (including cloud based storage), management, maintenance, processing, analysis, computing, hosting (including any form of high-compute applications) and/or transmission of digital data. Property Line. The legal boundary between separately owned real estate parcels, and between privately owned parcels and publicly owned land or public right of way. Occupied Residence. A house, apartment or other structure designed for residential use that is the abode of a person, family or household and is regularly occupied. Occupied Building. A school, hospital, church, public library, pool, shelter house, tent, wedding venue or any other structure that is regularly occupied for private or public gatherings. Occupied Farm Building. A barn, shed, lot, pasture or any other structure or area that is regularly occupied by livestock. Occupied Area. A cemetery, park, campsite, trail, public recreation area or any other structure or area that is regularly occupied for private or public gatherings. Minimum Separation Requirements. The minimum required distance that must exist between a certain line, structure and/or area and a Data Center, or any part, component or appurtenance of a Data Center.
Allamakee	14,061	Cryptocurrency. Digital or virtual currency not issued by any central authority that is designed to function as a medium of exchange and that uses encryption technology to regulate the generation of units of currency, to verify fund transfers, and to prevent counterfeiting. Cryptocurrency mining. The commercial process by which cryptocurrency transactions are verified and added to the public ledger, known as the blockchain, and the means through which new units of cryptocurrency are released. Cryptocurrency Mining Center. A data center engaged in cryptocurrency mining. Data Center (also known as a High-Density Computing Facility): A permanent or temporary structure, such as a building, a cargo container or similar storage container, that houses or provides space to house a group of networked server computers in one physical location to centralize the storage, management, and dissemination of data and information about a particular topic, taxonomy, or body of knowledge. Large Scale Data Center (LDC): A data center with a maximum power capacity greater than 3MWs (Megawatts). An LDC typically houses 2000 or more servers. Micro Data Center (MDC): Also referred to as Edge Data Centers, a Micro Data Center is a small-scale or localized facility, often serving as an edge computing site or corporate enterprise data center, typically housing 500 to 2,000 servers, having a maximum power capacity equal to or less than 3 MWs (Megawatts). MDCs are designed as modular, highly-secure, or powered-shell units to support localized data needs. MDCs or buildings containing MDCs shall not be larger than 865 square feet. Sensitive Area: A geographic area defined by natural features where there is a significant risk of groundwater degradation due to human activities conducted at, under, or near the land surface. Sensitive areas include, but are not limited to, sinkholes, rivers, streams, creeks, natural springs, lakes, farm ponds, wetlands, karst topography, and fault zones.
Jackson	19,485	Accessory Use. A use or structure incidental and subordinate to the principal facility on the same parcel and serving a function customarily associated with the principal use. Board of Adjustment (BOA). The Jackson County Board of Adjustment as established under Chapter 4 of the Jackson County Zoning Ordinance. Closed-Loop Cooling System. A cooling system that recirculates coolant within a sealed system and does not rely on continuous withdrawal or discharge of groundwater or surface water during normal operation. Conditional Use Permit (CUP). The Board of Adjustment approval authorizing a High-Density Computing Facility as a conditional use under the Jackson County Zoning Ordinance. If the relevant zoning ordinance uses a different term (e.g., "Special Exception") for Board of Adjustment land-use approval, the term CUP in this ordinance shall be construed to mean the applicable Board of Adjustment approval. Corn Suitability Rating (CSR2). A soil-productivity index for low farmland used to compare the relative suitability of soils for row-crop production. CSR2 application, when required by this ordinance, shall be provided in a map and summary format acceptable to the Zoning Administrator. Expansion or Modification. Any structural, mechanical, or electrical alteration that increases total electrical service load, physical footprint, or operational capacity beyond that authorized under the most recent zoning permit or Board of Adjustment approval. Fully Enclosed Building. A permanent structure with a roof and four (4) fully enclosed walls. Doors and openings shall remain closed except for normal ingress/egress and maintenance. Roofed canopies, partially enclosed buildings, or screened enclosures do not qualify. High-Density Computing Facility (HDCF). A large-scale or cluster of structures housing servers, computer processors, or similar computing equipment that is designed, proposed, or operated at a total electrical service load of six hundred (600) amps or greater or any use-intensive site of two hundred fifty (250) kW or greater, as identified in an application materials, utility-service documentation, or other information acceptable to the Zoning Administrator. Examples include cryptocurrency mining, artificial-intelligence training, data-processing, cloud-computing, or similar computational operations. Thresholds are based on regional utility data showing step-change impacts to local grid reliability above this service level. The term includes facilities commonly referred to as data centers, cryptocurrency mining operations, or similar computing-intensive uses whether primary or accessory in nature. Hydro-Cooling System. A closed-loop or water-based heat-exchange system used for temperature control of computing equipment. Known Map Sensitive Area. A sensitive environmental, cultural, hydrologic, scenic, or geologic resource identified in County, state, or federal mapping, records, or reports, including but not limited to wetlands, floodplains, sinkholes, karst features, protected water resources, conservation areas, mapped burial or archaeological sensitivity areas, bluffs, scenic byway viewsheds, or other mapped natural-resource areas. Noise Level (dBA). Sound-pressure level measured with an A-weighted filter and slow-response time constant in accordance with ANSI S12.9 (Parts 1 & 3) and IEC 61672-1. Type 1 sound-level meter standards. Nonparticipating Parcel. A parcel that is not owned, leased, controlled, or otherwise subject to a written agreement with the High-Density Computing Facility applicant, owner, or operator to permit occupancy, site use, construction, setup, access, or related project approval. [Revised from 5/18/2026 draft] Occupied Structure. Any building or structure designed for or regularly used by humans for habitation, employment, assembly, education, worship, or shelter, whether permanent or seasonal. Operator. The individual, company, partnership, corporation, or other legal entity that owns, leases, controls or operates the project, maintenance, and/or operation of a High-Density Computing Facility. Owner. The person, partnership, corporation, trust, or other legal entity having title to the real property on which a High-Density Computing Facility is located, as recorded with the County Recorder. Peak Particle Velocity (PPV). The maximum instantaneous velocity of ground vibration, expressed in millimeters per second (mm/s), as measured by a tri-axial accelerometer per DIN 4150-3 or BS 7385-2 standards. Road Use Agreement (RUA). A written agreement between the facility operator/applicant and the Jackson County Engineer (or other road authority having jurisdiction), establishing designated haul routes, access points, traffic measures, and the operator's obligations for maintenance, repair, and restoration of public road infrastructure impacted by facility-related traffic. Surface Water. Any water body located on the surface of the land, including rivers, streams, creeks, ponds, lakes, drainageways, wetlands and other waters regulated by the Iowa Department of Natural Resources (IDNR). Utility Provider. The electric utility (including an investor-owned public utility, municipal utility, or electric cooperative) that is lawfully authorized to provide retail electric service to the subject property, or its designated agent, and that will supply primary electric power to the High-Density Computing Facility. Utility Service Coordination Letter. Written documentation from the applicable Utility Provider, or its documentation acceptable to the Zoning Administrator, confirming that the applicant has contacted the Utility Provider regarding the proposed facility's anticipated electrical service needs and identifying any known service extensions, upgrades, easements, substations, transmission or distribution improvements, or related utility infrastructure improvements necessary to serve the proposed use. The letter is for land-use and site-feasibility review only and shall not be construed as County regulation of utility capacity, rates, service territory, interconnection requirements, or system operations.
Jones	20,646	Clean agent fire suppression system: A system that uses electrically nonconductive gaseous agents that do not leave residue upon evaporation to extinguish fires. Closed-loop cooling system: A sealed system where a coolant circulates continuously, absorbing heat from a source, and then transferring that heat to a heat exchanger for removal, without the coolant ever being exposed to the environment. Commercial cryptocurrency mining: The commercial process by which cryptocurrency transactions are verified and added into the blockchain, and the means through which new units of cryptocurrencies are released through the use of server farms. Any equipment requiring a high-density load service, for the purposes of operating a cryptocurrency mining server farm, will constitute a commercial cryptocurrency mining operation.

County	Population (2020)	Definitions
		Cryptocurrency: A digital currency in which cryptography techniques are used to regulate the generation of units of currency and to verify the transfer of funds while operating independently of a central bank. Cryptocurrency data center: Leased or owned boundaries of floor space devoted to the operating data processing equipment for commercial cryptocurrency mining; excludes spaces for data centers not otherwise engaged in commercial cryptocurrency mining, commercial offices, storage, shipping and receiving, warehousing, or any other space that is not electronic processing. Cryptocurrency server farm: Three or more interconnected computers housed together in a single facility (either air-cooled or water-cooled), whose primary function is to perform cryptocurrency mining or associated data processing. Data mining: The commercial process by which volumes of data are analyzed to find patterns, discover trends, and gain insights into how light may interact in a way that is used and will constitute a commercial data mining operation. High-density load service: Any individual service at or above 660 amps in which the energy use intensity (EUI) is calculated as greater than 250 kBtu/ft²/year the total for all operating square footage. Liquid cooling system: A method of cooling electronic components or other devices by circulating liquid coolant through them to cool and absorb heat produced during operations and then discharge that heat through a heat exchanger.
Linn	230,299	Data center means a facility consisting of one or more buildings (whether constructed simultaneously or in separate phases) used primarily for the storage, management, processing, and transmission of digital data, which houses computer or network equipment, systems, servers, appliances, and other associated components related to digital data storage and operations. Data center includes commercial cryptocurrency mining operations and processing. Small-scale data center means a data center that has an electrical design capacity of 20 MW or less, and that uses less than 50 gallons per minute of water or less on an annualized basis. For the purposes of determining compliance with power and water usage thresholds in this ordinance, all data center buildings that are part of a phased or multi-building campus shall be evaluated in the aggregate, regardless of whether such buildings are constructed simultaneously or in separate phases. Large-scale data center means a data center that has an electrical design capacity greater than 20 MW or that uses more than 50 gallons per minute of water on an annualized basis. For the purposes of determining compliance with power and water usage thresholds in this ordinance, all data center buildings that are part of a phased or multi-building campus shall be evaluated in the aggregate, regardless of whether such buildings are constructed simultaneously or in separate phases. Places of Public Assembly means buildings or facilities where people gather for civic, educational, religious, cultural purposes, including, but not limited to retirement and nursing homes, schools, child care homes and centers, group homes, hospitals, detention facilities, or human service facilities, not including facilities allowed as an accessory use to the principal use in question.
Muscatine	43,235	Cryptocurrency mining or production installations and Data Center: A physical facility that uses computing and networking equipment to collect, store and process data, as well as distribute and access resources. It may also include supporting equipment such as batteries, back-up generators and cooling equipment.
Osceola	6,192	DATA CENTER, A building or other structure rehabilitated or constructed to house a group of networked server computers in one physical location in order to centralize the storage, management, and dissemination of data and information pertaining to a particular business, taxonomy, or body of knowledge. A data center provides computer processing for uses including but not limited to cloud storage, cryptocurrency mining, and artificial intelligence. "Data Center" also includes the lease of a business facility leased by an entity that operates a data center.
Story	98,537	Accessory BESS (Co-located) means a battery energy storage system that is ancillary to another primary use of the property. Examples include a BESS co-located with a renewable energy generation facility (solar or wind farm) to store generated electricity for on-site use (peak shaving, backup power), or batteries providing electric grid services at an existing substation. An accessory BESS is subordinate in size and purpose to the main use on the site. These are also often referred to as Hybrid BESS. Agrivoltaics or Agrivoltaic Projects means solar sites that combine agricultural uses with generating electricity within the project area to maximize land use and offering mutual production benefits. ANSI means the American National Standards Institute. Augmentation means the process of supplementing or replacing some or all of the system components to maintain the nameplate capacity (measured in megawatts). Battery Energy Storage Management System means an electronic system that protects energy storage systems from operating outside their safe operating parameters and disconnects electrical power to the energy storage system or places it in a safe condition if potentially hazardous temperatures or other conditions are detected. Battery Energy Storage System (BESS) means one or more devices, assembled together, capable of storing and discharging electricity primarily intended to supply electricity to a building or to the electrical grid. This includes, but is not limited to, the following: battery cells; enclosed and dedicated-use buildings; thermal, battery, and energy management system components; inverters; access roads; distribution, collection, and feeder lines; wires and cables; conduit; footings; foundations; towers; poles; crossarms; guy lines and anchors; substations; interconnection or switching facilities; circuit breakers and transformers; overhead and underground control, communications and radio relay systems, and telecommunications equipment; utility lines and installations; and accessory equipment and structures. A BESS does not include a stand-alone 12-volt car battery or an electric motor vehicle. A BESS is classified as a Tier 1 or Tier 2 (Utility Scale) BESS as follows: a. Tier 1 BESS have an aggregate energy capacity less than or equal to 600kWh and, if in a room or enclosed area, consist only of a single energy storage system technology. b. Tier 2 (Utility Scale) BESS have an aggregate energy capacity greater than 600kWh or are comprised of more than one storage battery technology in a room or enclosed area. BESS Dedicated-Use Building means a building or structure that is only used for BESS components and equipment, is classified as Group F-1 occupancy, as defined in the International Building Code, and complies with the following: a. The building's only use is battery energy storage, energy generation, and other electrical grid-related operations. b. No other occupancy types are permitted in the building. c. Occupants in the rooms and areas containing BESS are limited to personnel that operate, maintain, test, or repair the BESS and other energy systems. d. Administrative and support personnel are permitted in areas within the buildings that do not contain BESS, provided that these areas do not occupy more than ten (10) percent of the building area of the story in which they are located, and a means of egress is provided from the administrative and support use areas to the public way that does not require occupants to traverse any other containing BESS or other energy systems footprint. BESS Participating Property means a BESS host property or any real property that is the subject of an agreement that provides for the payment of monetary compensation to the landowner from the BESS owner (or affiliate) regardless of whether any part of a BESS is constructed on the property. Clean Agent Fire Suppression System means a system that uses electrically nonconductive gaseous agents that do not leave residue upon evaporation to extinguish fires. Closed-Loop Cooling System means a sealed system where a coolant circulates continuously, absorbing heat from a source, and then transferring that heat to a heat exchanger for removal, without the coolant ever being exposed to the environment. A closed-loop system shall not use evaporative cooling. It may consist of methods including, but not limited to, air-cooled (dry) cooling, rear-door heat exchanger cooling, hybrid dry economizer cooling, direct-to-chip cooling, or immersion cooling. Commercial Cryptocurrency Mining means the commercial process by which cryptocurrency transactions are verified and added to the public ledger, known as the block chain, and the means through which new units of cryptocurrencies are released through the use of server farms. Any equipment requiring a high-density load service, for the purposes of operating a cryptocurrency mining server farm, will constitute a commercial cryptocurrency mining operation.

Sample Data Center Ordinances in Iowa (Draft and Effective)

ADAIR COUNTY, IOWA

Adair County Ordinance # _____
AN ORDINANCE REGULATING THE PLACEMENT OF
DATA CENTERS ON PROPERTY LOCATED IN
ADAIR COUNTY, IOWA

BE IT ENACTED BY THE ADAIR COUNTY BOARD OF SUPERVISORS:

Purpose and Intent

The purpose of this Ordinance is to establish appropriate conditions and safeguards of any use of land for the purpose of a Data Center in Adair County, Iowa.

The intent of this Ordinance is to facilitate the location, construction, installation, operation and decommissioning of any Data Center in Adair County, Iowa in a manner that protects and preserves the rights, privileges and property of the County and its residents, preserves and improves peace, safety, health, welfare, comfort and convenience of its residents and provides an opportunity for economic growth and development.

All Data Centers must follow this Ordinance.

Section 1. Definitions.

Data Center: A facility which (1) engages in storage (including cloud based storage), management, maintenance, processing, analysis, computing, hosting (including any form of high-compute applications) and/or transmission of digital data and/or (2) houses and/or provides space to house computing and/or networking equipment, hardware, systems, servers, appliances, associated components and/or digital infrastructure related to and/or utilized in the storage (including cloud based storage), management, maintenance, processing, analysis, computing, hosting (including any form of high-compute applications) and/or transmission of digital data, hosting (including any form of high-compute applications) and/or transmission of digital data.

Property Line: The legal boundary between separately owned real estate parcels, and between privately owned parcels and publicly owned land or public right of way.

Occupied Residence: A house, apartment or other structure designed for residential use that is the abode of a person, family or household and is regularly occupied.

Occupied Building: A school, hospital, church, public library, pool, shelter house, shed, wedding venue or any other structure that is regularly occupied for private or public gatherings.

Occupied Farm Building: A barn, shed, lot, pasture or any other structure or area that is regularly occupied by livestock.

Occupied Area: A cemetery, park, campsite, trail, public recreation area or any other structure or area that is regularly occupied for private or public gatherings.

Minimum Separation Requirements. The minimum required distance that must exist between a certain line, structure and/or area and a Data Center, or any part, component or appurtenance of a Data Center.

Section 2. Separation Requirements. A Data Center, or any part, component or appurtenance thereof, shall not be sited, located, constructed, installed, used and/or operated in violation of the Separation Requirements listed below.

Line, Structure and/or Area	Separation Requirements
Property Line	660 feet
Occupied Area	1,320 feet
Occupied Farm Building	1,320 feet
Occupied Building	1,600 feet
Occupied Residence	1,600 feet

Section 3. Severability. If, for any reason, any part, section, subsection, sentence, clause or phrase of this ordinance, or the application thereof to any person or circumstances is declared to be unconstitutional or invalid, such decision shall not affect the validity of the remaining portions of this ordinance.

Section 4. Penalty. Any person, persons, firms, partnerships or corporations, whether acting alone or in concert with any other, who violates this Ordinance, shall be guilty of a simple misdemeanor as authorized by Iowa Code section 331.302.

Section 5. Effective Date. This Ordinance shall be in force and effect from and after its passage, approval and publication as provided by law.

ALLAMAKEE COUNTY, IOWA

Amendment #20 to Zoning Ordinance L.

AN AMENDMENT TO THE ALLAMAKEE COUNTY ZONING
ORDINANCE L TO ADD REQUIREMENTS FOR DATA CENTERS

SECTION 1. PURPOSE

The purpose of this Amendment is to establish the minimum requirements for and regulation of any applicant/developer/owner engaged in the construction, erection, placement, location, maintenance, modification, operation, and/or decommissioning of Data Centers in Allamakee County in a manner that preserves and protects the rights, privileges, and property of the county and its residents, that ensures the protection of the health, safety, and welfare of the county's residents, and that provides an opportunity for economic growth and development.

SECTION 2. DEFINITIONS

Cryptocurrency: Digital or virtual currency not issued by any central authority that is designed to function as a medium of exchange and that uses encryption technology to regulate the generation of units of currency, to verify fund transfers, and to prevent counterfeiting.

Cryptocurrency mining: The commercial process by which cryptocurrency transactions are verified and added to the public ledger, known as the blockchain, and the means through which new units of cryptocurrency are released.

Cryptocurrency Mining Center: A data center engaged in cryptocurrency mining.

Data Center (also known as a High-Density Computing Facility): A permanent or temporary structure, such as a building, a cargo container or similar storage container, that houses or provides space to house a group of networked server computers in one physical location to centralize the storage, management, and dissemination of data and information about a particular business, taxonomy, or body of knowledge.

Large Scale Data Center (LDC): A data center with a maximum power capacity greater than 3MWs (Megawatts). An LDC typically houses 2000 or more servers.

Micro Data Centers (MDC): Also referred to as Edge Data Centers, a Micro Data Center is a small-scale or localized facility, often serving as an edge computing site or corporate enterprise data center, typically housing 500 to 2,000 servers, having a maximum power capacity equal to or less than 3 MWs (Megawatts), and designed as modular, high-security, or powered-shell units to support localized data needs. MDCs or buildings containing MDCs shall be no larger than 865 square feet.

Sensitive Area: A geographic area defined by natural features where there is a significant risk of groundwater degradation from action activities conducted at, under, or near the land surface. Sensitive areas include, but are not limited to, sinkholes, rivers, streams, creeks, natural springs, lakes, farm ponds, wetlands, karst topography, and public water supplies.

SECTION 3. CLASSIFICATIONS

Micro Data Centers (MDCs) are prohibited in Allamakee County outside of the following districts: A-1 Agricultural District, C-1 Commercial District, I-1 Limited Industrial District, and I-2 General Industrial District, and shall require issuance of a building permit prior to creation.

Large Data Centers (LDCs) are prohibited in Allamakee County, except as permitted by Conditional Use in the I-2 General Industrial District and shall require issuance of a building permit prior to creation.

MDCs and LDCs are strictly prohibited from using groundwater or surface water for cooling purposes. Air-cooled or closed-loop, non-evaporative systems shall be the only cooling methods allowed for MDCs or LDCs in Allamakee County.

No MDC in Allamakee County shall be located less than five (5) miles from another MDC within the county.

No LDC in Allamakee County shall be located less than twenty (20) miles from another LDC within the county.

SECTION 4. GENERAL APPLICATION REQUIREMENTS

MDC and LDC Application. Applications for an MDC and LDC must identify all owners and leaseholders of the property and the operator of the proposed MDC and LDC site. The application shall be submitted to the Allamakee County Zoning Administrator. Each application shall contain, at minimum, all of the following:

1. **Identity.** The full identity and contact information for all owners/leaseholders/operators of the proposed data center.
2. **Project Description.** A description of the project, including development timeline, location of proposed buildings and parking areas, and the approximate number of anticipated employees.
3. **Height.** MDCs and LDCs shall comply with the building height limitations set forth for principal structures in the underlying zoning district.
4. **Setbacks.** MDCs shall maintain a minimum five hundred (500) feet setback from dwellings, mobile homes, cabins, and occupied community buildings and comply with NFPA 75, *Standards for the Fire Protection of Information Technology Equipment* requirements related to setbacks and buffers, with the more restrictive setback/buffer applied. Property line setbacks shall be the same as required for principal structures in the underlying zoning district, in which the MDC is located.
5. **Fencing Requirements.** All fencing shall be constructed and maintained in accordance with the requirements set forth in Section 110 of the National Electric Code. Fencing shall be constructed and maintained in good condition, as determined by the Allamakee County Zoning Administrator, throughout the life of the project. Fences, gates and warning signs must be maintained in good condition until the MDC or LDC is dismantled and removed from site.
6. **Landscaping.** All areas within fifty (50) feet of the MDC or LDC site shall be cleared of combustible vegetation and other combustible growth and remain cleared as long as the MDC or LDC remains.
7. **Signage.** Signage shall follow ANSI Z535 and shall include the following information:
 - a. The type of technology associated with the MDC or LDC, and any special hazards associated with the MDC or LDC;
 - b. The type of fire suppression system installed in and around the MDC or LDC; and
 - c. 24-hour emergency contact information as required by the National Electric Code (NEC), disconnect and other emergency shutoff information shall be clearly and prominently displayed on a light reflective surface. A clearly visible warning sign concerning voltage shall be placed at the base of all pad-mounted transformers and substations.

8. **Noise.** The 1-hour average noise generated from the MDC or LDC, or any of its components, or associated ancillary equipment shall not exceed a noise level of fifty-five (55) dBA or sixty (60) dBC as measured outside of any non-participating dwelling, cabin, mobile home, or occupied community building or the property line, whichever is closer. Applicants shall submit equipment and component manufacturer noise ratings at the time of application to demonstrate compliance.
- a. At the discretion of the Zoning Administrator, the applicant may be required to provide Operating Sound Pressure Level measurements before and after construction from a few sampled locations, to be determined by the Zoning Administrator, at the perimeter of a comparable MDC or LDC to demonstrate compliance with this standard.
- b. The applicant may be required to document the decibel level if there is a complaint on an operational system. At the discretion of the Zoning Administrator, the owner shall commission a report providing Operating Sound Pressure Level measurements from a reasonable number of sampled locations, to be determined by the Zoning Administrator, at the outside wall of any non-participating dwellings, cabins, mobile homes, occupied community building, or the property line to demonstrate compliance with this standard.
- c. The average hourly decibel level of both dBA and dBC may be exceeded during short-term events such as severe windstorms.
9. **Backup Power Plan.** A description of a backup power plan, describing the fuel source and expected usage of any standby, backup, or temporary power generation systems, shall be required. The plan shall identify the anticipated number and size of generators or other power units, anticipated testing frequency and duration, anticipated noise and emission control measures, and anticipated fuel storage or delivery methods. The plan shall certify that the data center will remain in strict compliance with all applicable local, state, and federal permitting requirements.
- a. Any diesel generators used shall be Tier IV backup generators.
- b. Natural Gas Turbines shall use attached Selective Catalytic Reduction (SCR) units and shall use ammonia, not urea, as the catalyst. All gas turbines must meet state and federal emission standards.
10. **Site Plan.** A site plan shall be submitted showing preliminary structure details and location, fencing details and location, landscaping plan, signage, location of underground and above ground transmission facilities, project development timeline, and any other pertinent information as required by the Zoning Administrator. Prior to issuance of any building permit(s), the Zoning Administrator may approve minor modifications to the preliminary site plan to account for reasonable engineering optimization and final selection of equipment. The site plan application shall additionally include and conform to the following:
- a. Power and Communications Lines.
- i. On-site power and communications lines between MDC or LDC units shall be placed underground to the extent feasible and as permitted by the serving utility. The main service connection at the utility company right-of-way, and any new interconnection equipment, may be located above ground.
- ii. New power and communications lines running from the on-site system(s) to interconnections with structures off-site shall be buried underground to the extent feasible and as permitted by the serving utility.
- iii. At the discretion of the approving authority, power and communications lines may be allowed to be unburied in the following circumstances:

1. When elements of the natural landscape, such as but not limited to shallow bedrock and water courses, and/or existing infrastructure, interfere with the ability to bury lines.
2. When distance makes placing the lines underground infeasible.
- b. An electrical diagram detailing the MDC or LDC layout, associated components, and electrical interconnection methods, in compliance with National Electrical Code disconnects and overcurrent devices.
- c. A preliminary equipment specification sheet that documents the proposed MDC or LDC components, inverters and associated electrical equipment that are to be installed. A final equipment specification sheet shall be submitted before the issuance of building permit(s).
- d. The name, address, and contact information of the proposed system installer and the owner and/or operator of the MDC or LDC. The identity of the final system installer shall be submitted before issuance of the building permit(s).
- e. MDCs or LDCs shall comply with the latest published version of The National Fire Protection Association (NFPA) 75 and 76, the *Standard for the Fire Protection of Information Technology Equipment and Standards for the Fire Protection of Telecommunications Facilities* as of the date of the submission of the application.
11. **Operations and Maintenance Manual.** The applicant shall provide an ongoing maintenance schedule for the MDC or LDC, as well as for the general upkeep of the property.
12. **Fire Safety Compliance Plan.** The applicant shall document and describe how the fire safety system and its associated controls will function and be maintained in proper working conditions.
13. **Ice Mitigation Plan.** The applicant shall provide an ice mitigation plan concurrent with the applicant's describing the policies and procedures to be followed to prevent the buildup of ice on neighboring properties and roadways.
14. **Insurance.** Evidence of general liability insurance coverage shall be submitted to the Zoning Administrator, prior to commencement of any construction in Allamakee County. The evidence of general liability insurance shall be in the form of a certificate of insurance satisfactory to the Zoning Administrator, and shall show general liability insurance coverage for the installation and operation of the MDC, LDC, or coverage of such specifically provided under a homeowner's or business owner's insurance policy.
15. **Proposed Electric Consumption Verification.** Written verification from the MDC's or LDC's proposed power provider, stating the applicant, has calculated the maximum planned electrical consumption of the proposed use and has verified the utility supply and related electrical infrastructure is sufficient to accommodate the applicant's proposed use.

SECTION 5 ADDITIONAL LARGE DATA CENTER (LDC) REQUIREMENTS

All LDCs are subject to the requirements outlined above in Section 4. General Application

Requirements, in addition to the following:

1. **Setbacks.** LDC setbacks shall comply with NFPA 75 and 76 requirements related to setbacks and buffers, or said setbacks below, whichever is greater. All other setbacks and buffer requirements dictated by NFPA 75 and 76 shall be followed/adhered to.
 - a. 200 feet to property lines.
 - b. 1000-foot setback from dwellings, mobile homes, cabins, and the outermost wall of a place of public assembly.
2. **Site and structure requirements, including:**
 - a. Stormwater management plan.
 - b. Stormwater pollution prevention plan.
 - c. Erosion and sediment control plan.
 - d. All LDC production equipment (computers, servers, etc.) shall comply with currently recognized Iowa State Building Code requirements. Said structure(s) shall be placed on a permanent foundation.
3. **Lighting Plan.** A lighting plan shall be submitted providing details of the light spread and intensity, diagrams, fixture specifications, and mounting height details. Any lighting used for outdoor illumination on the property shall be full cut-off fixtures so that light does not shine upward nor adversely impact adjoining property. Outdoor lighting for LDCs shall adhere to a lighting schedule agreed upon by the applicant and board members during the Conditional Use Permit procedure.
4. **Water Quality Protections:** LDCs shall not be built within 1000 feet of a known mapped sensitive area and shall not be built within 1500 feet of a sinkhole. LDCs built within ½ mile of a known sensitive area must adhere to a water protection plan, which shall include the installation and maintenance of a buffer strip of perennial grasses and/or native trees with a minimum 30-foot width around the sensitive area. The installation of the buffer around the sensitive area shall be performed by the Natural Resources Conservation Service (NRCS) or an approved 3rd party qualified to install and maintain buffers that control runoff. Reports of compliance shall be provided to the Zoning Administrator at the time of completion and every three years thereafter. The cost of installation and maintenance of the buffer around the sensitive area shall be incurred by the LDC owner. Any State of Iowa or a Federal Regulatory Agency water quality restriction which is more restrictive than that provided in this ordinance shall supersede this portion of the ordinance.
5. **State and National Byway Visual Resource Protections and Intrinsic Area Resource Protections:** No LDC shall be allowed within the viewshed or 1 miles, whichever is greater, of the center line from each side of a Scenic Byway. It is recognized that Allamakee County, Iowa has a Driftless Scenic Byway that traverses east and west across the county, and The National Great River Road, which runs north and south through the county.
6. **Development Buffers around Incorporated City Limits:** No LDC shall be built within 2 miles of an incorporated city limit. The purpose of this buffer is to prevent locking up prime land for potential city expansion.
7. **Economic Development Agreement:** Before or contemporaneously with the

- rezoning to the I-2 zoning district, the applicant for a large-scale data center (LDC) shall enter into an Economic Development Agreement ("EDA") with the County, approved by the Allamakee County Board of Supervisors. The purpose of the EDA is to establish ongoing cooperation between the County and the project operator, a description of any incentives that the project operator will receive (subject to the terms of the EDA), and to provide ongoing contributions that advance the County's fiscal, infrastructure, and community goals related to hosting LDC facilities. The County shall retain full reasonable discretion to determine the form, structure, and use of funds or benefits provided under any EDA. At a minimum, the agreement shall provide for the creation of a Community Betterment Fund or similar mechanism to support public infrastructure, services, environmental protection, workforce development, or other community benefits, as determined by the Board of Supervisors. Additionally, as part of the EDA, the applicant shall consider implementing a Property Value Protection Plan. The purpose of the Property Value Protection Plan is to address potential impacts to nearby residential property values associated with the development and operation of the LDC. Nothing in this section shall limit the County's authority to negotiate terms appropriate to the scale, location, and nature of a specific project, or to enter into separate agreements addressing road use, infrastructure improvements, or other matters related to the development of the LDC.
8. **Fire Safety Compliance Plan**
 - a. Applicant shall be responsible for ensuring that firefighters of the designated area are site-specifically trained and equipped in accordance with current NFPA standards.
 - b. An applicant shall have a minimum of one meeting annually with local fire department(s), the Allamakee County Sheriff Department, and Allamakee County Emergency Management to go over updates related to emergencies, preparedness, and procedures, and any changes to the Operations and Maintenance Manual and Emergency Operations Procedures.
 9. **Emergency Operations Plan.** A copy of the approved Emergency Operations Plan shall be provided to the system owner, the local fire department(s), the Allamakee County Sheriff's Office, and Allamakee County Emergency Management. A copy shall also be placed in an approved location on-site to be accessible to facility personnel, fire code officials, and emergency responders. The Emergency Operations Plan shall include at a minimum the following information:
 - a. Procedures for safe shutdown, de-energizing, or isolation of equipment and systems under emergency conditions to reduce the risk of fire, electric shock, and personal injuries, and for a safe start-up following cessation of emergency conditions.
 - b. Procedures for inspection and testing of associated alarms, interlocks, and controls.
 - c. Procedures to be followed in response to specifically identified alerts from the LDC.
 - d. Identification of management systems that could signify potentially dangerous conditions, including shutting down equipment, summoning service and repair personnel, and providing agreed-upon notification to fire department personnel for potentially hazardous conditions in the event of a system failure.

10. **Roads.** Applicants shall take measures to avoid damaging public roads and shall be responsible for the mitigation of damage to public roads. At the discretion of the Allamakee County Engineer, a "Public Roads Damage Avoidance and Mitigation Plan" shall be required and be in accordance with the following standards:
- Identification of Potential Roads Usage.** The applicant shall identify, in consultation with the Allamakee County Engineer, all state and local roads to be used within Allamakee County to transport equipment, parts, and materials for the construction, operation or maintenance of the LDC and related components.
 - Documentation of Road Conditions.** Before construction, the Allamakee County Engineer shall document the current road conditions of the roads identified for use, with all associated costs of such being to the applicant. The County Engineer shall document the road conditions again within thirty (30) days after construction is complete, weather permits.
 - Road Preparation and Damage.** Any road preparation or maintenance necessitated by the proposed LDC or damage caused by the applicant or its contractors during construction or decommissioning shall be completed or repaired within 9 months of completion of construction or decommissioning, at the applicant's expense. Emergency repairs will be initiated by the Allamakee County Engineer, which may be necessary to restore traffic daily, and the costs thereof assessed to applicant.
 - The applicant shall demonstrate that it has appropriate financial resources to ensure repair of damaged roads.
12. **Decommissioning and Site Reclamation Plan.** A Decommissioning and Site Reclamation Plan shall address and/or ensure the following standards:
- Disposal of all solid and hazardous waste in accordance with local, state, and federal waste disposal regulations.
 - The anticipated life of the LDC.
 - The estimated decommissioning costs and method of ensuring funds will be available.
 - The manner in which the site will be restored, including a description of how any changes to the surrounding areas and other systems adjacent to the LDC, such as, but not limited to, structural elements, building penetrations, means of egress, and required fire detection suppression systems, will be protected during decommissioning and confirmed as being acceptable after the system is removed.
 - A listing of any contingencies for removing an intact operational LDC from service, and for removing an LDC from service that has been damaged by a fire or other damaging event.
 - That following a continuous one-year period in which there is no activity at the LDC, the permit holder will have one year to complete the decommissioning of the LDC. At the discretion of the Zoning Administrator, the continuous one-year period that triggers decommissioning may be extended if the applicant demonstrates an ongoing commitment to the project through activities such as making lease payments or documentation of ongoing maintenance or repairs.
 - Decommissioning shall be completed in accordance with the approved decommissioning plan.
 - The landowner or tenant shall notify the Zoning Administrator both when the project is discontinued and when decommissioning is complete.

- At the discretion of the Board of Adjustments, financial surety may also be required.

SECTION 6. TIMELINE

Within 45 days following the Zoning Administrator's receipt of a completed application for an LDC, the Zoning Administrator shall hold a Public Informational Meeting at a regularly scheduled Board of Adjustments meeting. All property owners within two thousand (2000) feet of the property for which the Conditional Use is being requested shall be contacted, prior to the Public Information Meeting, to inquire as to their approval or disapproval of said permit, and notify them of the time and place of the meeting. The applicant has the option to be in attendance at said meeting to address any questions the public/notified property owners may have. A Public Notice of Informational Meeting for an LDC site will be published in the newspapers of record 4-20 days before the Board of Adjustments meeting.

If any section, provision, sentence, clause, phrase, or part of this Amendment shall be adjudged invalid or unconstitutional, such adjudication shall not affect the validity of the Amendment as a whole or any section, provision, sentence, clause, phrase, or part not adjudged invalid or unconstitutional.

This Amendment shall be in full force and effect from and after its final passage, approval, and publication as provided by law.

First Reading: March 30, 2026

Second Reading: April 6, 2026

Third Reading: April 13, 2026

Amendment #20 to County Ordinance L (the Allamakee County Zoning Ordinance) is hereby approved and adopted on this 13 day of April 2026

Thomas Clark

Thomas Clark, Chairman, Allamakee County Board of Supervisors

Daniel Byrnes

Daniel Byrnes, Member, Allamakee County Board of Supervisors

Dennis Keatley

Dennis Keatley, Member, Allamakee County Board of Supervisors

JACKSON COUNTY, IOWA

**JACKSON COUNTY ORDINANCE # _____
HIGH-DENSITY COMPUTING FACILITIES (HDCF) ORDINANCE**

Be it enacted by the Board of Supervisors of Jackson County, Iowa:

This ordinance is adopted pursuant to the powers granted to counties under Iowa Code Chapters 331 and 335, and in accordance with Iowa Code § 331.302, which authorizes counties to enact ordinances and to incorporate by reference applicable state and federal regulations or technical standards.

It is the intent of the Jackson County Board of Supervisors that this ordinance operate in harmony with all applicable state and federal laws, rules, regulations, codes, permits, and technical standards, including but not limited to the Iowa Administrative Code, the Iowa Code, and nationally recognized standards such as NFPA, ANSI, and IEC.

All referenced codes and standards shall be deemed to include their most current versions, as amended from time to time, as provided in Section 17(E) of this ordinance.

Compliance with these standards does not supersede, duplicate, or limit the authority of the State Fire Marshal, IDNR, or any other agency having jurisdiction under applicable law.

Section 1. Purpose and Intent

This ordinance is adopted under the authority of Iowa Code Chapters 331 and 335 for the purpose of protecting the public health, safety, and welfare of Jackson County residents. This ordinance is adopted in accordance with and in furtherance of the Jackson County Land Use Policy and the Jackson County Comprehensive Plan.

The purpose of this ordinance is to regulate the siting and land use impacts of High-Density Computing Facilities (HDCFs) in order to promote compatibility with surrounding land uses, protect public infrastructure, preserve agricultural land and natural resources, and reduce the risk of adverse impacts associated with the siting, construction, and operation of such facilities.

Because HDCFs may involve substantial electrical demand, continuous equipment operation, cooling systems, and large-scale site improvements, these regulations are intended to ensure that such uses are considered only in appropriate locations and under standards addressing location, setbacks, site design, infrastructure coordination, resource protection, and decommissioning.

These regulations are further intended to support orderly development patterns and discourage scattered or incompatible rural industrial development consistent with the Jackson County Land Use Policy and Comprehensive Plan.

Section 2. Definitions

Abatement. Any corrective action taken to reduce, mitigate, or eliminate an identified violation of this ordinance, including but not limited to operational adjustments, physical modifications, removal of violating materials or equipment, site restoration, or other corrective action authorized by law.

Abandoned Facility. A facility that ceases active operations for more than one (1) year without written notice to the County and without an approved plan to return the facility to active operation, unless cessation is due to force majeure, utility outage, court order, or an approved temporary suspension.

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Accessory Use. A use or structure incidental and subordinate to the principal facility on the same parcel and serving a function customarily associated with the principal use.

Board of Adjustment (BOA). The Jackson County Board of Adjustment as established under Chapter 4 of the Jackson County Zoning Ordinance.

Closed-Loop Cooling System. A cooling system that recirculates coolant within a sealed system and does not rely on continuous withdrawal or discharge of groundwater or surface water during normal operation.

Conditional Use Permit (CUP). The Board of Adjustment approval authorizing a High-Density Computing Facility as a conditional use under the Jackson County Zoning Ordinance. If the then-current zoning ordinance uses a different term (e.g., "Special Exception") for Board of Adjustment land-use approval, the term CUP in this ordinance shall be construed to mean the applicable Board of Adjustment approval.

Corn Suitability Rating (CSR2). A soil-productivity index for Iowa farmland used to compare the relative suitability of soils for row-crop production. CSR2 information, when required by this ordinance, shall be provided in a map and summary format acceptable to the Zoning Administrator.

Expansion or Modification. Any structural, mechanical, or electrical addition or alteration that increases total electrical service load, physical footprint, or operating noise beyond that authorized under the most recent zoning permit or Board of Adjustment approval.

Fully Enclosed Building. A permanent structure with a roof and four (4) fully enclosed walls. Doors and openings shall remain closed except for normal ingress/egress and maintenance. Roofed canopies, partially enclosed buildings, or screened enclosures do not qualify.

High-Density Computing Facility (HDCF). A facility or group of structures housing servers, computer clusters, processors, or similar computing equipment that is designed, proposed, or operated at a total electrical service load of six hundred (600) amps or greater and/or an energy-use intensity of two hundred fifty (250) kWh per square foot per year or greater, as identified in application materials, utility-service documentation, or other information acceptable to the Zoning Administrator.

Examples include cryptocurrency mining, artificial-intelligence training, data-processing, cloud computing, or similar computational operations. Thresholds are based on regional utility data showing step-change impacts to local grid reliability above this service level.

The term includes facilities commonly referred to as data centers, cryptocurrency mining operations, or similar computing-intensive uses, whether primary or accessory in nature.

Hydro-Cooling System. A closed-loop or water-based heat-exchange system used for temperature control of computing equipment.

Known Mapped Sensitive Area. A sensitive environmental, cultural, hydrologic, scenic, or geologic resource identified in County, state, or federal mapping, records, or adopted plans, including but not limited to wetlands, floodplains, sinkholes, karst features, protected water resources, conservation areas, mapped burial mound or archaeological sensitivity areas, bluffs, scenic byway viewsheds, or other mapped natural-resource areas.

Noise Level (dBA). Sound-pressure level measured with an A-weighted filter and slow-response time constant in accordance with ANSI S12.9 (Parts 1 & 3) and IEC 61672-1 (Type 1 sound-level meter) standards.

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Nonparticipating Parcel. A parcel that is not owned, leased, controlled, or otherwise subject to a written agreement with the High-Density Computing Facility applicant, owner, or operator for purposes of siting, construction, operation, setback, access, or related project approval. **Revised from 5/1/19, 2/20/20, 6/6/18**

Occupied Structure. Any building or structure designed for or regularly used by humans or livestock for habitation, employment, assembly, education, worship, or shelter, whether permanent or seasonal.

Operator. The individual, company, partnership, corporation, or other legal entity that owns, leases, or controls the operation, maintenance, and regulatory compliance of a High-Density Computing Facility.

Owner. The person, partnership, corporation, trust, or other legal entity holding title to the real property on which a High-Density Computing Facility is located, as recorded with the County Recorder.

Peak Particle Velocity (PPV). The maximum instantaneous velocity of ground vibration, expressed in millimeters per second (mm/s), as measured by a tri-axial accelerometer per DIN 4150-3 or BS 7385-2 standards.

Road Use Agreement (RUA). A written agreement between the facility operator/applicant and the Jackson County Engineer (or other road authority having jurisdiction), establishing designated haul routes, access points, traffic control measures, and the operator's obligations for maintenance, repair, and restoration of public road infrastructure impacted by facility-related traffic.

Surface Water. Any water body located on the surface of the land, including rivers, streams, creeks, ponds, lakes, drainageways, wetlands and other waters regulated by the Iowa Department of Natural Resources (IDNR).

Utility Provider. The electric utility (including an investor-owned public utility, municipal utility, or electric cooperative) that is lawfully authorized to provide retail electric service to the subject property, or its designated agent, and that will supply primary electrical power to the High-Density Computing Facility.

Utility Service Coordination Letter. Written documentation from the applicable Utility Provider, or other documentation acceptable to the Zoning Administrator, confirming that the applicant has contacted the Utility Provider regarding the proposed facility's anticipated electrical service needs and identifying any known service extensions, upgrades, easements, substations, transmission or distribution improvements, or related utility infrastructure improvements necessary to serve the proposed use. The letter is for land-use and site-feasibility review only and shall not be construed as County regulation of utility capacity, rates, service territory, interconnection requirements, or system operations.

Section 3. Applicability and Zoning Districts

High-Density Computing Facilities (HDCFs) require substantial electrical infrastructure, may generate continuous operational noise, and may utilize cooling systems that affect surrounding environmental conditions. To ensure compatibility with neighboring land uses, protection of natural resources, and public safety, this section establishes where such facilities may be considered within Jackson County.

A. Prohibited Locations

High-Density Computing Facilities are prohibited in all zoning districts except those specifically listed in Section 3(B).

High-Density Computing Facilities are also prohibited within the Floodplain Overlay District and within any area where industrial or commercial development is prohibited by applicable County, state, or federal law, regulation, easement, deed restriction, conservation restriction, or other legally binding land-use limitation. Sites containing or affecting wetlands, conservation areas, protected natural-resource areas, drainageways, flood-prone areas, karst features, bluffs, or other environmentally sensitive resources shall be subject to all applicable County, state, and federal review and permitting requirements. The County may require the applicant to identify such resources on the site plan and may require additional information or conditions where necessary to determine site suitability and prevent adverse land-use impacts.

Sites located within areas mapped in the County's Historical Burial Mound Overlay or other known or potential archaeological or cultural resource areas shall be subject to the County's existing cultural resource review requirements. Where applicable, the County may require a cultural resource assessment prepared by a qualified professional to confirm that development will not disturb protected resources.

Sites located within the viewshed of a designated national or state scenic byway shall be reviewed in accordance with the scenic byway and visual resource provisions of Section 12.

B. Allowable Locations (Board of Adjustment Approval Required)

High-Density Computing Facilities may be considered only upon approval by the Board of Adjustment, following a public hearing, within the following zoning districts:

- M-1 General Industrial District
- M-2 General Industrial District
- C-1 Commercial District

All High-Density Computing Facilities, regardless of zoning district, shall comply with the enclosure and permanent construction requirements of Section 13.

C. Conditional Use Permit Required

High-Density Computing Facilities shall not be permitted by right in any zoning district.

Approval by the Board of Adjustment is required for all HDCFs and shall be processed as Conditional Use Permits (CUPs) under the Jackson County Zoning Ordinance.

D. General Siting Requirements

1. Sites shall have feasible access to electrical and broadband infrastructure without requiring new service extensions through existing residential neighborhoods or environmentally sensitive areas. As part of siting feasibility, the applicant shall submit the Utility Service Coordination Letter or other acceptable documentation required by Section 9(A), identifying the applicable utility provider and any known utility service extensions, upgrades, easements, substations, transformers, access routes, or related infrastructure improvements that may be necessary to serve the proposed use.

2. Sites shall provide safe, all-weather access for emergency-response, utility, and service vehicles.

3. Facilities that cannot comply with the cooling and water-use standards of Section 7 without reliance on consumptive groundwater or surface-water use shall be ineligible for approval. Any request for consideration of alternative cooling technology shall be reviewed only through the Board of Adjustment approval process and the limited exception provisions of Section 7(B), and shall require written Findings of Fact.

4. Where a proposal involves conversion of existing cropland or pasture to industrial use, the applicant shall provide CSR2 information as required by Section 4. CSR2 is a consideration for compatibility and land-use impacts; it is not, by itself, an approval or denial criterion.

Section 4. Application and Review Process

A. Pre-Application Conference.

Before filing an application, the applicant shall meet with the Zoning Administrator, County Engineer, and Environmental Health. The purpose is to identify site constraints, coordinate utility and infrastructure needs, and confirm required submittals.

B. Application Submittal Requirements.

Applications for a High-Density Computing Facility (HDCF) shall include, at minimum:

1. A site plan showing property boundaries, topography, drainage ways, proposed structures, setbacks, utilities, emergency access, stormwater facilities, parking, and landscaping.
2. If the proposal converts existing cropland or pasture, a CSR2 map and brief summary of (a) the average CSR2 for the disturbed area and (b) acres proposed for disturbance. The applicant may include a short narrative on how the layout minimizes conversion where feasible.
3. Required studies, as applicable, including noise analysis, hydrogeologic/water evaluation, utility service coordination, stormwater and drainage information, traffic information, and backup power/fuel storage information, prepared in accordance with Sections 6 through 14 of this ordinance.
4. The Utility Service Coordination Letter or other acceptable documentation required by Section 9(A).
5. A written operations plan describing anticipated hours of operation, staffing levels, maintenance activities, delivery schedules, site security, emergency shutdown procedures, generator use, backup power systems, expected truck traffic during operation, and the name and contact information for the responsible facility operator.
6. If the project is proposed to be constructed in phases, the applicant shall submit a phasing plan identifying the timing, location, electrical load, structures, equipment, impervious surface, utility improvements, and operational capacity of each phase. Any future phase, expansion, or increase in electrical load beyond that approved shall require review as an Expansion or Modification under this ordinance.
7. The applicant shall identify the location and general type of major utility infrastructure proposed to serve the facility, including transformers, substations, switchgear, utility yards, poles, underground routes, easements, service access routes, and related equipment areas, to the extent known at the time of application.
8. The applicant shall identify the proposed method of sanitary sewage disposal and potable water supply for the facility, including whether the facility will use an existing system, proposed private well, public or municipal water service, hauled water, or another lawful source. Any required County Health Department or state agency review shall be coordinated under Section 8.
9. The applicant shall submit a preliminary stormwater, grading, drainage, and erosion-control plan prepared by a qualified professional, identifying existing and proposed drainage patterns, impervious surface, stormwater facilities, erosion-control measures, sediment-control measures, and any required state or federal stormwater permits.
10. The applicant shall provide an estimate of construction and operational traffic, including employee trips, delivery trips, maintenance vehicles, fuel deliveries, waste or e-waste removal, oversized loads, and anticipated haul routes. The County Engineer may require a more detailed traffic impact study where site conditions, road limitations, traffic volume, or public safety concerns warrant additional review.
11. The applicant shall identify any proposed backup generators, fuel tanks, battery energy storage systems, diesel storage, propane storage, coolant storage, or other backup power systems, including general location, capacity, containment measures, noise impacts, air-emissions permitting status if applicable, and emergency-response considerations. Nothing in this subsection authorizes a battery energy storage system except as otherwise allowed by County ordinance.
12. As part of the Emergency Access and Safety Coordination Plan, the applicant shall provide basic site-safety information reasonably necessary for emergency-response coordination, including access routes, gate or access-control information, emergency contact information, general location of electrical disconnects or isolation points, backup generators, fuel storage areas, battery systems if proposed, coolant or chemical storage areas, and any other site features that may affect emergency access or responder awareness. The plan shall ~~Revised 5/18/2025~~ be provided to the emergency-response agency having jurisdiction for informational review and coordination purposes only. Nothing in this section shall be interpreted to require the County or any emergency-response agency to approve building design, fire-code compliance, utility-owned equipment, electrical systems, or any matter under the authority of the State Fire Marshal or other agency having jurisdiction.
13. The applicant shall submit a list of known or anticipated local, state, and federal permits, licenses, registrations, approvals, or agency reviews required for the project, including but not limited to stormwater, water use, wastewater or discharge, air emissions, fuel storage, electrical, driveway or access, road-use, or environmental permits. County approval under this ordinance does not relieve the applicant of responsibility to obtain all other required approvals.
14. Public Notification
 - a. Notice of the public hearing shall be prepared and published by Jackson County in accordance with Iowa Code sections 335.6 and 331.305 and Chapter 4 of the Jackson County Zoning Ordinance.
 - b. In addition to published notice, mailed courtesy notice shall be provided to all property owners within one (1) mile of the subject property lines.
 - c. Failure of mailed courtesy notice shall not invalidate the hearing or any action taken, provided published notice was properly given.
15. The required fee and any escrow for third-party review, as determined by the Zoning Administrator.

C. Completeness and Review Timeline.

1. Within fifteen (15) business days of submittal, the Zoning Administrator shall determine whether the application is complete and notify the applicant of any deficiencies or confirm completeness.
2. Upon acceptance as complete, applications eligible for Board of Adjustment review shall be scheduled for a public hearing no sooner than forty-five (45) days from acceptance to allow interdepartmental review, technical evaluation, public notice, and utility coordination.

3. Decision Period.

- a. No Rezoning Required. If the property is already zoned to allow High-Density Computing Facilities, the Board of Adjustment shall act on the Conditional Use Permit within ninety (90) days after acceptance of a complete application, unless extended by mutual written agreement.
- b. Rezoning Required. If rezoning is required, the rezoning request shall proceed in accordance with the applicable procedures and timelines of the Jackson County Zoning Ordinance, including any required referrals, reviews, and actions by other jurisdictions or agencies where applicable. Following final action by the Board of Supervisors on the rezoning request, the Board of Adjustment shall schedule and consider the Conditional Use Permit application in accordance with this section.
4. The ninety-day decision period is paused while (a) third-party review is underway or (b) required documents from the applicant or Utility Provider are outstanding.

D. Third-Party Technical Review.

1. The County may retain one or more qualified independent professionals to review technical materials where specialized expertise beyond normal staff capacity is reasonably necessary.

All costs of third-party review, including professional fees and reasonable County administrative costs associated with such review, shall be paid by the applicant to Jackson County, reimbursed to Jackson County upon invoice, or paid through an escrow or advance-payment process established by Jackson County. Such costs shall not be borne by Jackson County. *Revised from 5/19/2026 draft*

2. The County may require an escrow deposit or advance payment in an amount reasonably estimated to cover third-party review costs. Review or processing of the application may be suspended if the escrow is depleted and not timely replenished by the applicant.

3. The County may require an escrow deposit or advance payment to Jackson County in an amount reasonably estimated to cover third-party review costs. Review or processing of the application may be suspended if the escrow is depleted and not timely replenished by the applicant. *Revised from 5/19/2026 draft*

E. Public Hearing.

All High-Density Computing Facility Conditional Use Permit applications shall be heard by the Board of Adjustment following completion of any required rezoning process.

F. Permit Conditions and Findings.

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1. The Board of Adjustment shall impose such reasonable and necessary conditions as are needed to ensure compliance with this ordinance and to protect the public health, safety, and welfare.

2. All decisions shall include written Findings of Fact summarizing the evidence, conditions, and basis for approval or denial, with reference to the standards of Iowa Code section 335.15 where applicable.

3. In addition to the technical standards set forth in Sections 5 through 15, the Findings of Fact shall address, as applicable, compatibility with surrounding land uses, transportation and road impacts, utility service considerations, CSX2 information, and consistency with the Jackson County Land Use Policy and Comprehensive Plan.

G. Minimum Standards; No Guarantee of Approval.

Compliance with the minimum submittal, technical, dimensional, and operational standards of this ordinance does not, by itself, guarantee approval of a High-Density Computing Facility. Each application shall remain subject to the applicable public hearing process, required Findings of Fact, site-specific review, consistency with the Jackson County Zoning Ordinance, Jackson County Land Use Policy and Comprehensive Plan, and consideration of public health, safety, welfare, infrastructure, compatibility, and natural resource impacts. The reviewing body may approve, approve with conditions, or deny an application based on the standards of this ordinance and the evidence in the record.

H. As-Built Documentation and Pre-Operation Certification.

Prior to commencement of full facility operations, the facility owner and operator shall submit as-built plans or certification from a licensed professional confirming that the facility was constructed in substantial compliance with the approved site plan, approved conditions, utility infrastructure plan, stormwater plan, emergency access plan, and other approved application materials.

I. Annual Compliance Certification.

By March 1 of each year, the facility owner and operator shall submit a brief annual certification confirming that the facility remains in compliance with the approved Conditional Use Permit, approved site plan, approved operations plan, noise and vibration standards, cooling and water-use standards, emergency contact information, decommissioning financial assurance, and all applicable conditions of approval. The certification shall identify any material changes in ownership, operation, electrical load, cooling technology, backup power systems, or site layout during the prior calendar year.

Section 5. Setbacks and Separation Requirements

The following setbacks and separation requirements shall apply to all principal structures, equipment enclosures, cooling systems, generators, and associated infrastructure of a High-Density Computing Facility.

A. Occupied Structures and Cemeteries.

No High-Density Computing Facility shall be located less than one thousand feet (1,000') from any occupied structure or cemetery.

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B. Property Lines.

No High-Density Computing Facility shall be located less than five hundred feet (500') from any property line.

C. Wells.

No High-Density Computing Facility structure, equipment enclosure, cooling system, generator, or associated infrastructure shall be located less than five hundred feet (500') from any existing public well or any private well located on a nonparticipating parcel, unless a different separation distance is approved or required by the County Health Department, IDNR, or other agency having jurisdiction. [\[Revised from 5/18/2026 draft\]](#)

D. Known Mapped Sensitive Areas.

No High-Density Computing Facility shall be located less than one thousand feet (1,000') from any known mapped sensitive area.

E. Sensitive Area Protection.

Any High-Density Computing Facility that is otherwise permitted under this ordinance and is proposed more than one thousand feet (1,000') but within one thousand three hundred twenty feet (1,320') of a known mapped sensitive area may, as a condition of approval, be required to implement additional site protections reasonably necessary to prevent runoff, erosion, sedimentation, thermal impacts, or other adverse effects on the sensitive area. Such protections may include buffer strips, stormwater measures, grading controls, vegetation requirements, or other comparable measures appropriate to the site.

F. Greater Setback May Be Required.

The Board of Adjustment may require greater setbacks where site conditions, topography, facility design, cooling technology, water-use characteristics, or other site-specific factors indicate that additional distance is necessary to protect public health, safety, and welfare, to achieve compliance with Section 6 of this ordinance, or to prevent adverse impacts to groundwater, surface water, or hydrologically sensitive features.

G. Findings of Fact Required.

Any increase in the setbacks required by this section, or any additional site protection required under this section, shall be supported by written Findings of Fact referencing applicable studies, modeling, site conditions, agency guidance, or other information contained in the public record.

H. Greater Standard Governs.

Where multiple setback or separation standards apply, the greater distance shall govern. Nothing in this section shall be interpreted to authorize a reduction of any required setback except through the applicable variance process under the Jackson County Zoning Ordinance.

I. Measurement.

Setbacks shall be measured from the nearest High-Density Computing Facility structure, equipment enclosure, cooling system, generator, or associated infrastructure to the respective property line, occupied structure, cemetery, or environmental feature.

If more restrictive setback, buffer, or water-quality requirements are imposed by state or federal law, those requirements shall govern.

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Section 6. Noise and Vibration Standards

The purpose of this section is to protect the health, comfort, and welfare of Jackson County residents from excessive noise and vibration associated with High-Density Computing Facilities.

A. Noise Limits

1. Noise from any High-Density Computing Facility shall not exceed fifty decibels (50 dBA), measured at the property line of a nonparticipating parcel.

2. If testing identifies a distinct hum, tone, or other prominent low-frequency characteristic, the measured sound level shall be adjusted by plus five decibels (+5 dBA) for compliance evaluation purposes.

B. Noise Measurement Standards.

1. Noise measurements shall be conducted in accordance with the most current versions of ANSI S12.9 (Parts 1 and 3) and IEC 61672-1, or approved successor or equivalent standards providing equal or greater rigor, accuracy, and public protection.

Instrumentation and Method. Testing shall be performed using a Class 1 / Type 1 sound level meter capable of one-third-octave band analysis, or equivalent instrumentation under an approved successor or equivalent standard.

2. Measurements shall be taken over a representative operating period sufficient to capture typical facility conditions, including cyclical equipment operation, as determined by the qualified professional conducting the test.

3. If a successor or equivalent standard is used, the testing professional shall provide a brief written statement explaining why the alternative standard is equivalent to or more conservative than the standards listed above.

C. Noise Testing, Reporting, and Corrective Action.

1. The facility owner and operator shall, at their sole expense, provide:

- a baseline ambient noise study completed prior to commencement of construction, documenting existing background sound conditions at representative locations; and
- a post-startup noise compliance test completed within sixty (60) days after commencement of full facility operations, or within such additional time approved by the Zoning Administrator for good cause, demonstrating compliance with this ordinance under representative operating conditions.

2. Additional noise testing may be required by Jackson County in response to a complaint, following any Expansion or Modification, following a documented violation, or when the Zoning Administrator reasonably determines that additional testing is necessary to investigate potential noncompliance.

3. Beginning on the third anniversary of commencement of full facility operations, and every three (3) years thereafter for so long as the facility operates, the facility owner and operator shall provide an updated noise compliance test at their sole expense.

4. All noise testing shall be conducted by an independent qualified professional experienced in environmental noise measurement.

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5. All noise testing and reporting required under this section shall be at the sole expense of the facility owner and operator and shall not be borne by Jackson County.
 6. Any noise study or sound test required under this ordinance shall be submitted to the Zoning Administrator within ten (10) business days after testing. The report shall include, at a minimum, testing locations, dates and times, equipment and calibration information, standards used, facility operating conditions, and results sufficient to demonstrate compliance.
 7. If noise exceeds the allowable limits, the facility owner and operator shall promptly implement corrective measures and, if necessary, suspend the offending equipment or operations until compliance is demonstrated by follow-up testing. Any follow-up report shall also be submitted to the Zoning Administrator.
- D. Vibration Limits.**
- Maximum Vibration Level. Ground vibration from any High-Density Computing Facility shall not exceed the following Peak Particle Velocity (PPV), measured at any property line:
- 0.30 mm/s PPV during daytime hours (7:00 a.m. to 10:00 p.m.);
- 0.14 mm/s PPV during nighttime hours (10:00 p.m. to 7:00 a.m.).
- E. Vibration Measurement Standards**
1. Vibration measurements shall be conducted in accordance with the most current versions of DIN 4150-3 and BS 7385-2, or approved successor or equivalent standards providing equal or greater rigor, accuracy, and public protection.
 - Instrumentation and Method. Testing shall be performed using a tri-axial vibration monitor or accelerometer capable of recording Peak Particle Velocity in three directions.
 2. Measurements shall be taken over a representative operating period sufficient to capture typical facility conditions, including cyclical equipment operation, as determined by the qualified professional conducting the test.
 3. If a successor or equivalent standard is used, the testing professional shall provide a brief written statement explaining why the alternative standard is equivalent to or more conservative than the standards listed above.
- F. Vibration Testing, Reporting, and Corrective Action.**
1. The facility owner and operator shall, at their sole expense, provide:
 - a. a baseline ambient vibration study completed prior to commencement of construction, documenting existing background vibration conditions at representative locations; and
 - b. a post-startup vibration compliance test completed within sixty (60) days after commencement of full facility operations, or within such additional time approved by the Zoning Administrator for good cause, demonstrating compliance with this ordinance under representative operating conditions.
 2. Additional vibration testing may be required by Jackson County in response to a complaint, following any Expansion or Modification, following a documented violation, or when the Zoning Administrator reasonably determines that additional testing is necessary to investigate potential noncompliance.

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3. Beginning on the third anniversary of commencement of full facility operations, and every three (3) years thereafter for so long as the facility operates, the facility owner and operator shall provide an updated vibration compliance test at their sole expense.
 4. All vibration testing shall be conducted by an independent qualified professional experienced in environmental or structural vibration measurement.
 5. All vibration testing and reporting required under this section shall be at the sole expense of the facility owner and operator and shall not be borne by Jackson County.
 6. Any vibration study or test required under this ordinance shall be submitted to the Zoning Administrator within ten (10) business days after testing. The report shall include, at a minimum, test locations and measurement points, dates and times, measurement duration, equipment and calibration information, standards used, facility operating conditions during testing, and results sufficient to demonstrate compliance.
 7. If vibration exceeds the allowable limits, the facility owner and operator shall promptly implement corrective measures and, if necessary, suspend the offending equipment or operations until compliance is demonstrated by follow-up testing. Any follow-up report shall also be submitted to the Zoning Administrator.
- Section 7. Cooling Systems & Water Use**
- The purpose of this section is to address land use impacts associated with cooling systems and water use, including compatibility with surrounding properties, protection of groundwater and surface water resources, and site suitability for High-Density Computing Facilities. This section is intended to establish land use standards and coordination requirements only. Nothing in this section shall be construed to supersede, duplicate, or replace the authority of the Iowa Department of Natural Resources or any other agency having jurisdiction over water withdrawal, discharge, wastewater, or related permitting requirements.
- A. Required Cooling Technology**
- All High-Density Computing Facilities (HDCFs) shall utilize air-cooled or closed-loop cooling systems. Open-loop, once-through, or water-consumptive cooling systems are prohibited. This requirement applies to all primary and auxiliary cooling equipment serving computing, electrical, or energy storage components of the facility.
- B. Limited Exception (Board of Adjustment Discretion)**
- The Board of Adjustment may consider an alternative cooling technology only if the applicant submits a certified engineering report demonstrating that the proposed system:
1. Does not withdraw groundwater or surface water.
 2. Results in no net consumptive water loss.
 3. Does not increase risk to aquifers, private wells, or hydrologically sensitive features.
 4. Complies with all applicable Iowa Department of Natural Resources (IDNR) water-use and discharge requirements.
- Any approval of an alternative cooling system shall require written Findings of Fact and may include conditions of approval.

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C. Spill Prevention and Containment

All coolants, lubricants, and water-treatment chemicals shall be stored in approved containers with secondary containment sufficient to prevent release to soil, groundwater, or surface water. Containment practices shall comply with all applicable local, state, and federal requirements, including applicable IDNR or EPA requirements, manufacturer specifications, permit conditions, and applicable fire, electrical, or industry standards. *Revised from 5/18/2026 draft*

D. Cooling Water Discharge and Disposal

Any discharge or disposal of cooling water, including water containing additives or treatment chemicals, shall comply with all applicable IDNR, federal, and other legal requirements. Where cooling-water discharge or disposal is proposed as part of facility operations, the applicant may be required to provide sufficient information to demonstrate that such discharge or disposal will be lawfully handled through the appropriate permitting or disposal pathway. Nothing in this subsection shall be interpreted to authorize discharge otherwise regulated by IDNR or other agencies having jurisdiction.

E. Closed-Loop System Verification at Start-Up (Under Review)

Prior to commencement of full facility operations, the facility owner and operator shall provide written verification from a licensed professional engineer or qualified cooling-system installer that:

1. All closed-loop cooling systems have been pressure-tested or otherwise inspected for leaks and system integrity;
2. Testing and inspection were conducted in accordance with manufacturer specifications and applicable industry standards; and
3. Any deficiencies identified during testing have been corrected and re-verified.

The Zoning Administrator may require follow-up verification or inspection if there is credible evidence of leakage, system malfunction, or resulting impacts to neighboring land uses or environmental resources.

F. Annual Water Use Reporting

Unless the facility is connected to a municipal water-supply system, the facility owner and operator shall submit a simple annual water-use summary to the Zoning Administrator by March 1 of each year covering the prior calendar year of operations. The summary shall include, at a minimum:

1. Total water used during the reporting period, by source, including municipal supply, private well, or hauled water;
2. A brief description of any changes to cooling equipment, cooling-system type, or water-use practices during the reporting period; and
3. A certification that the facility remains in compliance with the cooling-system and water-use requirements of this section.

Routine submission of this summary to state agencies is not required by this ordinance. Additional reporting may be requested by the Zoning Administrator only if required by IDNR or if credible evidence of water-use conflicts with neighboring properties or environmental resources arises.

G. Compliance With Other Laws

Nothing in this section supersedes, duplicates, or limits the authority of the Iowa Department of Natural

Resources or any other agency having jurisdiction. All facilities shall comply with Iowa Code chapter 455B and all other applicable state and federal laws, permits, and regulatory requirements.

Section 8. Sanitary Facilities and Water Supply

This section serves as a coordination provision. Sanitary sewage disposal systems and potable water supply systems are governed by the County Health Department and applicable state agencies rather than independent County zoning standards.

All sanitary sewage disposal systems and potable water supplies serving a High-Density Computing Facility shall comply with applicable County Health Department regulations and all applicable state requirements administered by the Iowa Department of Health and Human Services, Iowa Department of Natural Resources, or any other agency having jurisdiction.

Where review or permitting by the County Health Department or a state agency is required, the Zoning Administrator shall coordinate referral as part of the application review process. Approval under this ordinance does not relieve the facility owner, operator, applicant, or property owner of responsibility to obtain all required sanitary, wastewater, potable-water, well, water-system, or related permits and approvals.

Section 9. Utility Coordination

A. Utility Service Coordination and Applicant Verification.

The applicant shall provide written documentation identifying the applicable electric Utility Provider for the subject property and confirming that the applicant has consulted with the Utility Provider regarding the proposed High-Density Computing Facility, including the proposed maximum electrical service load and any known utility service extensions, upgrades, easements, substations, transmission/distribution improvements, or related site improvements that may be necessary to serve the proposed use.

The documentation may be provided in the form of a utility service availability letter, utility feasibility letter, service coordination letter, or other written confirmation acceptable to the Zoning Administrator. Proprietary, confidential, rate-related, or contract terms may be redacted.

The purpose of this requirement is limited to land-use review, site-feasibility review, infrastructure coordination, emergency access and safety planning, and evaluation of potential site impacts. Nothing in this subsection shall be interpreted to require the County to determine electric utility capacity, approve or deny electric service, regulate utility rates, regulate service territories, regulate interconnection requirements, require a Utility Provider to serve the facility, or interfere with matters governed by state or federal law. Failure to provide the required documentation may result in the application being deemed incomplete.

B. Utility Connections, Infrastructure and Site Design

1. Reasonable efforts shall be made to place utility connections serving the HDCC underground where feasible based on soil conditions, topography, distance, and other site constraints.

2. Major utility equipment areas, transformers, switchgear, substations, easements, and service-access routes shall be shown on the approved site plan to the extent known and shall be located, screened, and accessed in a manner compatible with surrounding land uses and emergency-response needs.

Section 10. Emergency Access, Safety Coordination and Hazard Containment

A. Emergency Access and Safety Coordination Plan

Prior to issuance of any zoning permit, the applicant shall submit an Emergency Access and Safety Coordination Plan consistent with the information required under Section 4(B)(12). The plan shall demonstrate that the facility site layout provides safe, reliable, all-weather access for emergency-response, utility, and service vehicles and includes basic site-safety information reasonably necessary for emergency-response coordination.

The plan may be provided to the emergency-response agency having jurisdiction for informational review and coordination purposes only. Nothing in this section shall be interpreted to require the County or any emergency-response agency to approve building design, fire-code compliance, utility-owned equipment, electrical systems, or any matter under the authority of the State Fire Marshal, Utility Provider, or other agency having jurisdiction.

The plan shall be maintained on file with the County and updated as necessary to reflect material changes to site layout, access, gate or access-control information, emergency contact information, emergency electrical disconnects or isolation points, backup power systems, fuel storage areas, coolant or chemical storage areas, or other site features that may affect emergency access or responder awareness.

B. Emergency Contact and Access Updates

The facility owner and operator shall maintain current twenty-four-hour emergency contact information with the Zoning Administrator. Any change in facility ownership, operation, emergency contact information, access-control information, or designated responsible representative shall be provided to the Zoning Administrator within ten (10) days.

C. Hazard Awareness and Containment

To reduce risks to surrounding land uses, public infrastructure, responders, and natural resources, on-site storage of coolants, fuels, lubricants, batteries, or other regulated liquids or chemicals shall be located and maintained so as to prevent spills, leaks, discharges, or uncontrolled releases to soil, groundwater, surface water, stormwater systems, or the atmosphere, as applicable under local, state, or federal law.

Secondary containment and release-prevention measures shall be provided where required by applicable law, permit, code, manufacturer specifications, or industry standards. **Revised from 5/18/2026 draft**

D. Emergency Signage

A sign visible at the primary access entrance shall identify the facility owner and/or operator and display a twenty-four-hour emergency contact phone number. Required signage shall be maintained in good condition for the life of the facility. Any change in facility ownership, operation, or emergency contact information shall be updated on the required signage and in the Emergency Access and Safety Coordination Plan within ten (10) days.

Section 11. Waste Management, E-Waste, and Regulated Materials

A. Purpose and Land Use Basis

This section is intended to address land-use impacts associated with the on-site accumulation, storage, removal, recycling, and disposal of electronic waste, obsolete equipment, regulated materials, and similar

materials associated with High-Density Computing Facilities. Such impacts may include site-safety concerns, contamination risk, visual blight, interference with site maintenance, and interference with decommissioning or site restoration. Nothing in this section is intended to supersede, duplicate, or replace the authority of the Iowa Department of Natural Resources, the U.S. Environmental Protection Agency, the State Fire Marshal, or any other agency having jurisdiction over environmental, waste-disposal, hazardous-material, or code-compliance matters.

B. Waste Handling and Disposal

All solid waste, e-waste, hazardous materials, and regulated substances associated with a High-Density Computing Facility shall be handled, stored, transported, and disposed of in compliance with all applicable local, state, and federal laws. Such materials shall not be accumulated on-site beyond reasonable operational needs.

C. Timely Removal

To prevent site-safety concerns, visual blight, and interference with decommissioning or site restoration, e-waste and hazardous materials shall be stored and removed in compliance with all applicable local, state, and federal laws and shall not be accumulated on-site beyond reasonable operational needs. Temporary storage pending removal shall occur within approved structures or enclosures, or within approved containers designed for the material being stored, and shall use appropriate containment measures where required by applicable law or standards.

D. Documentation

The facility owner and operator shall maintain disposal, recycling, transfer, manifest, or other records required by applicable local, state, or federal law, including IDNR or EPA requirements where applicable. To the extent such records exist or are legally required, they shall be retained for at least five (5) years or the period required by the applicable agency, whichever is longer, and shall be provided to the Zoning Administrator upon request for purposes of verifying compliance with this ordinance or decommissioning obligations. Routine submission is not required unless a compliance concern arises.

E. Compliance and Referral

Failure to comply with this section constitutes a zoning violation subject to enforcement under the Jackson County Zoning Ordinance. Jackson County may refer suspected environmental violations to the Iowa Department of Natural Resources, the U.S. Environmental Protection Agency, or other agencies having jurisdiction.

Section 12. Screening, Fencing, and Lighting

A. Security Fencing

An eight-foot (8 ft.) security fence shall be installed and maintained around the perimeter of the High-Density Computing Facility. Fencing shall be constructed of durable, non-reflective materials commonly used for substations, utility facilities, or similar secured infrastructure. All access points shall be secured with lockable gates designed to prevent unauthorized entry. Fencing shall be maintained in good condition for the life of the facility.

B. Visual Screening

Visual screening may be required by the Board of Adjustment where necessary to reduce visual impacts on nearby occupied structures or public roadways and to maintain compatibility with surrounding land uses. In determining whether screening is required, the Board of Adjustment may consider facility visibility, site conditions, topography, existing vegetation, and the relationship of the facility to nearby occupied structures and public roads.

1. Required screening may include architectural walls or panels, berming, landscaping with native or adaptive species, existing vegetation, or other comparable methods approved by the Board of Adjustment.
2. Loading bays, refuse and trash collection areas, service entrances, and similar service areas shall be located or screened to minimize visibility from public roads and nearby occupied structures.
3. Ground-mounted mechanical and electrical equipment, including but not limited to generators, transformers, cooling equipment, switchgear, and similar components, shall also be located or screened to minimize visibility from public roads and nearby occupied structures. Ground-mounted mechanical or electrical equipment and service-yard areas shall not be located within any required building setback for the zoning district.
4. Screening requirements shall be site-specific and shall not interfere with sight-distance requirements, road safety, snow removal, or utility infrastructure.

C. Screening Maintenance

Any required screening shall be maintained for the life of the facility. Dead, damaged, or missing plant materials shall be replaced within the next appropriate growing season.

D. Exterior Lighting

All exterior lighting shall be designed to minimize glare, light trespass, and visual impacts on surrounding properties. Exterior lighting shall be fully shielded and downcast and shall be directed away from adjacent properties and public roadways. Lighting levels shall not exceed 0.2 foot-candles, measured at the property line. Motion sensors, timers, or other control technologies shall be used where feasible to minimize continuous illumination. Exterior lighting fixtures shall not exceed 3,000 Kelvin.

E. Reflective Materials

Reflective, mirrored, or high-gloss exterior finishes are prohibited on buildings, fencing, and equipment enclosures. Exterior materials shall utilize matte or low-reflectivity finishes compatible with surrounding rural or industrial character.

F. Scenic Byway and Visual Resource Considerations.

Jackson County recognizes the importance of protecting the visual character and scenic resources associated with designated state and national scenic byways. Where a proposed High-Density Computing Facility is located within the viewshed of such a corridor, the Board of Adjustment may consider visual impacts and may require reasonable conditions, including additional screening, lighting controls, site layout modifications, and compatible exterior materials or finishes, to reduce adverse visual effects.

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G. Site Maintenance

The facility owner and operator shall maintain the site in a clean and orderly condition for the life of the facility, including fencing, screening elements, lighting fixtures, and the grounds immediately surrounding structures.

H. Enforcement

Failure to maintain the site in compliance with this section or with approved plans shall constitute a zoning violation subject to enforcement under this ordinance. All costs associated with installation, maintenance, replacement, and long-term upkeep required under this section shall be the responsibility of the facility owner and operator.

Section 13. Structural Standards

A. Permanent Construction Required

All principal buildings and equipment enclosures associated with a High-Density Computing Facility shall be permanently constructed and supported by a concrete foundation or equivalent engineered foundation designed by a licensed professional engineer.

B. Enclosure Required for Computing Equipment

All servers, computer clusters, processors, data-processing equipment, cryptocurrency mining equipment, artificial-intelligence computing equipment, and similar computing equipment shall be located entirely within a fully enclosed, permanent building. Outdoor or partially enclosed placement of computing equipment is prohibited.

This subsection does not prohibit exterior placement of permanently installed mechanical, electrical, cooling, generator, transformer, switchgear, fuel-storage, utility, or similar support equipment, provided such equipment is shown on the approved site plan and complies with all applicable setbacks, screening, noise, safety, containment, and other requirements of this ordinance.

C. Exterior Mechanical and Electrical Support Equipment

Exterior mechanical, electrical, cooling, generator, transformer, switchgear, fuel-storage, utility, or similar support equipment shall be permanently installed, shown on the approved site plan, and maintained in good repair. Such equipment shall not be placed on temporary skids, trailers, shipping containers, mobile storage units, or other non-permanent supports except during construction, repair, emergency replacement, or other temporary activity approved by the Zoning Administrator.

D. Prohibited Structures

The following portable or non-permanent structures shall not be used as buildings, enclosures, or permanent support structures for computing equipment or associated support equipment of a High-Density Computing Facility:

- Cargo or shipping containers;
- Railroad cars;
- Semi-truck trailers.

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- Mobile or temporary storage units; or
- Any other portable or non-permanent structure not designed for long-term building occupancy.

E. Structural Maintenance

All structures and equipment enclosures associated with a High-Density Computing Facility shall be maintained in good repair and free of deterioration, corrosion, or structural defects that could create safety hazards, fire risk, or operational impacts. Failure to maintain structures in compliance with this section constitutes a zoning violation subject to enforcement under this ordinance.

F. Parking

Off-street parking for High-Density Computing Facilities shall be provided at a minimum ratio of one (1) parking space per two (2) employees on the maximum shift, plus one (1) parking space per company vehicle. If the principal use of the facility changes following CUP approval, the new use shall comply with all applicable parking and loading requirements for that use under the Jackson County Zoning Ordinance.

Section 14. Road Use and Infrastructure Agreements

A. Purpose

To protect Jackson County roads, bridges, culverts, and drainage systems from damage due to construction, operation, or maintenance traffic associated with High-Density Computing Facilities (HDCFs); to ensure safe and reliable access during construction; and to assign responsibility for repair and restoration to the facility operator.

B. Road Identification and Access

1. Before issuance of any zoning permit and prior to construction-related hauling or site mobilization, the applicant shall identify all public roads, bridges, and access points intended for use in transporting equipment, materials, or supplies to and from the site.

2. The County Engineer may require additional traffic information or a traffic impact study when the proposed facility, construction schedule, haul route, access point, road classification, bridge or culvert condition, sight-distance limitation, or nearby land use indicates that additional review is reasonably necessary to protect public safety and public infrastructure.

3. The applicant shall obtain all required oversize-load, weight, and access permits from the County Engineer or other road authority at least sixty (60) days prior to mobilization.

C. Existing Road Conditions (Pre-Construction Survey)

1. Prior to commencement of construction-related hauling or site mobilization, the applicant shall conduct a pre-construction road condition survey in coordination with the County Engineer to establish baseline conditions for all proposed haul routes.

2. The survey shall include, at a minimum, photographs or video, pavement and shoulder condition documentation, and identification/condition of ditches, culverts, and drainage structures.

3. The survey shall be prepared or verified by a licensed professional engineer and shall be approved by the County Engineer before construction begins.

D. Road Use Agreement

1. Prior to the start of construction, the facility owner and operator shall enter into a written Road Use Agreement with Jackson County, in a form approved by the County Engineer and County Attorney, if applicable.

2. The RUA shall describe designated haul routes, traffic control measures, seasonal load restrictions, dust-control measures, and the operator's responsibilities for maintenance and repair.

3. The RUA shall remain in effect until all construction activities are complete and final inspections are accepted by the County Engineer.

E. Financial Assurance

1. Prior to the start of construction-related hauling, the operator shall provide financial security—such as a performance bond, irrevocable letter of credit, or cash escrow, in an amount equal to one hundred thirty percent (130%) of the estimated cost of any required road repairs, improvements, or maintenance.

2. The amount shall be determined by the County Engineer based on expected use and anticipated repair or improvement costs and may be adjusted as needed to reflect updated engineering estimates or changed site conditions.

3. Financial assurance shall be in a form acceptable to the County and shall be issued by a surety or financial institution authorized to do business in the State of Iowa.

4. Financial assurance shall remain in force until written release by the County Engineer, not less than twelve (12) months after completion of construction or hauling activities.

F. Maintenance and Repair

1. During construction and any other period of extraordinary hauling or heavy equipment transport associated with the facility, the facility owner and operator shall maintain all approved haul routes in a condition equal to or better than their documented pre-construction condition.

2. Any damage, deterioration, or safety hazard caused by facility-related traffic shall be repaired or mitigated within seventy-two (72) hours of discovery or written notice from the County Engineer, or within such other reasonable timeframe as may be specified by the County Engineer based on the nature of the damage and public safety considerations.

3. If repairs are not made within the required timeframe, the County may take enforcement action and may draw upon the financial assurance to complete the work.

G. Post-Construction Inspection and Release

1. After construction is complete, a joint inspection shall be performed by the County Engineer and operator to compare post-construction conditions with the baseline survey.
2. When all deficiencies have been corrected, the County Engineer shall issue written confirmation and release the financial security.
3. If deficiencies remain, the County may use the bond, escrow, or other instrument to complete remaining work and recover administrative/engineering costs where authorized.

H. Drainage and Infrastructure Protection

The operator shall repair any damage to public drainage systems, culverts, or associated infrastructure caused by construction or operation within seventy-two (72) hours of discovery or as directed by the County Engineer.

Section 15. Discontinuation, Decommissioning, and Abandonment

A. Purpose

To ensure High-Density Computing Facilities (HDCFs) are dismantled, removed, and the site restored to a safe, stable, and environmentally sound condition when use is discontinued, abandoned, or a permit is revoked, and to ensure that decommissioning costs are borne by the operator and property owner rather than the public.

B. Discontinuation / Abandonment

1. A HDCF is considered discontinued after one (1) year without active operations or other documented productive use authorized by the Conditional Use Permit, unless the operator submits a written plan to return the facility to service on a reasonable schedule. The operator shall provide written notice to the Zoning Administrator when the facility is permanently shut down or when operations will be suspended for an extended period.

2. The Zoning Administrator may determine discontinuation or abandonment based on inspection, operator information, or other reliable documentation.

C. Decommissioning Deadline and Extension

1. Following discontinuation or abandonment, the facility owner and operator shall complete decommissioning and site restoration within two hundred seventy (270) days in accordance with the approved Decommissioning Plan.
2. The facility owner and operator may request one extension of up to ninety (90) days, in writing, for good cause shown.

D. Decommissioning Plan (Submitted with CUP)

1. At the time of Conditional Use Permit (CUP) application, the applicant shall submit a Decommissioning Plan outlining how the facility will be removed and the site restored at the end of its service life or upon discontinuation/abandonment.
2. The plan shall be prepared and sealed by a professional engineer licensed in the State of Iowa.

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3. At a minimum, the plan shall include:
 - a. A step-by-step sequence for dismantling, removal, recycling, and disposal of buildings, equipment, foundations, wiring, conduits, fencing, lighting, impervious surfaces, and accessory facilities.
 - b. Site-restoration actions, including repair of disturbed areas, regrading as needed, and revegetation/ground cover.
 - c. An itemized cost estimate in current dollars for decommissioning and site restoration, excluding salvage value.
 - d. Identification of responsible parties and contractors.
 - e. A description of how decommissioning will be carried out safely and in compliance with applicable laws.

E. Cost Estimate Review and Update

1. The decommissioning cost estimate is subject to County review for completeness and reasonableness. At the applicant's sole expense, the County may retain an independent qualified professional to evaluate the estimate.

2. At the sole expense of the facility owner and operator, jointly and severally, decommissioning cost estimates shall be reviewed and updated at least every three (3) years, or more often if required by the County due to material changes in facility size or configuration.

F. Financial Assurance Required

1. Prior to issuance of any zoning permit or commencement of construction, the facility owner and operator shall be jointly and severally responsible for providing and maintaining financial assurance in a form acceptable to Jackson County to guarantee decommissioning, site restoration, and compliance with this section. The amount of financial assurance shall be based on the approved decommissioning cost estimate, as reviewed and accepted by the County, and shall be kept current and in effect for the life of the facility until released in writing by Jackson County following satisfactory completion of decommissioning and restoration.
2. Financial assurance shall be issued by a surety or financial institution authorized to do business in Iowa and shall name Jackson County as beneficiary/obligee as appropriate.

3. Financial assurance shall remain in effect until the County confirms in writing that decommissioning and site restoration are complete. Failure to maintain required financial assurance is a zoning violation and a breach of CUP conditions.

G. Responsibility; Property Owner Acknowledgement

Prior to final CUP approval and prior to issuance of any zoning permit or commencement of construction, the property owner of record shall either be a co-applicant or, together with the facility operator, shall execute and provide to Jackson County a written acknowledgement, in a form approved by the County, confirming their understanding of and agreement to comply with the decommissioning, restoration, financial assurance, maintenance, and enforcement requirements of this ordinance.

- The acknowledgment shall include, at a minimum:
1. The legal description of the subject property and parcel identification number;

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2. The name and address of the record property owner;
 3. The name and address of the facility operator, if different from the owner;
 4. Reference to the approved Conditional Use Permit by case number and date of approval, if applicable;
 5. A statement that the facility owner and operator are jointly and severally responsible for compliance with the requirements of this ordinance, including decommissioning, restoration, financial assurance, and cost reimbursement obligations;
 6. A statement that such obligations shall be binding upon the owner, operator, and their respective heirs, successors, assigns, lessees, transferees, and any other party acquiring an ownership or operational interest in the facility or subject property;
 7. A statement that any subsequent transfer, sale, assignment, or conveyance of the subject property or facility shall not extinguish or diminish the obligations imposed by this ordinance; and
 8. A statement that zoning approval does not relieve the owner or operator from compliance with any other applicable local, state, or federal requirements.
- The County may require that this acknowledgment, or a memorandum of it in recordable form, be recorded against the subject property with the Jackson County Recorder so as to provide notice to successors and assigns. A recorded copy, including Recorder filing information, shall be provided to the Zoning Administrator before any zoning or building permit is issued. Failure to record and provide proof of recording as required by this section constitutes a zoning violation and shall be grounds for withholding or revoking permits issued under this ordinance.
- Private lease terms or contractual arrangements between the owner and operator do not limit the County's authority to enforce this ordinance.
- H. County Remedy on Default; Cost Recovery**
1. If the operator fails to complete decommissioning and restoration on time, the County may issue a written Notice of Default stating the basis for noncompliance and providing a reasonable cure period, not to exceed thirty (30) days, unless a shorter period is needed to address an imminent threat to health, safety, or the environment.
 2. After the cure period (or sooner, if necessary to address an imminent threat), the County may take enforcement action and may cause decommissioning and site restoration to be completed by contractors selected by the County.
 3. The County may draw on the financial assurance in an amount sufficient to pay all reasonable costs incurred to complete decommissioning and restoration, including contractor costs, administrative costs, engineering and inspection services, and legal expenses. The County's determination of default and documentation of costs shall be sufficient basis for a claim against the financial assurance.
 4. If County costs exceed the available financial assurance, the operator and property owner of record may be held responsible for the unpaid balance to the extent permitted by law.

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5. Where authorized by Iowa law, the County may pursue recovery of eligible costs through liens, special assessments, or tax recovery procedures, including Iowa Code § 331.384 if determined applicable by legal counsel.
- 1. Documentation of Completion**
- Upon completion of decommissioning and site restoration, the facility owner and operator shall submit a final report prepared by a qualified professional certifying that work was completed in accordance with the approved plan. The County shall inspect the site before releasing financial assurance.
- 1. Site Restoration**
- Unless otherwise approved as part of a reuse plan, decommissioning shall include:
1. Removal of exterior HDCF-specific equipment and appurtenances, including exterior equipment yards, standalone cooling equipment, generators, transformers not needed for a subsequent permitted use, above-ground tanks, and security fencing that is no longer needed.
 2. Restoration of disturbed areas not needed for a subsequent permitted use, including removal of unused gravel laydown areas, stabilization of soil, and reseeding or other vegetative cover consistent with surrounding land uses.
 3. Removal or mitigation of foundations, pads, or below-grade structures that create safety hazards, impede agricultural use, or are inconsistent with the approved post-decommissioning land use.
- K. Interior Equipment and Materials**
- Interior computing equipment and associated materials shall be de-energized and managed in compliance with all applicable e-waste, solid-waste, and hazardous-waste laws and regulations, including Iowa Code Chapter 455B and any applicable state or federal requirements.
- Nothing in this ordinance shall be construed to prohibit reuse of a structurally sound, code-compliant building shell and foundation for other permitted industrial, commercial, or agricultural uses, provided all hazardous materials and regulated equipment are removed or managed in compliance with applicable law and any approved reuse plan.
- L. Reuse of Buildings**
- The Board of Adjustment may approve a decommissioning plan that retains a building shell and associated foundations when a subsequent permitted use has been identified or is reasonably foreseeable, and when retention is consistent with public safety, building and fire codes, and surrounding land use compatibility.
- Section 16. Enforcement and Penalties**
- A. General Authority**
- The Zoning Administrator is authorized to administer and enforce this ordinance pursuant to Chapter 11 of the Jackson County Zoning Ordinance and Iowa Code § 335.
- B. Responsibility**

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The facility owner and operator shall be jointly and severally responsible for compliance with this ordinance, all conditions of approval, all approved plans and submissions, and all obligations relating to construction, operation, maintenance, decommissioning, restoration, and enforcement of the facility.

No transfer of ownership, operational control, leasehold interest, or other interest in the facility or subject property shall relieve the owner or operator of any responsibility under this ordinance unless and until such transfer is approved in writing by Jackson County as required by this ordinance.

Private agreements between the owner, operator, lessee, contractor, or any other party shall not limit or impair the County's authority to enforce this ordinance against any responsible party.

C. Violations and Procedures

1. When the Zoning Administrator determines that a violation of this ordinance, an approved permit, a condition of approval, or an approved plan or submission has occurred, the Zoning Administrator shall issue a written Notice of Violation to the facility owner and operator and shall copy the property owner of record. The notice shall identify the nature of the violation, the corrective action required, and the deadline for compliance.

2. If the violation is not corrected within the time specified in the Notice of Violation, Jackson County may pursue one or more of the following remedies, as authorized by law and the Jackson County Zoning Ordinance:

a. Civil citations and fines as provided by County code;

b. Initiation of suspension or revocation proceedings for the Board of Adjustment approval or zoning permit, as applicable and as authorized by law;

c. Initiation of civil abatement or nuisance proceedings under Iowa Code section 657, Chapter 11 of the Jackson County Zoning Ordinance, or other applicable law; and

d. Recovery of County costs as provided in this ordinance.

3. [PENDING ATTORNEY REVIEW] Where a High-Density Computing Facility is operating in a manner that poses an imminent and documented threat to public health or safety, neighboring property, public infrastructure, or natural resources — including but not limited to uncontrolled hazardous-material release, fire or explosion risk, or repeated operation in violation of enforceable noise or vibration limits after notice and opportunity to cure — the County may seek immediate temporary injunctive relief or other lawful relief in a court of competent jurisdiction, or may pursue any temporary suspension mechanism otherwise authorized by Iowa law. This subsection shall be interpreted and applied only to the extent consistent with Iowa Code chapter 335 and other applicable law.

D. Abatement and Cost Recovery

If the facility owner and operator fail to timely remedy a violation or to complete required decommissioning or site restoration, Jackson County may, after notice and opportunity to cure as provided by this ordinance, enter the property and take such actions as are reasonably necessary to perform abatement, decommissioning, or site restoration.

The facility owner and operator shall be jointly and severally responsible for all reasonable costs incurred by Jackson County in connection with such work, including but not limited to administrative costs, contractor

costs, engineering or consultant review, inspection costs, recording costs, legal expenses, and site restoration costs.

Jackson County may recover such costs through any financial assurance required by this ordinance and may pursue any other remedy authorized by law, including lien procedures under Iowa Code section 331.384 if applicable.

E. Continuing Violations

Each day that a violation continues after the deadline for correction stated in a Notice of Violation, or after any extended deadline approved by Jackson County, shall constitute a separate violation. Civil penalties may be assessed for each day of continuing violation as provided by County code and the County Schedule of Fines and Fees.

F. Coordination with Other Authorities

Nothing in this ordinance limits the authority of Jackson County to refer matters to the Iowa Department of Natural Resources, the State Fire Marshal, the County Engineer, the County Health Department, law enforcement, or any other local, state, or federal agency having jurisdiction over the matter. Referral to another agency does not preclude Jackson County from also pursuing enforcement under this ordinance.

Section 17. Miscellaneous Provisions

A. Non-Transferability

Any Conditional Use Permit or zoning permit issued under this ordinance is specific to the approved applicant, owner, operator, and project site, and shall not be transferred or assigned without prior written approval by the Zoning Administrator, or by the Board of Adjustment where required under the Jackson County Zoning Ordinance.

B. Conflict of Regulations

This ordinance shall be applied in coordination with other applicable federal, state, and local requirements. Where a conflict exists, the controlling authority shall govern.

C. Severability

If any section, clause, or provision of this ordinance is declared invalid or unconstitutional by a court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of the ordinance.

D. Periodic Review

The County shall review this ordinance at least every three (3) years, and may update it sooner as needed, to ensure continued alignment with evolving technologies, public infrastructure considerations, and applicable state and federal requirements.

E. Referenced Standards

Any reference in this ordinance to a statute, administrative rule, or technical standard—including but not limited to the Iowa Code, Iowa Administrative Code, NFPA, ANSI, IEC, or IDNR rules—shall mean the version in effect at the time of application, unless a specific edition or date is expressly stated. Where a successor or

equivalent standard exists, the County may accept compliance with the successor/equivalent standard upon a determination that it provides equal or greater protection and enforceability.

F. Owner and Operator Responsibility for Costs

Unless otherwise expressly provided in this ordinance, all costs associated with application preparation, technical studies, design, installation, utility extensions or upgrades, testing, monitoring, reporting, maintenance, remediation, decommissioning, restoration, and compliance with this ordinance shall be the responsibility of the facility owner and operator, jointly and severally, and shall not be borne by Jackson County.

G. Conditions of Approval: More Restrictive Standard Controls.

Where a condition of approval, approved site plan, approved study, recorded agreement, agency requirement, or other applicable law imposes a more restrictive requirement than this ordinance, the more restrictive requirement shall govern.

H. Other Permits, Approvals, and Private Obligations.

Approval under this ordinance does not relieve the facility owner, operator, applicant, or property owner from obtaining any other required local, state, or federal permits, licenses, registrations, approvals, inspections, or authorizations. Approval under this ordinance also does not relieve the owner or operator from compliance with private covenants, easements, lease terms, deed restrictions, utility agreements, or other private obligations applicable to the property.

I. Public Records and Confidential Information.

Application materials, studies, reports, plans, correspondence, and approvals submitted under this ordinance may be subject to Iowa public records laws. If an applicant believes any submitted material is confidential or protected from disclosure, the applicant shall clearly identify the specific material and the legal basis for the claimed protection at the time of submittal. Jackson County does not guarantee confidential treatment of submitted materials except as required or allowed by law.

J. No County Warranty or Assumption of Liability.

Approval under this ordinance shall not be construed as a warranty or representation by Jackson County that the facility is safe, suitable, profitable, properly engineered, compliant with private agreements, or compliant with all non-zoning laws. The facility owner and operator remain solely responsible for design, construction, operation, maintenance, compliance, decommissioning, restoration, and all costs and liabilities associated with the facility.

JONES COUNTY, IOWA

JONES COUNTY IOWA ORDINANCE 2025-
An ordinance amending the code of ordinances of the County of Jones, State of Iowa.

Be it enacted by the Board of Supervisors of Jones County, Iowa as follows:

Section 1: The purpose of this ordinance is to amend CHAPTER 3, JONES COUNTY ZONING ORDINANCE OF 1979, BY AMENDING ARTICLE VI, PART 1, BY ADDING ADDITIONAL DEFINITIONS AND REPLACING ARTICLE XVII RESERVED FOR FUTURE USE WITH ARTICLE XVII CRYPTOCURRENCY AND DATA MINING.

Section 2: The Chapter will be amended as follows:

ARTICLE XVII CRYPTOCURRENCY AND DATA CENTERS

SECTION 1. INTENT
The intent of this Article is to promote and regulate the design, siting, construction, operation, maintenance and decommissioning of cryptocurrency facilities and data centers and to protect the health, safety and welfare of neighbors and the public, and to avoid unintended impacts on resources and adjacent uses.

SECTION 2. PURPOSE

The purpose of this Article is to provide the requirements necessary to obtain a permit to install and operate an active cryptocurrency facility or data center in Jones County.

SECTION 3. DEFINITIONS

As used in this Article, the following terms are hereby defined, in addition to those found in [Article III Definitions](#):

Clean Agent Fire Suppression system: A system that uses electrically non-conductive gaseous agents that do not leave residue upon evaporation to extinguish fires.

Closed-Loop Cooling system: A sealed system where a coolant circulates continuously, absorbing heat from a source, and then transferring that heat to a heat exchanger for removal, without the coolant ever being exposed to the environment.

Commercial cryptocurrency mining: The commercial process by which cryptocurrency transactions are verified and added to the public ledger, known as the block chain, and the means through which new units of cryptocurrencies are released through the use of server farms. Any equipment requiring a high-density load service, for the purposes of operating a cryptocurrency mining server farm, will constitute a commercial cryptocurrency mining operation.

Cryptocurrency: A digital currency in which encryption techniques are used to regulate the generation of units of currency and to verify the transfer of funds while operating independently of a central bank.

Cryptocurrency data center: leased or owned buildings or floor space devoted to the operating data processing equipment for commercial cryptocurrency mining; excludes spaces for data centers not otherwise engaged in commercial

cryptocurrency mining, commercial offices, storage, shipping and receiving, warehousing, or any other space that is not electronic processing.

Cryptocurrency server farm: Three or more interconnected computers housed together in a single facility either air-cooled or water cooled, whose primary function is to perform cryptocurrency mining or associated data processing.

Data mining: The commercial process by which volumes of data are analyzed to find patterns, discover trends, and gain insight into how the data can be used will constitute a commercial data mining operation.

High-density load service: Any industrial service of or above 600 amps in which the energy use intensity (kWh) is calculated as greater than 250 kWh/acre/year in total for all operating square footage.

Liquid Cooling System: A method of cooling electronic components or other devices by circulating liquid coolant through them, to cool and absorb heat from components and then dissipate heat through a radiator.

SECTION 4: DATA CENTERS AND CRYPTOCURRENCY OPERATIONS

Data Centers and cryptocurrency operations are allowed in the A2-Agricultural, C1-Commercial, CZ-Heavy Commercial, I-Industry and the I2-Heavy Industry districts.

A. A site plan shall be submitted and reviewed prior to the approval of the data center or cryptocurrency facility installation and shall require a special use permit.

B. Applicants wishing to site a new data center or cryptocurrency mining facility within Woodbury County must provide an application and site plan. Each project shall require a separate application. Data centers and cryptocurrency mining facilities will use the Special Permitted Use application under the appropriate district. The application for a data center or cryptocurrency facility installation shall include the following information on the site plan or in narrative form, supplied by the data center or cryptocurrency installation owner.

1. The name, address, EIN of Applicant, as well as the proposed property owners, including contact information (name, address, telephone and email) of the authorized representative.
2. Project development timeline which indicates how the applicant will inform adjacent property owners and interested stakeholders in the community.
3. Project development plan for the project, which plan shall contain aerial photographs of the entire proposed project area, showing the proposed location for the facility. The plan shall show property lines and setback distances.
4. Documentation of Applicant's legal control over the private property necessary for the project, signed by the property owner.
5. The applicable fee.

6. A report prepared by a qualified third-party analyzing the noise profile of the project area and the ability of the project to demonstrate compliance. The expense for testing and reporting the results, in written format to the County will be the responsibility of the applicant.
7. Ice mitigation report for public right of ways and neighboring properties approved by the Jones County Engineer and adjacent landowners.

8. Emergency Operations Procedures. A copy of the approved Emergency Operations Procedures shall be given to the system owner, the local fire department, the Sheriff, and Jones County Emergency Management. A permanent copy shall also be placed in an approved location to be accessible to facility personnel and emergency responders.

9. Documentation plan.

SECTION 5: PUBLIC NOTICE

Upon receipt of all applications and filing fees, the Land Use Administrator shall place on the appropriate Board or Commission's agenda for the next regular meeting and see that proper notice is provided. Proper notice shall consist of publication of the request along with the time and place for the hearing at least five (5) days prior to the hearing, not no longer than twenty (20) days prior to the hearing in all the officially designated newspapers of the County. In addition, certified mailings shall be sent to all property owners within a one (1) mile radius with the time and place for the hearing.

SECTION 6: GENERAL SITING AND DESIGN REQUIREMENTS

A. **Lot Size:** Minimum lot size shall adhere to the minimum standards for the zoning district where the project is located. See Appendix A

B. **Setbacks:** Structures must adhere to the minimum necessary structure setback standards for the zoning district where the project is located; greater setbacks may be recommended. See Appendix A

C. **Utility Connections:** Reasonable efforts shall be made to place all utility connections from data or cryptocurrency facilities underground, depending on appropriate soil conditions, shape and topography of the site, distance to the connection, or other conditions or requirements.

D. **Regulations:** All structures shall be subject to bulk and height regulations in the underlying zoning district.

E. **Screening:** A landscape buffer may be required to be installed and maintained during the life of the operation. Determination of the screening requirements will be made by the Board of Adjustment as part of the review and approval process and will be based on adjacent or nearby surrounding land uses and topography.

F. **Signage:** Each cryptocurrency mining and data mining operation shall provide 24-hour emergency contact signage visible at the access entrance. Signs shall include company name, owner/representative name, telephone number, and corresponding local power company and telephone number. All additional signage must adhere to the Jones County Sign Ordinance, see Article XX.

G. **Lighting:** See Article XIX in the Jones County Zoning Ordinance.

H. **Noise:** Audible noise caused by data centers and cryptocurrency mining operations, not including existing ambient noise, shall not exceed sixty (60) dB continuously during daytime hours or a nighttime continuous sound level of fifty (50) dB.

1. In the event audible noise due to data centers and cryptocurrency mining operations contains a steady pure tone, such as a whine, screech or hum, the standards for audible noise set forth shall be reduced by five (5) dB.
2. Audible noise caused by data centers or cryptocurrency mining facilities shall not exceed sixty (60) dB for more than five minutes within an hour, when measured at the exterior of any residence, school, hospital, church, or public library existing on the date of approval of the permit.

3. In the event the ambient noise level (exclusive of the development in question) exceeds the applicable standard given above, the applicable standard shall be adjusted so as to equal the ambient noise level. The ambient noise level shall be expressed in terms of the highest whole number sound pressure level in dB, which is exceeded for more than five (5) minutes per hour. Ambient noise levels shall be measured at the exterior of potentially affected existing residences, schools, hospitals, churches, and public libraries. Ambient noise level measurement techniques shall employ all practical means of reducing the effect of generated noise at the microphone.

- a. In the event the noise levels resulting from data centers and cryptocurrency facilities exceed the criteria listed above, a waiver to said levels may be granted by the Board of Adjustment provided that the following has been accomplished.

1. Written waiver from the affected property owner has been obtained stating that they are aware of the data center or cryptocurrency facility and the noise limitations imposed by this Ordinance, and that consent is granted to allow noise levels to exceed the maximum limits otherwise allowed; and,

1. If the applicant wishes the waiver to apply to succeeding owners of the property, a permanent noise impact assessment shall be recorded in the office of the Jones County Recorder which describes the burdened properties and which advises all subsequent owners of the burdened property that the noise levels in excess of those permitted by this ordinance may exist on or at the burdened property.

I. **STRUCTURE:** All structures shall have concrete foundations

1. Shall not be defective, decayed, or corroded.
2. The use of cargo containers, railroad cars, semi-truck trailers, and other similar storage containers for any component of the operation are prohibited.
3. A clean agent fire protection system must be provided and maintained in good working order within any structure which contains a server farm. High sensitivity smoke detectors shall be installed and operational in order to activate the clean agent fire suppression system.

J. **ZONING:** Data centers and cryptocurrency mining facilities will only be located in the R2-Agricultural, C1-Commercial, C2-Highway Commercial, I-Industry, I2-Heavy Industrial zoning districts.

K. **COOLING SYSTEM:** Data centers and cryptocurrency mining facilities shall be required to have a liquid cooling system.

1. A closed loop cooling system will be required.
2. The application shall include an estimate of annual water consumption for the site.
3. The intended source of water for the development, and documentation from the Iowa Department of Natural Resources along with Jones County Environmental Health affirming sufficient water resources exist to serve the site.
4. All necessary permits must be obtained from Jones County Environmental Health and the Iowa Department of Natural Resources.

L. **EQUIPMENT:** All servers, computers, processors, materials, and equipment must be enclosed within buildings.

M. **ELECTRICITY POWER:** Prior to issuance of a permit, the applicant shall provide written verification from the power provider that the applicant has calculated the maximum potential electrical consumption of the proposed use and has verified the utility supply equipment and related electrical infrastructure is sufficiently sized and can safely accommodate the proposed use during the power provider's peak consumption hours.

N. Ice Mitigation Report: Any data center or cryptocurrency facility shall insure that the amount of heat that is dissipated by the mining activity shall be monitored when the average daily temperature is 40 degrees Fahrenheit or less to ensure that there is no buildup of ice on neighboring properties and roadways.

1. In the instance that condensation and ice occur, there shall be an agreement between the facility's operational contact, owners of neighboring properties, and the County Engineer to mitigate ice on public right of way.

SECTION 7: DISCONTINUANCE, DECOMMISSIONING AND ABANDONMENT

The application must include a decommissioning plan that describes the anticipated life of the facility and the manner in which the project will be decommissioned; the site restoration actions; removal of equipment, the estimated costs in current dollars; and the method for ensuring that funds will be available for decommissioning and restoration.

Following a continuous one-year period in which no mining is generated, or if substantial action on the project is discontinued for a period of one year, the permit holder or successor and, inversely, will have one year to complete decommissioning of the data or cryptocurrency facility. Decommissioning shall be completed in accordance with the approved decommissioning plan. The landowner or tenant must notify the County when the project is discontinued.

LINN COUNTY, IOWA

Prepared by Linn County Planning & Development
935 2nd Street S.W., Cedar Rapids, Iowa 52404-2100
(319) 892-5130
Return to Amanda Brown, Auditor's Office

LINN COUNTY ORDINANCE # _____

AN ORDINANCE AMENDING THE CODE OF ORDINANCES, LINN COUNTY, IOWA, BY MODIFYING PROVISIONS IN CHAPTER 107 ARTICLE VII SECTION 107-131 REGARDING DISTRICTS AND DISTRICT BOUNDARIES, ARTICLE VII SECTION 107-151 REGARDING EU-3 EXCLUSIVE USE THREE LARGE-SCALE DATA CENTERS DISTRICT, ARTICLE VIII SECTION 107-147-1 USE TABLE AND ARTICLE IX SECTION 107-180 REGARDING DEFINITIONS RELATED TO DATA CENTERS

BE IT ORDAINED by the Board of Supervisors, Linn County, Iowa as follows:

SECTION 1, SUBSECTION ADDED. Chapter 107, Article VI, Section 107-116 Standards for Industrial Uses § (e) is hereby added to read as follows:

(e) Small-Scale Data Center and other similar uses. Small-scale data centers and other similar uses shall meet the requirements found in Section 107-151 § (c) through (m) of this chapter.

SECTION 2, SUBSECTION MODIFIED. Chapter 107, Article VII, Section 107-131 Districts and District Boundaries § (b) is hereby amended to include the EU-3 Exclusive Use District as follows:

(19) EU-3 Exclusive Use Three, Large-Scale Data Center District

SECTION 3, SECTION ADDED. Chapter 107, Article VII, Section 107-151 EU-3 Exclusive Use Three, Large-Scale Data Center District is hereby added to read as follows:

(a) Purpose. The purpose of the EU-3 Exclusive Use Three, Large-Scale Data Center District is to provide a clear, comprehensive, and predictable regulatory framework for the siting and operation of large-scale data centers within unincorporated Linn County. Large-scale data

- centers are characterized by substantial long term demands on public infrastructure, including electrical power, water supply, transportation systems, and emergency services, as well as potential impacts on surrounding land uses and environmental resources. This district is intended to ensure that such facilities are evaluated, located, and developed in a manner consistent with the Comprehensive Plan, that their infrastructure and operational impacts are appropriately reviewed and mitigated, and that the County can fulfill its long-term fiscal, infrastructure, and community responsibilities associated with hosting generational infrastructure facilities.
- (b) **Principal permitted use.**
 - (1) Large scale Data Centers.
 - (c) **Accessory Uses.**
 - (1) Battery energy storage systems (BESS).
 - (2) Solar arrays and other similar on-site renewable power generation systems.
 - (3) On-site standby or backup power generation.
 - (4) Electrical substations, switchyards, or power distribution equipment.
 - (5) District energy or microgrid infrastructure.
 - (6) Water treatment and recycling facilities.
 - (7) Office, maintenance, and employee support facilities incidental to the data center.
 - (d) **Major site plan required.** A major site plan shall be submitted and reviewed prior to the approval of a large-scale data center. A large-scale data center shall require rezoning to the EU-3 zoning district, unless already located within such EU-3 zoning district.
 - (e) **Additional information.**
 - (1) The following information shall be submitted on the major site plan, or in narrative form, supplied by the applicant with any application for rezoning to the EU-3 zoning district.
 - a. Legal description of all properties leased and/or owned, that are identified to be part of the project area.
 - b. A description of the project including development timeline, location of buildings, parking, approximate number of employees.
 - c. **Water Study.** A water study shall be submitted demonstrating that sufficient water resources are available to support the proposed use as described in Section 107-151 § (n)(1) below.
 - d. **Economic Development Agreement.** The applicant shall enter into an Economic Development Agreement ("EDA") with the County, approved by the Board or Supervisors as described in Section 107-151 § (n) below.
 - (2) The following information shall be submitted prior to issuance of the first building permit for the data center.
 - a. Planned location of underground or overhead electric lines, grid interconnection points, project entrances, staging areas, and access roads required during construction and post construction.
 - b. **Waste Management Plan.** A Waste Management Plan detailing how construction waste will be handled during the construction period. The plan shall include:
 - i. Estimated volumes and types of materials to be generated.
 - ii. Identification of materials proposed for recycling, salvage, or reuse.
 - iii. Designated recycling and disposal facilities.
 - iv. Procedures for on-site material separation and storage.
 - v. Documentation requirements demonstrating final disposal or diversion.
 - c. Written verification from their proposed power provider that the applicant has calculated the maximum planned electrical consumption of the proposed use and has verified the utility supply and related electrical infrastructure is sufficient to accommodate the applicant's proposed use.
 - d. **Lighting Plan.** A lighting plan shall be submitted providing details of the light spread and intensity diagrams, fixture specifications and mounting height details. Any lighting used for outdoor illumination on the property shall be full-cutoff fixtures so that light does not shine upward nor adversely impact adjoining property.
 - e. A description of a backup power plan describing the fuel source and expected usage of any standby, backup, or temporary power generation systems. The plan shall identify the anticipated number and size of generators or other power units, anticipated testing frequency and duration, anticipated noise and emission control measures, and anticipated fuel storage or delivery methods. The plan shall demonstrate the data center will comply with all applicable local, state and federal permitting requirements.
 - f. **Road use agreement.** An approved Road Use Agreement containing the information and conditions specified in section 107-151§ (k) below is required before the start of construction.
 - g. **Pre-construction noise analysis.** Completed analysis shall be submitted in accordance with 107-151§ (l) below.
 - h. **Water Use Agreement.** The applicant shall submit a water use agreement to govern ongoing coordination between the applicant and the County regarding water use during operation of the facility as described in Section 107-151 § (n)(2) below.
 - i. **Emergency Response Plan.** The applicant shall submit an emergency response plan as described in Section 107-151 § (p) below.
 - j. Site and structure requirements, including:
 - i. Stormwater management plan.
 - ii. Stormwater pollution prevention plan.
 - iii. Erosion and sediment control plan.
 - iv. All Data Center production equipment (computers, servers, etc.) shall comply with Building Code requirements. Said structure(s) shall be placed on a permanent foundation.
 - (3) For any data center facility consisting of one or more buildings (whether constructed simultaneously or in separate phases), the applicant shall not be required to submit or resubmit the items referenced in sections 107-151 §(e)(2)(a)-(f) as to any building

or phase of buildings constructed after the initial building permit is issued, if such building or phase of buildings were contemplated on the relevant submission delivered under said sections 107-151 §(e)(2)(a)-(f) in connection with the first building permit issued for the data center and the scope and footprint of the project has not substantially changed from the time of initial submission.

(f) **Required setbacks.**

- (1) 200 feet to property lines.
- (2) 1,000 feet (measured from the closest outer wall of the closest building on the data center property) to the closest outer wall of a place of public assembly and to the property line of any residentially zoned property, including residentially zoned properties within city limits. The Board of Supervisors, in consultation with any impacted city, may reduce this setback with a majority vote. Impacted city means any city with residentially zoned property within 1,000 feet of the closest outer wall of the closest building on the data center property. Residentially owned property does not include properties in the agricultural, critical natural resources, commercial, or industrial zoning districts.

(g) **Street access.** The site shall have access to a hard surfaced road of sufficient capacity to accommodate the traffic that the use will generate, with continuous hard surfaced connection to a county arterial, or state or federal highway.

(h) **Access.** Vehicular access points shall create a minimum of conflict with through traffic movement.

(i) **Parking, Parking and loading shall meet the standards in section 107-93 §(e).**

(j) **Buffers.** Buffers shall be installed meeting the standards in section 107-93 § (d). In addition, lot frontage on a public street shall be separated from the edge of sidewalk or pavement by a landscaped yard of at least 20 feet in width, except where driveway accesses occur.

(k) **Avoidance and mitigation of damages to public infrastructure.**

- (1) **Roads.** Applicants shall identify all roads planned to be used for the purpose of transporting equipment for construction, operation or maintenance of the data center and obtain applicable weight and size permits from the impacted road authority prior to construction.

- (2) **Existing road conditions.** Applicant shall conduct and provide evidence of a pre-construction roadway conditions survey in coordination with the Linn County Secondary Road Department, to determine baseline road conditions and authority. The survey shall adequately document all road, road right-of-way, and public drainage infrastructure conditions requested for use during all phases of construction. Applicants shall enter into a Road Use Agreement with Linn County Secondary Road Department that clearly details responsibilities for on-going road maintenance and dust control measures for all identified Linn County jurisdictional roads during all phases of construction. The Road Use Agreement may require certain applicant and county undertakings, including but not limited to providing financial assurance in the form of an irrevocable letter of credit, bond, cash, escrow, parent guarantee or other form of security or guaranty acceptable to Linn County. At construction completion, Applicant shall, unless otherwise provided in the applicable Road Use Agreement, conduct and provide evidence of a post-construction roadway conditions survey, in accordance with the Road Use Agreement and in coordination with the Linn County

Secondary Road Department, to verify that road conditions, to the extent impacted by applicants use in the construction of its data center, have been restored, as far as reasonably practical, to pre-construction conditions or as otherwise required by the Road Use Agreement.

- (3) **Drainage system.** The applicant shall be responsible for repair of damage to public drainage systems stemming from construction, operation or maintenance of the data center. Applicant shall acknowledge any damage to public drainage systems and the responsibility for repair in a timely manner within 72 hours of damage discovery.

- (4) **Road Use Agreement.** An approved Road Use Agreement containing the information and conditions specified in this section is required before the start of construction.

- (i) **Noise Analysis.** No operating data center equipment shall produce decibel levels exceeding any of the following limitations, with the exception of initial construction and routine maintenance. Adequate setbacks and effective sound mitigating equipment shall be used to comply with these limitations:

- (1) The average hourly noise level shall not exceed fifty-five (55) dBA or sixty-five (65) dBC as measured from the outer wall of any occupied structure within residentially zoned property adjacent to the proposed development. For property adjacent to the proposed development that is not residentially zoned, the average hourly noise level shall not exceed sixty-five (65) dBA or seventy-five (75) dBC as measured from the outer wall of any occupied structure. The average decibel limit is specific to source of the sound and does not count against cumulative ambient decibel levels as established in a baseline acoustic evaluation.

- (2) Equipment testing, maintenance activities, and construction activities that generate elevated noise, including generator testing, shall be limited to the hours of 8:00 a.m. to 6:00 p.m., Monday through Friday, unless otherwise approved by the Zoning Administrator. County approval for excessive noise generation shall not be unreasonably withheld.

- (3) The average hourly decibel level may be exceeded during short-term events such as severe windstorms.

- (4) A pre- and post-construction noise evaluation shall be completed by a certified professional by the Institute of Noise Control Engineering (INCE), or a licensed Professional Engineer (PE) to verify compliance with the County's standards. The post-construction noise evaluation shall be completed after completion of all planned data center buildings at the end of construction (as defined in section 107-151(f)(5)).

- (5) Commencing on the fifth anniversary of the end of construction, as defined hereafter, and continuing every five years thereafter, for so long as the data center operates, a noise evaluation shall be completed at the operator's expense by a certified professional by the Institute of Noise Control Engineering (INCE), or a licensed professional engineer (PE) to verify compliance with the county's standards in section 107-151(f)(1). Completion of all data center buildings, or end of construction, means the date on which all of the following have occurred: completion of construction of the data center or, in the case of a phased or multi-building campus, all buildings of the multi-building data center campus, and issuance of a certificate of occupancy for all related buildings; and the data center operator has communicated, in writing, to the Zoning Administrator that it has completed the data center campus; provided, that, if all construction has stopped on the property for more than six (6) consecutive calendar months, other than due to delays by the

- County in processing related permits or approvals, then "end of construction" as used herein shall be deemed to have occurred as of the last day of such calendar month. This six-month time frame may be extended by the Zoning Administrator.
- (6) The owner(s) of adjacent property may voluntarily agree, by written and recorded waiver, to a higher average hourly decibel level than those allowed within this subsection.
- (m) *Confidentiality and Open Records Compliance.* If an applicant submits information it believes to be a trade secret or otherwise confidential under Iowa Code Section 22.7 the applicant shall clearly identify such information at the time of submittal and provide the County with a written basis under Iowa Code Section 22.7 of why any and all information provided to the County is marked confidential. The County will treat such information in accordance with the Iowa Open Records Act, including the exemptions provided under Iowa Code Section 22.7, as amended. The County may disclose such information to staff or contracted reviewers solely for the purpose of evaluating compliance with this ordinance, subject to applicable confidentiality obligations. Notwithstanding this subsection, applicant acknowledges and understands that the County may only legally keep information confidential pursuant to Iowa Code Section 22.7.
- (n) *Water Supply and Sustainability Review.* Approval for large-scale data center projects shall be conditioned on the applicant demonstrating there is sufficient reliable water supply to meet all projected water demands without undue adverse impacts on existing users, aquifers, or watersheds. To demonstrate this, the applicant must comply with the following requirements:
- (1) As part of any application for rezoning, special use permit, or other discretionary land use approval for a data center, the applicant shall submit a Water Study. The purpose of this plan is to demonstrate, at a planning-level, that sufficient water resources are available to support the proposed use without causing undue adverse impacts to existing water users, groundwater resources, or surface water systems. The plan shall describe the proposed water source(s), anticipated ranges of water demand, assumptions regarding cooling technologies, efficiency measures, system reliability considerations, and general contingency approaches for water supply interruptions or emergencies. The plan shall be prepared by a qualified professional and shall contain sufficient information to allow the County, reviewing bodies, and the public to understand and evaluate the potential water impacts of the proposed use.
 - (2) Prior to issuance of any building permit for a data center, the applicant shall enter into a Water Use Agreement with Linn County. The purpose of the Water Use Agreement is to govern ongoing coordination between the applicant and the County regarding water use during operation of the facility. The agreement shall address, at a minimum, water use monitoring, reporting frequency, data sharing protocols, and verification of compliance with applicable permits and approvals. The agreement may also include provisions addressing response procedures during periods of water supply constraint, drought, emergency conditions, or other circumstances in which water use reductions or operational adjustments may be necessary to protect public health, safety, or existing water users. The Water Use Agreement may include additional terms related to adaptive management, mitigation measures, and enforcement as determined appropriate by the County and Applicant. The Water Use Agreement shall also require the Applicant to demonstrate coordination with the Iowa Department of Natural Resources (DNR) regarding applicable water use permits, interference mitigation procedures, monitoring obligations, and compliance procedures.
- (c) *Economic Development Agreement.* Prior to or contemporaneously with the rezoning to the EU-3 zoning district, the applicant of a large-scale data center shall enter into an Economic Development Agreement ("EDA") with the County approved by the Board of Supervisors. The purpose of the EDA is to establish ongoing cooperation between the County and the project operator, a description of any incentives that the project operator will receive (subject to the terms of the EDA), and to provide ongoing contributions that advance the County's fiscal, infrastructure, and community goals related to hosting large-scale data center facilities. The County shall retain full reasonable discretion to determine the form, structure, and use of funds or benefits provided under any EDA. At a minimum, the agreement shall provide for the creation of a Community Betterment Fund or similar mechanism to support public infrastructure, services, environmental protection, workforce development, or other community benefits, as determined by the Board of Supervisors. Additionally, as part of the EDA, the applicant shall consider implementing a Property Value Protection Plan. The purpose of the Property Value Protection Plan is to address potential impacts to nearby residential property values associated with the development and operation of the data center. Nothing in this section shall limit the County's authority to negotiate terms appropriate to the scale, location, and nature of a specific project, or to enter into separate agreements addressing road use, infrastructure improvements, or other matters related to the development of the large-scale data center.
- (p) *Emergency Response Plan.* The applicant shall submit an emergency response plan prior to any ground disturbance at the project site detailing the planned response actions that will be taken by facility representatives in the event of an emergency. These actions are intended to minimize health risks to personnel and people in the surrounding community, as well as minimize adverse impacts to the environment.
1. The plan shall include, but is not limited to, a detailed narrative of response procedures and the facility representative responsible for management of the following plausible contingencies that could occur at the facility: natural disaster/severe weather, fire, security incident, capacity/transmission, environmental, chemical, pipeline (if applicable), and medical. It shall include procedures for a site evacuation, designated egress routes and emergency staging areas.
 2. The plan shall include a stand-alone section detailing the emergency response protocols specific to battery energy storage areas (if applicable).
 3. The plan shall be developed in coordination with local first responders, Linn County Emergency Management & Linn County Public Health personnel.
 4. Notwithstanding anything in this section to the contrary, the applicant may redact confidential or proprietary information from any submission hereunder.
- (q) *Notification Requirements.* To assist in providing adequate notice to interested parties, the applicant for a rezoning to the EU-3 District shall:
- (1) Within 14 days of filing the rezoning application with the planning and development department, mail a notice via first class mail to property owners and tenants within 1,000 feet of the subject site explaining the request and identifying the subject property.

- (2) Prior to the application being heard at the planning and zoning commission meeting, the applicant shall host a public informational meeting held at a location reasonably accessible to all identified property owners. Applicants must mail a notice of the public informational meeting via first class mail to property owners and tenants within 1,000 feet of the subject site.
- a. Applicants must submit a list of the property owners and tenants contacted, a copy of the notice sent, and a notarized affidavit stipulating to the mailing to the planning and development department.

SECTION 4, SECTION MODIFIED Chapter 107, Article VII, Section 107-14.7-1 Use Table is hereby amended to read as follows:

Transportation and Utility Uses	STD	AG	RR	VR	VA	USR	MF	HC	GC	CNR	MH
Utility generating plants and facilities (except wind farms, utility scale solar, gas-fired electric generating facilities, and nuclear energy generating facilities)		C						C	C	C	
Gas-fired electric generating facilities, nuclear energy generating facilities and nuclear waste storage											
See article VII, EU 2 Gas fired Electric Generating Facilities, Nuclear Energy Generating Facilities and Nuclear Waste Storage District											
Industrial	STD	AG	RR	VR	VA	USR	MF	HC	GC	CNR	MH
Data Centers	Small scale data center	107-116 (e)	C							C	C
	Large scale data center	See article VII, EU 3 Large Scale Data Center District									

SECTION 5, SECTION MODIFIED. Chapter 107, Article IX, Section 107-180 Definitions is hereby amended to add the following definitions:

Data center means a facility consisting of one or more buildings (whether constructed simultaneously or in separate phases) used primarily for the storage, management, processing, and transmission of digital data, which houses computer or network equipment, systems, servers, appliances, and other associated components related to digital data

storage and operations. Data center includes commercial cryptocurrency mining operations and processing.

Small-scale data center means a data center that has an electrical design capacity of 20 MW or less, and that uses less than 50 gallons per minute of water or less on an annualized basis. For the purposes of determining compliance with power and water usage thresholds in this ordinance, all data center buildings that are part of a phased or multi-building campus shall be evaluated in the aggregate, regardless of whether such buildings are constructed simultaneously or in separate phases.

Large-scale data center means a data center that has an electrical design capacity greater than 20 MW or that uses more than 50 gallons per minute of water on an annualized basis. For the purposes of determining compliance with power and water usage thresholds in this ordinance, all data center buildings that are part of a phased or multi-building campus shall be evaluated in the aggregate, regardless of whether such buildings are constructed simultaneously or in separate phases.

Places of Public Assembly means buildings or facilities where people gather for civic, educational, religious, or cultural purposes, including, but not limited to retirement and nursing homes, schools, childcare homes and centers, group homes, hospitals, detention facilities, or human service facilities, not including facilities allowed as an accessory use to the principal use in question.

SECTION 6, REPEALER. All ordinances or parts of ordinances in conflict with this ordinance are hereby repealed.

SECTION 7, SEVERABILITY. If any section, provision or part of this ordinance shall be adjudged invalid or unconstitutional, such adjudication shall not affect the validity of the ordinance as a whole or any section, provision or part thereof not adjudged invalid or unconstitutional.

SECTION 8, SAVING. The Code of Ordinances, Linn County, Iowa, shall remain in full force and effect, save and except as amended by this ordinance.

SECTION 9, EFFECTIVE DATE. This ordinance shall be in effect after its final passage, approval and publication as provided by law.

LINN COUNTY BOARD OF SUPERVISORS

Kristen Running-Merquardt, Chair

Samt Schaez, Vice Chair

Brandy Z. Meisler, Supervisor

I, Linn County Auditor, hereby certify that the above and foregoing is a true copy of an ordinance passed by the Linn County Board of Supervisors.

Todd Taylor, Linn County Auditor

STATE OF IOWA
COUNTY OF LINN

This instrument was acknowledged before me on the ____ day of _____, 2026, by Todd Taylor as Linn County Auditor.

Notary Public, State of Iowa

Planning & Zoning Commission on the 20th day of JANUARY, 2026.

Public hearing and first consideration on the 4th day of FEBRUARY, 2026.

Second consideration on the 16th day of FEBRUARY, 2026.

Third consideration and final passage on the 18th day of FEBRUARY, 2026.

Published in the Gazette on the ____ day of _____, 2026.

MONOMA COUNTY, IOWA

100.37 DIGITAL CURRENCY MINING AND/OR DATA CENTER FACILITY. The intent of the regulations of this Section is to balance the need for digital currency needs with the need to protect the public health, safety, and welfare of the residents of Monoma County, and to avoid unmitigated impacts on resources and adjacent uses. No operation may be developed without site plan review and verification by the planning and zoning department that all requirements within this ordinance have been met.

A. All structures used for the facilities shall meet the following standards:

1. The use of cargo containers is permissible; the container needs to be in good condition. The use of railroad cars and semi-truck trailers is prohibited.
2. Facilities will be allowed with a Special Use permit with restrictions in the Agricultural District (A-1), Rural Residential District (R-1), Light Industrial District (M-1) and Heavy Industrial District (M-2).
3. The required setbacks are listed in Section 100.17 Bulk Regulations and will be followed for each district.

B. The noise generated from the facility, components and equipment, shall not exceed a daytime continuous sound level of sixty decibels (60 dBA) or a nighttime continuous sound level of fifty decibels (50 dBA) at any occupied residential or commercial building.

C. All plans for these facilities will include, but are not limited to:

1. Monoma County Special Use Permit with Restrictions Application.
2. A letter from the local power provider that the applicant has verified the utility supply, and they can safely accommodate the proposed use during the power provider's peak consumption hours.
3. A report from a county approved professional engineer with the noise results will be provided to the county zoning administrator. This report is due within thirty (30) days after the start-up of the facility. The costs associated with this report will be the responsibility of the applicant. All servers, computers, processors, materials, and equipment must be enclosed within the structure.
4. Each facility structure shall have 24-hour emergency contact signage that contains the Company name, phone number and Power Company name that are visible at the access entrance. Monoma County 911 addresses will be required for all sites.
5. An emergency response plan will be submitted with the permit application. There shall be an emergency termination switch install outside of any containment structure and appropriately signed so that responding public safety officials can quickly identify it. Structures shall have some type of fire detection/suppression system.
6. A decommission plan for the facility will be submitted with the permit application.

MUSCATINE COUNTY, IOWA



Prepared by and Return to: Muscatine County Administration Office, 414 E. Third St., Ste. 101, Muscatine, IA 52761 564263-3317

ORDINANCE #05-12-25-01
AMENDING THE MUSCATINE COUNTY ZONING ORDINANCE RELATING TO DATA CENTERS & CRYPTOCURRENCY MINING

BE IT HEREBY ORDAINED by the Muscatine County Board of Supervisors:

Section 1. Amendment. The Muscatine County Code of Ordinances, Title III, Chapter II, is amend by the adoption of the following:

Article I, Section 3, Definitions:

Cryptocurrency mining or production installations and Data Center: A physical facility that uses computing and networking equipment to collect, store and process data, as well as distribute and access resources. It may also include supporting equipment such as batteries, back-up generators and cooling equipment.

Article X, Section 3: 3.9 Cryptocurrency mining or production

facilities and Data Centers

Article XI, Section 3: 3.28 Cryptocurrency mining or production

facilities and Data Centers

A Cryptocurrency mining or production installation or Data Center is a Special Permitted Use in the in the I-1 and I-2 Industrial Districts.

Section 2. Severability. If any section, provision, or part of this ordinance shall be adjudged invalid or unconstitutional, such adjudication shall not affect the validity of the regulations as a whole or any section, provision, or part thereof not adjudged invalid or unconstitutional.

Section 3. Effective Date. This ordinance shall take effect upon its publication as required by law.

Section 4. Conflict with Provisions. All ordinances or parts of ordinances in conflict with the provisions of this ordinance are hereby repealed.

PASSED, APPROVED AND ORDAINED this 12th day of May, 2025.

ATTEST:


Shannon Steele
Administrative/Elections Clerk


Nathan Mather, Chairperson
Muscatine County Board of Supervisors

OSCEOLA COUNTY, IOWA

ORDINANCE NO. 66

AN ORDINANCE AMENDING THE 2013 ZONING ORDINANCE FOR OSCEOLA COUNTY, IOWA ZONING ORDINANCE BY AMENDING ARTICLE III, DEFINITIONS AND ARTICLE XI, (G) GENERAL INDUSTRIAL DISTRICT TO INCLUDE REGULATIONS FOR DATA CENTERS

WHEREAS, the zoning ordinance on file in the office of the County Auditor designates certain standards as provided by Chapter 335, Iowa Code; and

WHEREAS, it is deemed advisable and recommended by the Osceola County Planning and Zoning Commission to amend Article III definitions and Article XI (G) General Industrial District to add regulations for data centers.

NOW, THEREFORE, BE IT ORDAINED, by the Osceola County Board of Supervisors:

SECTION 1. ADD NEW ZONING DEFINITION. The Osceola County Zoning Ordinance is hereby amended by adding the following new zoning definition to section 3.2.5, Industrial Zoning Definitions:

DATA CENTER: A building or other structure rehabilitated or constructed to house a group of networked server computers in one physical location in order to centralize the storage, management, and dissemination of data and information pertaining to a particular business, taxonomy, or body of knowledge. A data center provides computer processing for uses including but not limited to cloud storage, cryptocurrency mining, and artificial intelligence. "Data Center" also includes the lease of a business facility leased by an entity operating a data center business at that location.

SECTION 2. PRINCIPAL PERMITTED USE. The Osceola County Zoning Ordinance is hereby amended by adding the following new principal permitted use to section 11.2.

Data Center is allowed as an industrial use

SECTION 6. SEVERABILITY. If any provision or portion of this Ordinance be declared unconstitutional, or be otherwise voided, such a finding shall not invalidate other provisions of this Ordinance.

SECTION 7. REPEALER. All ordinances or parts of previous ordinances in conflict with the provisions of this right of way ordinance are hereby repealed.

SECTION 8. EFFECTIVE DATE. This ordinance shall be in full force and effect from and after its adoption and publication as required by law and as provided for in Chapter 380.6 and 380.7 of the Code of Iowa, (Code of Iowa, Sec. 380.6(1); Sec. 380.7(3); and Sec. 362.3)

ADOPTION

Passed and approved of the first consideration on June 9, 2026.

Passed and approved of the second consideration on held on June 9, 2026.

Passed and approved of the third consideration on waived on June 9, 2026.

Adopted on June 9, 2026

Published on June 3, 2026


Jerry Helmer, Chairperson, Board of Supervisors

Attest:


Rochelle Van Tilburg
Osceola County Auditor

I certify that the foregoing was published as Ordinance No. 16 on the 3rd of June, 2024.

Rochelle Van Tilburg

Adoption:

Passed and approved by motion of the first ordinance reading on

Passed and approved by motion of the second ordinance reading on

Passed and approved by motion of the third ordinance reading on

June 9, 2026
held on June 9, 2026
waived on June 9, 2026

STORY COUNTY, IOWA

DO NOT WRITE IN THE SPACE ABOVE. RESERVED FOR RECORDER
Prepared By: Leanne Heller, Story County Planning and Development, 900 8th Street, Nevada, IA 52051 (515) 382-7245

Please return to:
Planning & Development

STORY COUNTY IOWA
ORDINANCE NO. 330
AN ORDINANCE AMENDING CHAPTER 85, GENERAL PROVISIONS AND
DEFINITIONS; CHAPTER 86, DISTRICT REQUIREMENTS; CHAPTER 88, GENERAL
SITE PLANNING STANDARDS; AND CHAPTER 90, CONDITIONAL USES OF THE
STORY COUNTY CODE OF ORDINANCES – LAND DEVELOPMENT
REGULATIONS FOR A TEXT AMENDMENT TO ADDRESS USES FOR DIGITAL
ASSET MINING, CRYPTOCURRENCY OPERATIONS, DATA PROCESSING
CENTERS AND/OR BATTERY/ENERGY STORAGE SOLUTIONS ON PROPERTIES
LOCATED IN UNINCORPORATED STORY COUNTY

BE IT ENACTED by the Board of Supervisors of Story County, Iowa:

Section 1. Purpose. An Ordinance Amending Chapter 85, General Provisions and Definitions; Chapter 86, District Requirements; Chapter 88, General Site Planning Standards; and Chapter 90, Conditional Uses Of The Story County Code of Ordinances— Land Development Regulations For A Text Amendment To Address Uses for Digital Asset Mining, Cryptocurrency Operations, Data Processing Centers and/or Battery/Energy Storage Solutions on properties located in unincorporated Story County.

Section 2. Proposed Amendments. The amendments are as shown in Attachment A of this ordinance.

Section 3. Repealer. All ordinances or parts of ordinances in conflict with the provisions of this ordinance are hereby repealed.

Section 4. Savings Clause. If any section, provision, or part of this ordinance shall be adjudged invalid or unconstitutional, such adjudication shall not affect the validity of the ordinance as a whole or any section, provision or part thereof not adjudged invalid or unconstitutional.

Section 5. Effective Date. This ordinance shall be effective after its final passage, approval and publication of the ordinance or a summary thereof, as provided by law.

Action upon FIRST Consideration: _____
DATE: March 3, 2026

Moved by: _____
Seconded by: _____
Voting Aye: _____
Voting Nay: _____
Not Voting: _____
Absent: _____

Action upon SECOND Consideration: _____
DATE: March 10, 2026

Moved by: _____
Seconded by: _____
Voting Aye: _____
Voting Nay: _____
Not Voting: _____
Absent: _____

Action upon THIRD Consideration: _____
DATE: March 17, 2026

Moved by: _____
Seconded by: _____
Voting Aye: _____
Voting Nay: _____
Not Voting: _____
Absent: _____

ADOPTED THIS _____ day of _____, _____.

ATTACHMENT A

Attest:

Chairperson, Board of Supervisors

County Auditor _____

ROLL CALL
FOR ALLOWANCE

Lailiah Faisil	Yea	____	Nay	____	Absent	____
Lisa Heddens	Yea	____	Nay	____	Absent	____
Linda Murken	Yea	____	Nay	____	Absent	____

ALLOWED BY VOTE
OF BOARD

Yea ____ Nay ____ Absent ____

CHAIRPERSON _____

Above tabulation made by _____

**CHAPTER 85
LAND DEVELOPMENT REGULATIONS: GENERAL PROVISIONS AND DEFINITIONS**

85.07 EXEMPTIONS.

3. Public Utilities Exempt. No requirement, restriction, or regulation contained in the Ordinance shall be construed to control the type or location of any poles, towers, wires, water or sewer lines, gas mains, cables, or any other similar distributing equipment of a public utility, County, state, and federal road projects for the maintenance and/or construction of public roads and public road right-of-way shall also be considered exempt. Battery Energy Storage Systems are not considered routine utility distribution equipment or essential services for zoning purposes.

85.08 DEFINITIONS.

"Accessory BESS (Co-located)" means a battery energy storage system that is ancillary to another primary use of the property. Examples include a BESS co-located with a renewable energy generation facility (solar farm or wind farm) to store generated power, batteries that store electricity for on-site use (peak shaving, backup power), or batteries providing electric grid services at an existing substation. An accessory BESS is subordinate in size and purpose to the main use on the site. These are also often referred to as Hybrid BESS.

"Activities or Activities Projects" means solar sites that combine agricultural uses with generating electricity within the project area to maximize land use and offer mutual production benefits.

"ANSI" means the American National Standards Institute.

"Augmentation" means the process of supplementing or replacing some or all of the system components to maintain the nameplate capacity (measured in megawatts).

"Battery Energy Storage Management System" means an electronic system that protects energy storage systems from operating outside their safe operating parameters and disconnects electrical power to the energy storage system or pieces of it in a safe condition if potentially hazardous temperatures or other conditions are detected.

"Battery Energy Storage System (BESS)" means one or more devices, assembled together, capable of storing and discharging electricity primarily intended to supply electricity to a building or to the electrical grid. This includes, but is not limited to, the following: battery cells; enclosures and dedicated-use buildings; thermal, battery, and energy management system components; inverters; access roads; distribution, collection, and feeder lines; wires and cables; conduit; loadings; foundations; lowers; poles; crossarms; guy lines and anchors; substations; interconnection or switching facilities; circuit breakers and transformers; overhead and underground control, communications and radio relay systems; and telecommunications equipment, utility lines and installations; and accessory equipment and structures. A BESS does not include a stand-alone 12-volt car battery or an electric motor vehicle. A BESS is classified as a Tier 1 or Tier 2 (Utility Scale) BESS as follows:

- a. Tier 1 BESS have an aggregate energy capacity less than or equal to 600kWh and, if in a room or enclosed area, consist only of a single energy store system technology.
 - b. Tier 2 (Utility Scale) BESS have an aggregate energy capacity greater than 600kWh or are comprised of more than one storage battery technology in a room or enclosed area.
- "BESS Dedicated-Use Building" means a building or structure that is only used for BESS components and equipment, is classified as Group F-1 occupancy, as defined in the International Building Code, and complies with the following:

- a. The building's only use is battery energy storage, energy generation, and other electrical grid-related operations.
- b. No other occupancy types are permitted in the building.
- c. Occupants in the rooms and areas containing BESS are limited to personnel that operate, maintain, service, test, and repair the BESS and other energy systems.
- d. Administrative and support personnel are permitted in areas within the buildings that do not contain BESS, provided that these areas do not occupy more than ten (10) percent of the building area of the story in which they are located, and a means of egress is provided from the administrative and support use areas to the public way that does not require occupants to traverse through areas containing BESS or other energy systems equipment.

"BESS Participating Property" means a BESS host property or any real property that is the subject of an agreement that provides for the payment of monetary compensation to the landowner from the BESS owner (or affiliate) regardless of whether any part of a BESS is constructed on the property.

"Clean Agent Fire Suppression System" means a system that uses electrically nonconductive gaseous agents that do not leave residue upon evaporation to extinguish fires.

"Closed-loop Cooling System" means a sealed system where a coolant circulates continuously, absorbing heat from a source, and then transferring that heat to a heat exchanger for removal, without the coolant ever being exposed to the environment. A closed-loop system shall not use evaporative cooling. It may consist of methods including, but not limited to, air-cooled (dry) cooling, rear-door heat exchanger cooling, hybrid dry economizer cooling, direct-to-chip cooling, or immersion cooling.

"Commercial Cryptocurrency Mining" means the commercial process by which cryptocurrency transactions are verified and added to the public ledger, known as the block chain, and the means through which new units of cryptocurrencies are released through the use of server farms. Any equipment requiring a high-density load service, for the purposes of operating a cryptocurrency mining server farm, will constitute a commercial cryptocurrency mining operation.

"Commercial Solar Energy System" (C-SES) means a solar energy generation facility, solar collection system, or area of land comprised of a solar energy device, array of devices, or structural design feature, principally used to provide for the generation of energy distributed into

the electrical grid and not intended to primarily reduce on-site consumption of utility power with the following scales: Community/Commercial at 15 MW-1 MW, and Utility-Scale at >1 MW.

"Commissioning" means a systematic process that provides documented confirmation that installed systems function according to the intended design criteria and comply with applicable code requirements.

"Community Noise Equivalent Level (CNEL)" means the 24-hour A-weighted average sound level from midnight to midnight, obtained after the addition of 5 dB to sound levels occurring in the evening from 7 PM to 10 PM and after the addition of 10 dB to sound levels occurring in the night between 10 PM and 7 AM.

"Cryptocurrency" means a digital currency in which encryption techniques are used to regulate the generation of units of currency and to verify the transfer of funds while operating independently of a central bank.

"Cryptocurrency Data Center (CDC)" means the leased or owned boundaries of floor space devoted to the operating data processing equipment for commercial cryptocurrency mining, excluding spaces for data centers not otherwise engaged in commercial cryptocurrency mining, commercial offices, storage, shipping and receiving, warehousing, or any other space that is not electronic processing.

"Cryptocurrency Mining or Production Installations associated with a Data Center" means a physical facility that uses computing and networking equipment to collect, store and process data, as well as distribute and access resources. It may also include supporting equipment such as batteries, back-up generators and cooling equipment.

"Cryptocurrency Server Farm" means three or more interconnected computers housed together in a single facility either air-cooled or water cooled, whose primary function is to perform cryptocurrency mining or associated data processing.

"Data Center (DC)" means a facility used primarily for the storage, management, processing, and transmission of digital data, which houses computer or network equipment, systems, servers, appliances and other associated components related to digital data operations. The facility may also include air handlers, power generators, water cooling and storage facilities, utility substations, and other associated utility infrastructure to support sustained operations at the Data Center.

"Data Center Accessory Use" means the ancillary uses or structures secondary and incidental to a Data Center use, including but not limited to: administrative, logistical, fiber optic, storage, and security buildings or structures; sources of electrical power such as generators used to provide temporary power when the main source of power is interrupted; electrical substations; utility lines, domestic and non-contact cooling water, and wastewater treatment facilities; utility facilities; pump stations; water towers; environmental controls (air conditioning or cooling towers; the suppression, and related equipment), and security features, provided such Data Center Accessory Uses/structures are located on the same tract or assemblage of adjacent parcels developed as a unified development with a Data Center. The use shall not include

energy generation systems used or intended to be used to supply power to the Data Center during normal operations.

"Data Center Electrical Substation" means a facility used for the transformation or transmission and/or switching of voltages to distribution voltages which switches circuits and distributes usable/consumable electric power, specifically for Data Center users on the same or adjacent site, or on a site immediately across a road right-of-way.

"Data Center Principal Building" means a building that contains the office and/or data storage functions of a Data Center.

"Data Mining" means the commercial process by which volumes of data are analyzed to find patterns, discover trends, and gain insight into how the data can be used as a commercial data mining operation.

"Dedicated-Use Building (BESS)" means a building that is only used for BESS components and equipment as defined in the NFPA 855 Standards for the Installation of Stationary Energy Storage Systems.

"Energy Storage" means any technology that can absorb electricity, storing the electricity for a period of time, and redelivering that electricity.

"Footcandle" means the amount of light to saturate a one-foot square with one lumen of light.

"High-density Load Service" means any individual service at or above 660 amps in which the energy use intensity (EUI) is calculated as greater than 250 kWh/Fsq/yr in total for all operating square footage.

"Liquid Cooling System" means a method of cooling electronic components or other devices by circulating liquid coolant through them, to cool and absorb heat from components and then dissipate heat through a radiator.

"NEC" means the National Electric Code.

"NFESC" means the National Electrical Safety Code.

"Non-commercial solar energy system (SES)" means a solar collection system consisting of one or more roof- and/or ground-mounted solar collector devices and solar related equipment, and is intended to primarily reduce on-site consumption of utility power. A system is considered a noncommercial solar energy system only if it supplies electrical or thermal power solely for on-site use at a scale of ≤15 kW, except that when a property upon which the facility is installed also receives electrical power supplied by a utility company, excess electrical power generated and not presently needed for on-site use may be used by the utility company.

"Non-participating Property" means any property that is not a participating property.

"Non-participating Residence" means any residence that is located on a non-participating property.

"On-site BESS" means a BESS that is intended primarily to serve the electricity needs of the applicant property but may, at times, discharge into the electric grid.

"Off-site BESS" means a BESS for the primary purpose of off-site use through the electric grid.

"Participating Property" means real property that is either owned by an applicant or that is the subject of an agreement that provides for the payment of monetary compensation to the landowner from the BESS owner (or affiliate) regardless of whether any part of the BESS system is constructed on the property.

"Public Utility" means a public utility as defined in the Iowa Code Chapter 476, 1 and municipally owned waterworks or wastewater facilities, waterworks having less than two thousand customers, joint water utilities established pursuant to Iowa Code Chapter 389, rural water districts incorporated and organized pursuant to Iowa Code Chapters 357A and 504, cooperative water associations incorporated and organized pursuant to Iowa Code Chapter 499, districts organized pursuant to Iowa Code Chapter 468, or a person furnishing electricity to five or fewer customers either by secondary line or from an alternate energy production facility or small hydro facility, from electricity that is produced primarily for the person's own use. Public utility does not include BESS facilities.

"Repowering" means the process of configuring, supplementing, or replacing some or all of the system components to increase the nameplate capacity (measured in megawatts).

"Sensitive Receptors" means schools, preschools, day care centers, in-home daycares, health facilities including, but not limited to hospitals, clinics, long term care facilities, retirement and nursing homes, community centers, places of worship, playgrounds, parks (excluding trails), campgrounds, prisons, dormitories, or any permitted residence.

"Thermal Runaway" means the rapid, uncontrollable increase in temperature often leading to catastrophic failure in electronic components or, specifically, batteries. It is a self-sustaining cycle where heat generation exceeds heat dissipation, resulting in an escalating temperature rise, potentially leading to fires, explosions, and the release of hazardous materials.

"Utility-Scale Tier 2 BESS (U-BESS)" means facilities that are typically standalone installations that store and dispatch energy to the electric grid (often at substation or transmission voltage level).

**CHAPTER 88
LAND DEVELOPMENT REGULATIONS: GENERAL SITE PLANNING STANDARDS**

9. Off-Street Loading Areas. In any district in connection with every building or part thereof hereafter erected having a gross floor area of 6,000 square feet or more, which is to be occupied by manufacturing, storage, warehouse, goods display, retail store, wholesale store, market, hotel, hospital, or other uses similarly requiring the receipt or distribution by vehicles of material or merchandise, there shall be provided and maintained on the same lot with such building at least one off-street loading space, plus one additional such loading space for each 20,000 square feet or major fraction thereof of gross floor area so used in excess of 10,000 square feet.

- A. Each loading stall shall not be less than 12 feet in width and 40 feet in length.
- B. Such space may not occupy all or any part of a required yard or open space. When adjacent to a residential district or residential use, it shall be set back 10 feet and screened from adjacent property by a planting screen not less than 10 feet in width and six feet in height or by a fence, wall, berm, or other comparable means. For CDC and DC uses, applicable setback requirements found in Chapter 90 must be satisfied.
- C. For CDC and DC uses, loading spaces/days are only permitted to be located on one facade of the Data Center Principal Building.

Amend Table 88-5 Parking Ratios by Type to include the following

Land Use	Number of Maximum Spaces
<u>UBESS</u>	<u>One space for each employee on the largest shift. If there are no shift employees, three spaces are permitted.</u>
<u>CDC or DC</u>	<u>One space per employee on the largest shift, plus an additional three visitor spaces.</u>

**CHAPTER 86
LAND DEVELOPMENT REGULATIONS: DISTRICT REQUIREMENTS**

Add the following as a Permitted Accessory Use in all zoning districts, except the GB/C district.

Tier 1 Battery Energy Storage Systems

**CHAPTER 90
LAND DEVELOPMENT REGULATIONS: CONDITIONAL USES**

6. Commercial WECS (C-WECS).

L. Noise. Audible noise due to C-WECS sites operations shall not exceed ~~60~~ **55** dBA for any period of time, when measured at any dwelling, school, hospital, church, or public library existing on the date of approval of any conditional use permit from the property line.

N. Discontinuation and Decommissioning. A C-WECS shall be considered a discontinued use after one year without energy production, unless a plan is developed and submitted to the Director outlining the steps and schedule for returning the C-WECS to service. All C-WECS and accessory facilities shall be removed to four feet below ground level within 180 days of the discontinuation of use. Each C-WECS shall have a decommissioning plan outlining the anticipated means and cost of removing C-WECS at the end of their serviceable life or upon becoming a discontinued use. The cost estimates shall be made by a professional engineer licensed in the State of Iowa. The plan shall also identify the financial resources that will be available to pay for the decommissioning and removal of the C-WECS and accessory facilities. The County reserves the right to verify that adequate decommissioning terms are contained in the landowner easement.

- (1) The applicant shall submit a copy of the ~~de~~decommissioning plan to all property owners within the Conditional Use Permit area. The property owners shall provide the County a signed affidavit stating their awareness and responsibility of decommissioning costs.
- (2) Decommissioning Fund ~~Financial Security~~. The applicant shall ~~must~~ continuously maintain a financial assurance mechanism in the form of a performance bond and/or other security approved by the County Attorney, for the period of the life of the facility. The ~~required~~ amount of the security shall be 130 percent of the total decommissioning cost identified in the decommissioning plan, ~~excluding any salvage value as amended by the Board of Adjustment~~. The financial assurance mechanism must ensure that funds will be available upon discontinuation and shall not include the future value, if any, of scrap. If a bond is posted to meet this requirement, the bond-issuing company must be agreed upon by both the applicant and County. All decommissioning, removal and remediation fund requirements shall be fully funded before a zoning permit is issued. The County shall have sole discretion with regard to the determination of the mode of financial assurance.
- (3) ~~Every three (3) years from the first date of operations, or on the written request of the County, the Owner shall review and update the Decommissioning Plan and all appendices and provide the updated plan and appendices to the County on or before the date of each three-year anniversary of the first date of operations. As part of this review process, the Owner shall recalculate the total decommissioning cost and the decommissioning guaranty amount, and the financial assurance required shall be modified accordingly.~~

Q. Submittal Requirements. In addition to the submittal requirements defined for conditional use permit applications, all applications for C-WECS must submit the following information (as applicable).

(18) Pre-construction interconnection agreements.

8. Commercial – Solar Energy Systems (C-SES).

D. Ground Cover and Buffer Areas. Perennial vegetative ground cover shall be planted on the ground around and under solar arrays and in project site buffer areas, and the ground shall meet the following standards:

- (1) Top soils shall not be removed from the site during development unless the removal is part of a remediation effort pre-defined and approved through the Conditional Use Permit.
 - (2) Soils shall be planted and maintained in perennial vegetation in accordance with sub-paragraph 3 below to prevent erosion, manage run-off, and build soil.
 - (3) Seed mixes and maintenance practices must be approved by Story County Conservation prior to action by the Board of Adjustment.
 - (4) Solar collectors and tracking are not considered impervious cover if underlying ground is pervious vegetation, and the soil is not compacted.
 - (5) The applicant shall submit a vegetative management plan prepared by a qualified professional or reviewed and approved by Story County Conservation. The plan shall identify:
 - a. The natural resource professionals consulted or responsible for the plan
 - b. The conservation, habitat, eco-system, or agricultural goals, which may include: providing habitat for pollinators such as bees and monarch butterflies, providing habitat for wildlife such as upland nesting birds and other wildlife, establishing vegetation for livestock grazing, reducing on-site soil erosion, and improving or protecting surface or ground water quality.
 - c. The intended mix of vegetation upon establishment.
 - d. The management methods and schedules for how the vegetation will be managed on an annual basis, with particular attention given to the establishment period of approximately three years.
- E. Fencing. Ground-mounted solar energy device or combination of devices comprising a C-SES shall be enclosed by perimeter fencing at a height of eight feet to restrict unauthorized access. Security fences and gates must be maintained in good condition until the site is decommissioned.
- (1) Native/pollinator-friendly vegetation buffers or fencing to screen solar farms from adjacent homes/public roads is required.
- L. Discontinuation and Decommissioning. C-SES shall be considered discontinued after one year without energy production, unless a plan is developed and submitted to the Director outlining the steps and schedule for returning the C-SES to service.

(1) Removal Requirements. Any C-SES which has reached the end of its useful life or has been determined to be discontinued pursuant to this section shall be decommissioned and removed within 180 days of the discontinuation of use.

(2) Decommissioning shall consist of:

- a. Physical removal of all large-scale ground-mounted solar photovoltaic installations, structures, equipment, security barriers and transmission lines from the site to four feet below ground level within 180 days of the discontinuation of use.
 - b. Disposal of all solid and hazardous waste in accordance with local, State, and federal waste disposal regulations.
 - c. Stabilization or re-vegetation of the site as necessary to minimize erosion. The Director may allow the owner or operator to leave landscaping or designated below-grade foundations in order to minimize erosion and disruption to vegetation.
- (3) Decommissioning Plan and Financial Surety.
- a. C-SES shall have a decommissioning plan outlining the anticipated means and costs of removing the C-SES at the end of its serviceable life or upon becoming discontinued.
 - b. The decommissioning plan shall identify financial resources that will be available to pay for decommissioning and removal of C-SES.
 - c. The applicant shall must continuously maintain a financial assurance mechanism in the form of a performance bond and/or other security approved by the County Attorney, for the period of the life of the facility. The amount of the security shall be 130 percent of the total decommissioning cost identified in the decommissioning plan, without the salvage value. The financial assurance mechanism must ensure that funds will be available upon discontinuation and shall not include the future value, if any, of scrap. If a bond is posted to meet this requirement, the bond issuing company must be agreed upon by both the applicant and County. All decommissioning, removal and remediation fund requirements shall be fully funded before a zoning permit is issued. The County shall have sole discretion with regard to the determination of the mechanism of financial assurance.
 - d. Property Owner Affidavit. The applicant shall submit a copy of the decommissioning plan to all property owners within the boundaries of the Conditional Use Permit area. The property owners shall provide the County a signed affidavit acknowledging receipt of the plan and their responsibility for decommissioning costs.
 - e. Every three (3) years from the first date of operations, or on the written request of the County, the Owner shall review and update the Decommissioning Plan and all appendices and provide the updated plan and appendices to the County on or before the date of each three-year anniversary of the first date of operations. As part of this review process, the Owner shall recalculate the total

decommissioning cost and the decommissioning guaranty amount; and the financial assurance required shall be modified accordingly.

M. Monitoring and Maintenance. The owner or operator of C-SES shall maintain the facility in good condition. Maintenance shall include, but not be limited to, painting, structural repairs, and integrity of security measures. Internal circulation drives shall be maintained by the owner or operator to a level acceptable to the applicable fire chief and Story County Emergency Management Agency. The owner or operator shall be solely responsible for the cost of maintaining the C-SES and any internal access roads.

(1) Agrovoltaics or Agrivoltaic Projects such as pollinator-friendly cover crops/livestock grazing on solar farm sites are permitted and encouraged to continue to achieve co-benefits of solar energy and agriculture.

O. Submittal Requirements. In addition to the submittal requirements defined for conditional use permit applications, all applications for C-SES must submit the following information (as applicable).

(22) Vegetative Management Plan.

**CHAPTER 90
LAND DEVELOPMENT REGULATIONS: CONDITIONAL USES**

Amendment to Table 90-1 – Table of Conditional Uses

All subject to supplemental standards, and in the C-LI and HI

- Utility-Scale Battery Energy Storage System (U-BESS)

When such use is proposed conjunction with an application or major modification for a "Commercial Wind Energy Conversion Systems (C-WECST)", "Commercial Solar Energy Systems (C-SES)", or "Any land or building used by a utility service for the purpose of generating or converting power", the U-BESS may be sited on property zoned A-1. Agricultural and all supplemental standards for a U-BESS shall apply in addition to supplemental standards for "Commercial Wind Energy Conversion Systems (C-WECST)", "Commercial Solar Energy Systems (C-SES)", or "Any land or building used by a utility service for the purpose of generating or converting power".

This page through
the end of the
packet contains
proposed new
regulation.

- Cryptocurrency Data Center or Cryptocurrency Mining or Production Installations associated with a Data Center (CDC)
- Data Center (DC)

11. **Utility-Scale (Tier 2) Battery Energy Storage Systems (U-BESS)**
 - A. The requirements of the Ordinance shall apply to all U-BESS proposed after the effective date of the Ordinance.
 - B. Co-located with Solar or Wind: When a U-BESS is proposed as part of a new solar farm or wind farm, the U-BESS is processed as a component of the new solar farm or wind farm's conditional use permit rather than requiring a separate conditional use permit. For an existing wind farm or solar farm that was permitted prior to the adoption of the standards for U-BESS wanting to add battery storage, such applications will be processed as a Major Modification to the existing conditional use permit.
 - C. Setbacks and Separation Requirements. The following setbacks and separation requirements shall apply to all components of a U-BESS.
 - 1) U-BESS facilities shall comply with all applicable setbacks and separation distances as required by NFPA 855.
 - 2) Sensitive Receptors. Setbacks from the nearest Receptor use shall be 100 feet or greater, as measured from structure to structure. Setbacks shall be established allowing for no greater than 55dB(A) from the U-BESS occurring at an adjacent dwelling.
 - 3) Public Right-of-Way. Setbacks from public right-of-way shall comply with the applicable setbacks as defined by the base zone district.
 - D. Screening and Landscaping
 - 1) U-BESS must be visually screened from the public right-of-way and from any Sensitive Receptors located within 100' of the U-BESS.
 - E. Parking shall comply with the requirements defined in Section 88.08 Parking and Circulation Standards.
 - F. Hazardous Materials and Environmental Protection
 - 1) The U-BESS shall comply with all applicable hazardous materials handling and reporting laws.
 - 2) Batteries shall be recycled or disposed of in accordance with environmental regulations upon decommissioning. The Decommissioning Plan must identify where the batteries will go.
 - 3) U-BESS installations must comply with the County's stormwater and erosion control ordinance.
 - 4) On parcels containing more than 50 percent of the gross acreage as lands identified with areas designated Natural Resource Areas on the Cornerstone to Capstone (C2C) Comprehensive Plan, the conditional use permit shall not be approved unless conditions protecting the identified areas are attached to the request, either split zoned with conservation or conservation easements.
 - 5) U-BESS shall not be located in the Special Flood Hazard Area.
 - G. Fencing and Security Measures
 - 1) A perimeter security fence up to eight (8) feet tall must be installed around the entire U-BESS, including the battery containers and electrical equipment.

- 2) Fencing may not be placed in front of landscaping adjacent to roads. There must be landscaping in front of any fence adjacent to public roads.
- 3) Security fencing near electrical installations must be grounded and bonded to protect against electrical hazards as per the National Electric Code.
- 4) For installations over 1,000 volts, a warning sign reading "DANGER – HIGH VOLTAGE – KEEP OUT" is required on locked or monitored enclosures.
- 5) Warning signage such as high voltage, energy storage facility identification, emergency contact info, must be posted on the fence per the National Electric Code requirements.
- 6) Security fences and gates must be maintained in good condition until the site is decommissioned.
- 7) Battery energy storage systems shall also comply with specifications established in NFPA 855 relating to barriers and buffering.
- H. Signage. No signs other than appropriate warning signs, or standard manufacturers', operators', or installers' identification signage, shall be displayed unless permitted in accordance with Chapter 89.
- I. Access and Fire Safety. Battery energy storage systems shall comply with the latest published version of the National Fire Protection Association (NFPA) 855, Standard for Installation of Stationary Energy Storage Systems, at the date of the submission of the application.
- J. Lighting. Exterior lighting, including any security lighting, shall be the minimum necessary for safety and security, downward directed, shielded from adjacent properties, and comply with the requirements of Section 88.09, Site Lighting.
- K. Emergency Response Plan (ERP):
 - 1) An ERP is to be prepared and submitted for review prior to the issuance of a zoning permit. At the time a conditional use permit application is submitted, a draft ERP per NFPA 855 [Section 4.3.2.4.4\(4\)](#) shall be included with the application materials. This shall include but not be limited to an evacuation plan, firefighting techniques, and responsibility assignments for each scenario in the ERP.
 - 2) Prior to commencing commercial operations, the applicant shall submit a plan as an appendix to the project permit application for offering site-specific training to the fire service and emergency personnel of all applicable jurisdictions.
 - 3) The ERP shall be reviewed annually by local emergency responders throughout the project's lifespan and modified for best safety practices if necessary.
 - 4) Routine maintenance shall be performed on the U-BESS equipment to ensure proper performance of the technology. The County and local emergency responders are to be contacted if there are concerns of failure to meet any ERP standards in the U-BESS performance.
- 5) **The applicant must** conduct and submit documentation of hazard mitigation analyses as required by NFPA 855. An ERP and necessary fire precautions must be in place prior to issuance of any zoning permits.
- 6) Local first responders are to be trained and equipped to the extent current equipment is insufficient to respond appropriately to the selected battery technology for the U-BESS project, at the Owner's commercially reasonable expense, prior to the commencement of the operation. Refresher training to local first responders shall be required, at the Owner's commercially reasonable expense, at reasonable intervals, at least annually or as requested by the jurisdictional fire chief and Story County Emergency Management throughout the life of the project.
- 7) Owner shall be responsible for the commercially reasonable costs of local first responders for any emergency event at the facility.

- 8) Owner shall provide confirmation that there will be remote monitoring of the U-BESS 24 hours daily, seven (7) days a week.
- 9) U-BESS operators are required to certify that the system is being maintained per safety standards and coordinate refresher training or drill with the applicable fire department. Annual proof to be provided to Story County Planning and Development no later than February 28 each year. Failure to comply annually with this may result in revocation of the conditional use permit.
- L. Noise Standards: Sound generated from the battery energy storage systems, components, and associated ancillary equipment, measured at the nearest sensitive receptor or a non-participating property shall not exceed 55 dBA (1-hour Leq) at the property line.
 - 1) These standards shall not apply to uses established after the U-BESS is permitted/started.
- M. Compliance with Applicable Codes and Certifications.
 - 1) State Building Code. All U-BESS shall meet all requirements of the current State Building Code.
 - 2) National Electric Code (NEC). All U-BESS shall comply with the National Electrical Code, current edition.
 - 3) Certification that all battery units meet national safety standards (e.g. UL 1973 for battery modules, and UL 9540 for the entire storage system). All U-BESS applications shall provide such certification.
- ~~N. Lighting. Exterior lighting at a U-BESS site shall be the minimum necessary for safety and security, downward directed, and shielded from adjacent properties and comply with the requirements of Section 98.09.~~
- N. Underground Installation of Utilities. Reasonable efforts shall be made to place all utility connections from ~~CBC or DC U-BESS~~ facilities underground, depending on appropriate soil conditions, shape and topography of the site, distance to the connection, or other conditions or requirements. Any above ground utility lines require an engineer's signed statement and explanation as to why buried utilities are not feasible.
- O. All U-BESS shall comply with Iowa Utilities Board rules and any state law requirements. Any required state or federal permits or approvals (such as U-B generator certificates for very large facilities) must be obtained, and copies provided to the County, prior to construction.
- P. Review of Augmentation Plans
 - 1) If augmentation was not considered in the approved permit application, then such augmentation shall be processed as an amendment to the approved conditional use permit.
- Q. Commissioning Plan and Report
 - 2) Prior to issuance of a zoning permit, U-BESS Applicants shall submit a commissioning plan in accordance with NPPA 855 that contains:
 - a. An electrical diagram detailing the battery energy storage system configuration, associated components, and electrical interconnection methods, compliant with applicable state or local electrical codes, including NEC and NESC.
 - b. A preliminary equipment specification sheet that documents the proposed battery energy storage system components, inverters and associated electrical equipment that are to be installed. A final equipment specification datasheet shall be submitted prior to the issuance of the zoning permit.
 - c. Name, address, and contact information of proposed or potential system installer and the owner and/or operator of the U-BESS. Such information of the final system installer shall be submitted prior to the issuance of final zoning permit.
- R. Discontinuation and Decommissioning. U-BESS shall be considered discontinued after it has not stored electrical energy for twelve (12) consecutive months, unless a plan is developed and submitted to the Director outlining the steps and schedule for returning the U-BESS to service.
 - 3) Removal Requirements. Any U-BESS which has reached the end of its useful life or has been determined to be discontinued pursuant to this section shall be decommissioned and removed within one-hundred eighty (180) days of the discontinuation of use.
 - 4) Decommissioning shall consist of:
 - a. Physical removal of all above-surface facilities and infrastructure that have no ongoing purpose, from the site. All U-BESS and accessory facilities shall be removed to four (4) feet below ground level within one-hundred eighty (180) days of the discontinuation of use.
 - b. Disposal of all solid and hazardous waste in accordance with local, State, and federal waste disposal regulations.
 - c. Stabilization or re-vegetation of the site as necessary to minimize erosion. The Director may allow the owner or operator to leave landscaping to minimize erosion and disruption to vegetation.
 - 5) Decommissioning Plan and Financial Surety.
 - a. U-BESS shall have a decommissioning plan outlining the anticipated means and costs of removing the U-BESS at the end of its serviceable life or upon becoming discontinued.
 - b. The decommissioning plan shall identify financial resources that will be available to pay for decommissioning and removal of U-BESS.
 - c. The applicant must continuously maintain a financial assurance mechanism in the form of a performance bond and/or other security approved by the County Attorney, for the period of the life of the facility. The required amount of the security shall be 130 percent of the total decommissioning cost identified in the decommissioning plan, excluding any salvage value. The financial assurance mechanism must ensure that funds will be available upon discontinuation and shall not include the future value, if any, of scrap. If a bond is posted to meet this requirement, the bond issuing company must be agreed upon by both the applicant and County. All decommissioning, removal and remediation fund requirements shall be fully funded before a zoning permit is issued. The County shall have sole discretion with regard to the determination of the mechanism of financial assurance.
- d. Property Owner Affidavit. The applicant shall submit a copy of the decommissioning plan to all property owners within the boundaries of the Conditional Use Permit area. The property owners shall provide the County with a signed affidavit acknowledging receipt of the plan and their responsibility for decommissioning costs.
- e. Every three (3) years from the first date of operations, or on the written request of the County, the Owner shall review and update the Decommissioning Plan and all appendices and provide the updated plan and appendices to the County on or before the date of each three-year anniversary of the first date of operations. As part of this review process, the Owner shall recalculate the total decommissioning cost and the decommissioning guaranty amount, and the financial assurance required shall be modified accordingly.
- S. Monitoring and Maintenance. The owner or operator of a U-BESS shall maintain the facility in good condition. Maintenance shall include, but not be limited to, painting, structural repairs, and integrity of security measures. Internal circulation drives shall be maintained by

- the owner or operator to a level acceptable to the applicable fire chief and Story County Emergency Management Agency. The owner or operator shall be solely responsible for the cost of maintaining the U-BESS and any internal access roads.
- 6) Following the initial completion of the project and the project commissioning, Owner shall notify the County, in writing, of any battery enclosures before being removed or installed at the project. Such notification shall be at least thirty (30) days in advance of the removal or installation, except in cases of emergency, when Owner shall notify the County as soon as practicable. No batteries shall be stored on the premises outside of battery enclosures, with the exception of batteries stored for future use, and any such used for future use shall be stored to NFPA 855 standards.
 - 7) Ownership Changes: If the owner of the U-BESS changes or the owner of the property changes, the conditional use permit shall remain in effect, provided that the successor owner or operator assumes in writing all of the obligations of the conditional use permit, site plan approval, and decommissioning plan. A new owner or operator of the U-BESS shall notify the Story County Planning and Development Department in writing of such changes in ownership or operations within sixty (60) days of the change.
 - 7) The conditional use permit and all other local approvals for the U-BESS may be considered void if a new owner or operator fails to provide written notification to the Story County Planning and Development Department within the required timeframe. Reinstatement of a void conditional use permit will be subject to the same review and approval processes for new conditional use permits.
- U. Third-Party Reviewer
- 8) The County may seek the services of a third-party reviewer with expertise in the U-BESS technology field to assist with the following services (if the conditional use permit is approved by the County).
 - a. Review of the site and architectural plan, battery technology, compliance with NFPA 855, and with other applicable regulatory standards and codes not specifically identified in these regulations.
 - b. Assist with the review of the ERP, completed noise study, decommissioning plan and review of decommissioning financial security agreement.
 - 9) The County shall make their best effort so that the Third-Party Review does not unreasonably delay the project's zoning permitting or construction process. The Owner shall be responsible for reimbursing the County for the commercially reasonable costs incurred for the services of said Third-Party Reviewer. Said costs shall be mutually agreed upon by the County and Owner prior to the County's commencement of plan review for the zoning permit.
- V. Avoidance and Mitigation of Damages to Public Infrastructure.
- 10) Roads: Applicant shall identify all roads to be used for the purpose of transporting components and/or equipment for construction, operation or maintenance of the U-BESS and obtain applicable weight and size permits from the impacted road authority prior to construction.
 - 11) Existing Road Conditions: Applicant shall conduct a pre-construction survey in coordination with the impacted local road authority to determine existing road conditions. The pre-construction survey shall include photographs and a written agreement to document the condition of the roads and applicable public facilities. The applicant is responsible for on-going road maintenance and dust control measures identified by the Story County Engineer during all phases of construction.
 - 12) Drainage System: The applicant shall be responsible for immediate repair of damage to public drainage systems stemming from construction, operation, or maintenance of the U-BESS.
- W. Substantial Requirements: All U-BESS applications must submit the following information in addition to submittal requirements defined for conditional use permit applications.
- 1) The names of the project applicants.
 - 2) The names of the project owners.
 - 3) The legal description and address of the project.
 - 4) The names of the landowners.
 - 5) Pre-construction survey and proposed routes.
 - 6) Proposed changes to the landscape of the site, grading, vegetation clearing and planting, exterior lighting, and screening vegetation or structures.
 - 7) A detailed site plan drawing showing the layout of the U-BESS facility on the property including the battery enclosures/containers, inverters and electrical equipment, transformers, access roads, parking or turnaround areas for maintenance vehicles, proposed fencing and gates, landscape buffers (if any), and setback distances from property lines and existing structures, and identifying any adjacent uses (homes, public roads, etc.), floodplain, rights-of-way and zoning district designations. For co-located U-BESS at a solar/wind farm, the U-BESS components should be clearly identified on the overall project site plan as defined in Section 90.08.6 Commercial WECS (C-WECS) and 90.08.8 Commercial Solar Energy Systems (C-SES).
 - 8) Project Narrative and Specification Sheets describing the U-BESS project, including the type of battery technology (e.g., lithium-ion, flow battery, etc.), the nameplate energy capacity (in MW and MWh), the intended charge/discharge regime (e.g. daily cycling, emergency backup), and whether the system is stand-alone or tied to a generation facility. The applicant should provide manufacturer's spec sheets for the battery units and associated equipment, to verify dimensions and compliance with safety standards (such as UL listings).
 - 9) Statements of Compliance with Applicable Codes and Certifications.
 - 10) Emergency Response Plan.
 - 11) Site Safety and Security Plan: A detailed plan outlining on-site safety features such as thermal monitoring systems, ventilation and explosion-proof construction features and describing how the site will be secured against unauthorized access like fencing, locking cabinets, lighting, alarms, etc.
 - 12) Project development timeline.
 - 13) Existing Resources Inventory as defined in Chapter 85.
 - 14) Documentation of actual or prospective access and traffic control of the project site.
 - 15) Operation and maintenance plan of the U-BESS, which shall include measures for maintaining safe access to the installation, storm water controls, as well as general procedures for operation and maintenance of the installation.
 - 16) Proof of liability insurance.
 - 17) Applicable Fee

- 18) Decommissioning plan without salvage value calculated into the security bond amount.
- 19) Acknowledgement of Third-Party Reviewer process and potential costs.

12 Cryptocurrency Mining or Production Installations Associated with a Data Center (CDC); Data Centers (DC)

- A. The requirements of the Ordinance shall apply to all CDC or DC proposed after the effective date of the Ordinance.
- B. Maximum Height: Building height shall not exceed forty (40) feet and shall not include any additional rooftop equipment, which may not exceed a maximum height of thirty (30) feet.
- 1) Any mechanical rooftop equipment, including but not limited to heating, air conditioning, ventilation, generators, and other similar equipment, shall be screened with a parapet wall, false roof, or other building elements that shall provide one hundred (100) percent screening of mechanical equipment from the adjacent roadways, properties, and waterways.
 - a. The parapet wall, false roof, or building element shall be constructed of the same materials used in the construction of the principal building or structure and shall be designed to be architecturally integrated with the building's overall design.
 - b. No screening shall be required for renewable energy infrastructure equipment, including but not limited to solar energy systems, wind energy systems, and other power generation equipment.
 - c. No screening shall be required for any green infrastructure, including but not limited to green roofs, rooftop cisterns, and other bioretention equipment.
- C. Setbacks
 - 1) All principal buildings, accessory structures, and Data Center Electric Utility Substations shall be set back at least two hundred (200) feet from all property lines or not exceeding 60dB(A).
 - 2) If located on the ground, any equipment for cooling, ventilating, or otherwise operating the facility, including any power generator or other power supply equipment, must either be:
 - a. Located at least one hundred (100) feet or not exceed 60 dB(A) from the lot line of a property with a residential zoning classification or an existing dwelling; or
 - b. Separated from the lot line of a property with a residential zoning classification or an existing dwelling by the principal data center building.
- D. Site Layout: Buildings shall be sited and oriented to:
 - 1) Minimize visual impacts of the bulk of the building when examined on a line-of-sight basis from adjacent public streets and Sensitive Receptor areas.
 - 2) Provide safe and convenient vehicular access to the site, including sufficient on-site queuing areas at security gates.
 - 3) Accommodate parking area.
 - 4) Minimize impacts to natural resources.
 - 5) Incorporate appropriate stormwater management practices.
- E. Utility Connections: Reasonable efforts shall be made to place all utility connections from CDC or DC facilities underground, depending on appropriate soil conditions, shape and topography of the site, distance to the connection, or other conditions or requirements. Any above ground utility lines require an engineer's signed statement and explanation as to why buried utilities are not feasible.
- F. Screening
 - 1) Substations, electrical yards, mechanical yards, and any other exposed equipment shall not be located between the building and a publicly accessible road or right-of-way and shall be screened from any adjacent publicly available accessible street, private street, trail, or park.

- 2) All cooling, ventilation, and other electrical equipment used to operate the facility shall not be located between the building and publicly accessible rights-of-way.
- 3) CDC or DC must be visually screened from the public right-of-way and from any Sensitive Receptors located within 100' of the CDC or DC. A landscape buffer is required to be installed and maintained during the life of the operation. The following plant unit percentages apply to each property line where the buffer is required:
 - a. A maximum of twenty (20) percent of the required plant units may be a combination of shrubs, ornamental grasses, and perennials.
 - b. A minimum of forty (40) percent and a maximum of seventy (70) percent of the required plant units must be evergreen trees that are a minimum of eight (8) feet in height at the time of planting.
 - c. A maximum of thirty (30) percent of the required plant units may be small deciduous trees.
 - d. A maximum of thirty (30) percent of the required plant units may be large deciduous trees.
 - e. Buffer Substitution Using Topography and Vegetation. Use of the natural topography and preservation of non-invasive existing vegetation, supplemented by new vegetation, if needed, may be substituted for the above requirements if determined by the Story County Board of Adjustment to provide screening at the density, depth, and height equivalent to that outlined above.
- G. Signage: Each CDC or DC operation shall provide 24-hour emergency contact signage visible at the access entrance. Signs shall include company name, owner/representative name, telephone number, and corresponding local power company and telephone number. All additional signage must adhere to the requirements in Chapter 89.
- H. Lighting: Exterior lighting, including any security lighting, shall be the minimum necessary for safety and security, downward directed, and shielded from adjacent properties and comply with the requirements of Section 89.09, Site Lighting.
 1. Noise/Vibration
 - 1) The CNEL at the boundary of the property containing a Sensitive Receptor shall not exceed 55 dB(A) within three hundred (300) feet.
 - 2) The CNEL at the boundary of any developed property not containing a Sensitive Receptor shall not exceed 70 dB(A).
 - 3) Sound that is produced for not more than a cumulative period of one (1) minute in any hour may exceed the standards above by up to 10 dB(A). In the event audible noise operations contains a steady pure tone, such as a whistle, screech, or hum, the standards for audible noise set forth shall be reduced by 5 dB(A).
 - 5) The maximum sound levels listed above do not apply to emergency alerts, emergency work to provide electricity, water, or other public utilities when public health or safety is involved, snow removal, or road repair.
 - 6) A noise reduction barrier or device may be required at the discretion of the Board of Adjustment when it is inconclusive that noise level tests do not conform to acceptable noise levels.
 - 7) The limitations of this section shall not apply to any Sensitive Receptor that is established adjacent to the CDC or DC after the date of issuance of a final zoning permit for the applicant's operation.
 - 8) In the event the noise levels resulting from CDC or DC operations exceed the criteria listed above, a waiver to said levels may be granted by the Board of Adjustment provided that the following has been accomplished.
 - a. Written waiver from the affected property owners has been obtained stating that they are aware of the CDC or DC and the noise limitations imposed by these Regulations, and that consent is granted to allow noise levels to exceed the maximum limits otherwise allowed; and
 - b. If the applicant wishes the waiver to apply to succeeding owners of the property, a permanent noise impact easement shall be recorded in the Office of the Story County Recorder which describes the burdened properties and which advises all subsequent owners of the burdened property that the noise levels in excess of those permitted by these Regulations may exist on or at the burdened property.
 - c. Any generators on the property shall comply with the U.S. Environmental Protection Agency (EPA) New Source Performance Standards (NSPS) of at least Tier 4 emissions. Testing for these generators shall not exceed ten (10) hours per month unless a power outage occurs. Generators shall be enclosed by a sound attenuation for noise reduction and to reduce pollution.
 - d. Except for generator testing or commissioning activities, generator use is limited to backup/emergency use only.
 - J. Foundation. All structures shall have concrete foundations.
 - 1) Foundations shall not be defective, decayed, or corroded.
 - 2) The use of cargo containers, railroad cars, semi-truck trailers, and other similar storage containers for any component of the operation are prohibited.
 - K. Cooling Systems. CDC or DC shall be required to have a liquid cooling system.
 - 1) A closed loop cooling system is required.
 - 2) The application shall include an estimate of annual water consumption for the site to include an assessment for annual replacement or replenishment of water in the closed loop.
 - 3) The application shall include a description of the intended source of water for the development, and documentation from the Iowa Department of Natural Resources along with Story County Environmental Health affirming sufficient water resources exist to serve the site.
 - 4) All necessary permits must be obtained from Story County Environmental Health and the Iowa Department of Natural Resources.
 - L. Equipment. All servers, computers, processors, materials, and equipment must be enclosed within buildings.
 - M. Electrical Power. The applicant shall provide written verification from the power provider that the applicant has calculated the maximum potential electrical consumption of the proposed use and has verified the utility supply equipment and related electrical infrastructure is sufficiently sized and can safely accommodate the proposed use during the power provider's peak consumption hours.
 - N. Hazardous Materials and Environmental Protection.
 - 1) The CDC or DC shall comply with all applicable hazardous materials handling and reporting laws.
 - 2) All CDC or DC must comply with the County's stormwater and erosion control ordinance.
 - 3) On parcels containing more than 50 percent of the gross acreage as lands identified with areas designated Natural Resource Areas on the Cornerstone to Capstone (C2C) Comprehensive Plan, the conditional use permit shall not be approved unless conditions protecting the identified areas are attached to the request, either split zoned with conservation or conservation easements.
 - 4) CDC or DC shall not be located in the Special Flood Hazard Area.

- O. Ice Mitigation Report: All CDC or DC shall ensure that the amount of heat that is dissipated by the mining activity shall be monitored when the average daily temperature is 40 degrees Fahrenheit or less to ensure that there is no buildup of ice on neighboring properties and roadways.
- 1) In the instance that condensation and ice occur, there shall be an agreement between the facility's operational contact, owners of neighboring properties (to mitigate ice buildup on dwellings), and the County Engineer to mitigate ice on public right of way.
- P. Safety.
- 1) The equipment used in any CDC or DC operation shall be housed in a metered, electrically grounded, and pre-engineered metal-encased structure with a fire rating designed to resist an internal electrical fire for at least 30 minutes. The confinement space shall contain baffles that automatically close in the event of fire, independent of a possible electric system failure.
- 2) Any CDC or DC using **repealing proposed** battery storage or any other device or group of devices capable of storing energy in order to supply electrical energy at a later time, whether the energy is stored for use on-site or off-site, shall demonstrate compliance with NFPA Standard 855, Installation of Stationary Energy Storage Systems, or similar standards and must include fire suppression systems designed specifically for battery storage.
- 3) A clean agent fire protection system must be provided and maintained in good working order within any structure which contains a server farm. High sensitivity smoke detectors shall be installed and operational in order to activate the clean agent fire suppression system.
- Q. Power Lines and Electric Utility Substations.
- 1) CDC or DC Electric Utility Substations must include year-round opaque landscaping or a screen wall a minimum of eight (8) feet in height to minimize visual impact.
- 2) Electric Utility Substations on the same property as the CDC or DC they serve must be located on the side or rear of a principal building so they are screened from public view and must not be in a required front yard. On-site substations do not require a buffer or screening between the Data Center Principal Building and the substation.
- 3) Buying power lines serving the property is required. On-site power lines of 34.5 kV and below must be buried. Any above ground utility lines require an engineer's signed statement and explanation as to why buried utilities are not feasible.
- 4) The CDC or DC Electric Utility Substation shall be subject to applicable zoning district setback requirements. Setbacks shall be measured from the edge of the compound containing the substation to the property boundary of the lot it occupies.
- R. Emergency Contact Information.
- 1) Each CDC or DC operation shall provide 24-hour emergency contact signage visible at the access entrance. Signs shall include the company name (if applicable), the owner/representative's name, the telephone number, and the corresponding local power company's name and telephone number.
- S. Compliance with Applicable Codes and Certifications. Statements of Compliance with Applicable Codes and Certifications below **is not** required at the time of submittal for a conditional use permit.
- 1) State Building Code. All CDC or DC shall comply with all requirements of the current State Building Code.
- 2) National Electrical Code (NEC). All CDC or DC shall comply with the National Electrical Code, current edition.
- 3) Certification that all battery units meet national safety standards (e.g. UL 1973 for battery modules, and UL 9540 for the entire storage system).
- T. Commissioning Plan and Report. Prior to issuance of a zoning permit, CDC or DC Applicants shall submit a commissioning plan that demonstrates:
- 1) An electrical diagram detailing the configuration, associated components, and electrical interconnection methods, compliant with applicable state or local electrical codes, including NEC and NESC.
- 2) Name, address, and contact information of proposed or potential system installer and the owner and/or operator of the CDC or DC. Such information of the final system installer shall be submitted prior to the issuance of final zoning permit.
- U. Discontinuation and Decommissioning. CDC or DC shall be considered discontinued after twelve (12) months without active and continuous use unless a plan is developed and submitted to the Director outlining the steps and schedule for returning the CDC or DC to service.
- 1) Removal Requirements. Any CDC or DC which has reached the end of its useful life or has been determined to be discontinued pursuant to this section shall be decommissioned and removed within one-hundred eighty (180) days of the discontinuation of use.
- 2) Decommissioning shall consist of:
- a. Physical removal of all above-surface facilities and infrastructure that have no ongoing purpose from the site. All CDC and DC and accessory facilities shall be removed to four (4) feet below ground level within one-hundred eighty (180) days of the discontinuation of use.
- b. Disposal of all solid and hazardous waste in accordance with local, State, and federal waste disposal regulations.
- c. Stabilization or re-vegetation of the site as necessary to minimize erosion. The Director may allow the owner or operator to leave landscaping or designated below-grade foundations in order to minimize erosion and disruption to vegetation.
- 3) Decommissioning Plan and Financial Surety.
- a. The CDC or DC shall have a decommissioning plan outlining the anticipated means and costs of removing the CDC or DC at the end of its serviceable life or upon becoming discontinued.
- b. The decommissioning plan shall identify financial resources that will be available to pay for decommissioning and removal of a CDC or DC.
- c. The applicant must continuously maintain a financial assurance mechanism in the form of a performance bond and/or other security approved by the County Attorney, for the period of the life of the facility. The required amount of the security shall be 130 percent of the total decommissioning cost identified in the decommissioning plan, excluding any salvage value. The financial assurance mechanism must ensure that funds will be available upon discontinuation and shall not include the future value, if any, of scrap. If a bond is posted to meet this requirement, the bond issuing company must be agreed upon by both the applicant and County. All decommissioning, removal and remediation fund requirements shall be fully funded before a zoning permit is issued. The County shall have sole discretion with regard to the determination of the mechanism of financial assurance.
- d. Property Owner Affidavit. The applicant shall submit a copy of the decommissioning plan to all property owners within the boundaries of the Conditional Use Permit area. The property owners shall provide the County with a signed affidavit acknowledging receipt of the plan and their responsibility for decommissioning costs.

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suppression system, Closed-loop cooling system, Commercial cryptocurrency mining, Cryptocurrency, Cryptocurrency data center, Cryptocurrency server farm, Data mining, High-density load service, Liquid cooling system.

https://www.jonescountyiowa.gov/files/land_use/jones_county_cryptocurrency_and_data_center_ordinance_78407.pdf

Linn County, Iowa. (2026, February 18). Ordinance No. 3-2-2026 amending Chapter 107 of the Code of Ordinances (Unified Development Code). Creates EU-3 Exclusive Use – Three, Large-Scale Data Center District; definitions of Data center, Small-scale data center (≤ 20 MW and < 50 gpm water), Large-scale data center (> 20 MW or > 50 gpm water). Subsequent 18-month moratorium on new EU-3 rezoning applications (effective July 1, 2026).

<https://www.linncountyiowa.gov/DocumentCenter/View/27695/PA26-0001-Ordinance-PDF>

Monona County, Iowa. (2025, March 11). Zoning ordinance (Chapter 100, as amended). Section 100.05 Definitions (“Digital Currency Mining and/or Data Center Facility”) and Section 100.37 Digital Currency Mining and/or Data Center Facility.

https://mononacountyiowa.gov/files/environmental_health_zoning/current_mc_zoning_regulations_chapter_100_amended_03112025_12875.pdf

Muscatine County, Iowa. (2025, May). Zoning ordinance amendment (Title III, Chapter II). Definition of Cryptocurrency mining or production installations and Data Center; classified as Special Permitted Use in I-1 and I-2 Districts.

https://www.muscatinecountyiowa.gov/files/ordinances/chapter_ii_zoning_ordinance.pdf (and related Board of Supervisors adoption records)

Osceola County, Iowa. (n.d. / current zoning ordinance). Definition of DATA CENTER: A building or other structure rehabilitated or constructed to house a group of networked server computers in one physical location in order to centralize the storage, management, and dissemination of data and information pertaining to a particular business, taxonomy, or body of knowledge. A data center provides computer processing for uses including but not limited to cloud storage, cryptocurrency mining, and artificial intelligence.

<https://osceolacountyia.gov/wp-content/uploads/2023/09/Osceola-zoning-ordinance-with-amendments.pdf>

Story County, Iowa. (Draft / under review, 2025–2026). Text amendment addressing Digital Asset Mining, Cryptocurrency Operations, Data Processing Centers, and Battery/Energy Storage Solutions (TA26-000002 / related ordinances). Definitions and supplemental standards for Cryptocurrency Mining or Production Installations Associated with a Data Center (CDC), Data Centers (DC), Closed-Loop Cooling System, and related terms. Temporary moratoriums also enacted. <https://www.storycountyiowa.gov> (see Planning & Development and Board of Supervisors records)

Woodbury County, Iowa. *Woodbury County Zoning Ordinance.*

https://www.woodburycountyiowa.gov/files/community_economic_development/zoning_ordinance_86604.pdf

Woodbury County, Iowa. (2024). *Woodbury County Comprehensive Plan 2040.*

https://www.woodburycountyiowa.gov/files/community_economic_development/draft_woodbury_county_comprehensive_plan_2040_41524_56900.pdf

Town Hall Management Plan

Event Goal:

Gather orderly, inclusive public input on potential amendments to the Woodbury County Zoning Ordinance regarding data center facilities. Input will inform the Zoning Commission's recommendation to the Board of Supervisors on requirements, regulations, zoning districts (e.g., General Industrial), and the permitting process (e.g., conditional use permit or comparable mechanism).

Recommended Agenda Structure

1. Purpose Statement & Ground Rules (3–4 minutes) – Chairperson
2. Zoning Staff Comments & Evening Plan (5–7 minutes) – Zoning Staff
3. Public Comment Period – All who wish to speak (main portion of meeting)
4. Closing Remarks & Next Steps (3–5 minutes) – Zoning Staff
5. Adjournment

1. PURPOSE STATEMENT (CHAIR):

Good evening. Thank you for joining us. The purpose of this town hall is to listen to citizen input on potential amendments to the Woodbury County Zoning Ordinance concerning data center facilities in unincorporated areas.

The Zoning Commission is studying how best to facilitate the permitting process—whether through a zoning ordinance text amendment or another ordinance—and is seeking your perspectives on potential requirements and regulations, suitable zoning districts such as General Industrial (GI), and the application process itself, such as a conditional use permit or comparable mechanism.

These meetings and any proposed regulations apply only to unincorporated areas under Woodbury County zoning jurisdiction. Incorporated cities and towns regulate their own zoning independently.

2. TIME LIMIT AND GROUND RULES (CHAIR):

To ensure everyone who wishes to speak has the opportunity, we will enforce a time limit of three (3) minutes per speaker.

- When you approach or are recognized, please state your name and, if you wish, your affiliation or location (e.g., property owner in unincorporated Woodbury County).
- At the three-minute mark, if you are still speaking, I will respectfully interrupt you and offer 30 seconds to conclude your remarks.
- Please address comments to the Commission and staff, remain civil, and focus on the topic of data center zoning and permitting for the unincorporated areas only. Personal attacks or off-topic remarks will not be permitted.
- One speaker at a time. All comments are directed at the Chairperson and the Commission. There will be no group dialogue and the mission will stay on point with the contents of what each individual speaker wishes to offer. Interruptions will be ruled out of order.
- Written comments may also be submitted tonight or later to Dan Priestley at **dpriestley@woodburycountyiowa.gov** or to **Woodbury County Planning and Zoning, 620 Douglas Street, Sixth Floor, Sioux City, IA 51101.**
- I will now turn it over to the zoning staff for remarks.

3. ZONING STAFF COMMENTS & PLAN FOR THE EVENING (ZONING STAFF)

- Brief overview of the Commission’s mission and the study process.
- Confirmation that the evening’s plan is for everyone who wishes to speak to have the opportunity to do so.
- Any logistical notes (sign-in sheet location, speaking procedure, how comments will be recorded).
- Reminder of additional town halls (Merville, Salix, and others as needed) and the written comment option.
 - **MOVILLE TOWN HALL**
 - Date & Time: Monday, September 21, 2026 at 7:00 PM
 - Location: Merville Community Center
 - Address: 815 Main Street, Merville, IA 51039
 - **ZONING COMMISSION REGULAR MEETING**
 - Date & Time: Monday, September 28, 2026 at 5:00 PM
 - Location: Woodbury County Courthouse (Basement)
 - Address: 620 Douglas Street, Sioux City, IA 51106
 - **SALIX TOWN HALL**
 - Date & Time: Monday, November 9, 2026 at 7:00 PM
 - Location: Salix Community Center
 - Address: 317 Tipton Street, Salix, IA 51052

4. PUBLIC COMMENT PERIOD

- Chair or staff announces 3-minute mark with 30 seconds to conclude.
- After the formal queue is exhausted, offer a final call for additional speakers.
- If attendance is very large, consider brief grouping of similar points only if speakers voluntarily agree; otherwise maintain individual three-minute turns.

Handling interruptions or disruptions: Chair calls for a pause, restates the ground rules, and, if necessary, calls for a short recess.

Documentation: Staff records speaker name, key points, and any specific recommendations. Written comments will be accepted.

5. CLOSING (CHAIR)

- Thank all participants.
- Summarize that input will be compiled and considered by the Commission as it prepares its recommendation.
- Remind attendees of remaining town hall dates, written comment channels, and the county website (www.woodburycountyiowa.gov) (www.woodburycountyiowa.gov).
- Provide contact information for Dan Priestley, Zoning Coordinator: (712) 279-6609.
- Adjourn the meeting.