

# Northwestern energy storage



UL1973 / UL9540A / FCC  
UN38.3 / IEC62619 / CE  
CEI 0-21 / VDE2510-50  
UK

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## Overview

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How much will NorthWestern's Energy Storage project cost?

The Public Service Commission this week voted unanimously to proceed with NorthWestern's application to purchase energy storage at the battery facility over the next 20 years at an estimated cost of \$145 million.

What is NorthWestern Energy's 50 megawatt battery energy storage system?

These characteristics will facilitate the integration of existing and new intermittent renewable energy resources into our portfolio. The 50 megawatt battery energy storage system, is expected to be available to serve NorthWestern Energy's Montana customers by the end of 2023.

Will Montana consider NorthWestern Energy's first-ever battery storage facility?

Montana regulators say they'll consider NorthWestern Energy's plans for the state's first-ever battery storage facility despite unanswered questions about customer costs.

Who is NorthWestern Energy?

For more than 100 years, NorthWestern Energy has been committed to delivering safe, reliable and innovative energy solutions. We serve gas and electric to customers in the western two-thirds of Montana and eastern South Dakota. We also have gas service in Nebraska, and serve electricity to Yellowstone National Park.

How many communities does NorthWestern Energy serve?

NorthWestern Energy serves 337 communities in Montana, South Dakota and Yellowstone National Park with safe and reliable electricity. We serve natural gas to 202 communities in Montana, South Dakota and Nebraska. Our carbon-free hydro system is the foundation of our energy generation portfolio in Montana.



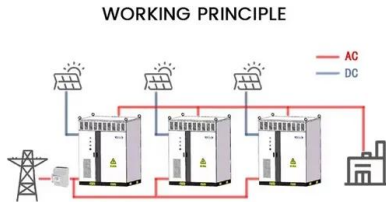
Is NorthWestern Energy building a new battery plant in Montana?

Credit: Adobe stock. May not be republished without license. NorthWestern Energy submitted an application to the Montana Public Service Commission Wednesday to build a new 175-megawatt natural gas plant and move forward with Montana's first utility-scale battery project.



## Northwestern energy storage

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### [Re: NorthWestern Energy Firm Gas Storage](#)

NorthWestern Energy is offering 5,000 dekatherms per day of firm storage deliverability, and 370,000 dekatherms of firm storage capacity. Up to 92,500 dekatherms can be sourced for ...

### **Don't be fooled by NorthWestern Energy's 'greenwashing' scam**

Don't be fooled by NorthWestern Energy's greenwashing scam. The utility flaunts a concern for its environmental impact, claiming to be a regional leader with nearly 60% carbon-free electricity and a 2050 carbon neutrality goal. However, this is all a smokescreen.



### [How to decode your NorthWestern Energy bill](#)

Tax-based rates for NorthWestern's electricity customers were reduced on Jan. 1, 2024, as a result of a 20% decline in NorthWestern Energy's property tax bill between 2022 and 2023.

### **Brookings facility using natural gas from cattle manure is first of**

BROOKINGS -- A new facility sending renewable natural gas made from dairy cattle manure to local energy customers could be the first of several such plants, a utility company said Monday while celebrating Earth Day. Natural gas



is mostly methane. It's typically extracted by fracking and drilling into shale formations, and used to heat homes or to fuel power plants ...



### NorthWestern Energy enters contracts for 325 megawatts of

The 50 megawatt battery energy storage system, is expected to be available to serve NorthWestern Energy's Montana customers by the end of 2023. "The energy storage ...

### NorthWestern Energy enters contracts for 325 megawatts of ...

NorthWestern Energy's Laurel Generating Station will be a new 175 megawatt, reciprocating internal combustion engine (RICE units), natural gas plant in Laurel, Montana. Powerex Corp., a



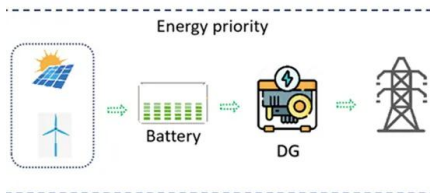
### [Our Projects at NorthWestern Energy](#)

NorthWestern Energy is committed to investing in South Dakota's energy future through a variety of projects. We're replacing 17,000 NorthWestern Energy-owned streetlights and yard lights in South Dakota with LED lights, which use 50% less electricity than traditional high-pressure sodium (HPS) lights.



### Net metering for private solar and wind generation

NorthWestern Energy customers may have an AMI Meter installed at the premise. We will communicate with the meter to update the meter to net metering. No visit to the premises or interruption of service is needed. NorthWestern Energy customers who do not have an AMI Meter installed at the premises will require a meter exchange to be completed at their premises.



### Sleepy Hollow Oil and Gas

If you have not yet spoken with a NorthWestern Energy representative, we ask you to please call us and confirm the information we have for you is accurate. 888-467-2669 After the emergency prompts, push 3 and then 1 and ask to speak with Christina L. 7 a.m

### Efficiency Rebates and Incentives

NorthWestern Energy offers a variety of rebates and incentives to help improve the energy efficiency of the homes in our community. We offer tools and information to help you better manage energy costs and, where applicable, obtain rebates or incentives to help offset the purchase and installation of qualifying measures.



### 20 ANNUAL REPORT

NorthWestern Energy provides electricity and natural gas in the upper Midwest and Northwest, serving approximately 743,000 customers in Montana, South Dakota, Nebraska and Yellowstone National Park. Our business consists of federal- and state-regulated operations, including electric and natural gas distribution and



### [Bill Payment Options , NorthWestern Energy](#)

As a NorthWestern Energy customer, you have several payment options. Choose the option that is best for you! One-Time Payment Make a one-time payment instantly online for free with your checking or savings account or with a credit or debit card for a \$2.75



### **NorthWestern's plans for state's first battery-storage ...**

5 ???· The Public Service Commission this week voted unanimously to proceed with NorthWestern's application to purchase energy storage at the battery facility over the next 20 years at an estimated

### **NorthWestern Energy enters contracts for 325 megawatts of ...**

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### **NorthWestern Energy: Rates, Coverage Area, Emissions**

The average residential electricity price for customers of NorthWestern Energy is around 14.15 cents per kilowatt hour. This is 10.33% lower than the national average price of 15.77 cents. They sold 2, 576, 484 megawatt hours through wholesale channels to other electricity suppliers in 2023.



### NorthWestern's plans for state's first battery-storage project

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### [Hydropower in Montana , Clean Energy](#)

33% of our electricity for our Montana customers comes from 100% clean hydroelectricity. First built in 1915, the Thompson Falls dam is a seven-unit hydroelectric plant on the Clark Fork River in Thompson Falls, Montana. ...

### The value of long-duration energy storage under various grid

4 ??? Long-duration energy storage (LDES) is a key resource in enabling zero-emissions electricity grids but its role within different types of grids is not well understood. Using the



### [Natural Gas Rates & Tariffs](#)

NorthWestern Energy provides natural gas and electricity services through tariffs filed with and approved by the Montana Public Service Commission (MPSC). Users of electronic tariffs should note that such tariffs are not the official documents, and users assume responsibility for reliance upon tariffs in electronic format.



### Data-Driven Distributionally Robust Energy-Reserve-Storage ...

This paper proposes distributionally robust energy-reserve-storage co-dispatch model and method to facilitate the integration of variable and uncertain renewable energy. The uncertainties of renewable generation forecasting errors are characterized through an ambiguity set, which is a set of probability distributions consistent with observed historical data.



### Construction Application , NorthWestern Energy

an unsafe environment please ensure you retreat to a safe and secure area and dial 911 and one of the following NorthWestern Energy emergency numbers: Montana: 888-467-2669 South Dakota: 800-245-6977 Nebraska: 800-245-6977 Electric

### Energy Explorers: Powering a Sustainable Future

Recent work by a Northwestern team could impact the design of next-generation grid-scale electrochemical storage. There are exciting opportunities that arise from this ...



### Natural gas plant, battery storage: What's next for NorthWestern Energy?

NorthWestern Energy submitted an application to the Montana Public Service Commission last week to build a new 175-megawatt natural gas plant and move forward with Montana's first utility-scale battery project.



NorthWestern Energy's Environmental Projects

NorthWestern Energy's policy is to provide cost-effective, reliable and stably priced energy while being good stewards of natural resources and complying with environmental regulations. NorthWestern Energy dedicates time and resources toward providing sustainable energy options for our customers.

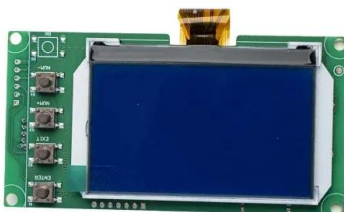


**Supporting Documentation for Volume 1, Chapter 3 Battery Storage ...**

Battery Storage Project NorthWestern Energy purchased and installed a battery to test using storage for feeder support. Although the source of funding for this project is in the Research and Development Category of the USB Program, it is worth noting

**NORTHWESTERN ENERGY: NET ZERO BY 2050**

NorthWestern Energy provides electricity and natural gas in the upper Midwest and Northwest, serving approximately 734,800 customers in Montana, South Dakota and Nebraska. Our business consists of federal- and state-regulated operations, including electric and natural gas distribution and transmission, electric generation



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5 ???· Montana regulators say they'll consider NorthWestern Energy's plans for the state's first-ever battery storage facility despite unanswered questions about customer costs.



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