

# North Dakota’s Delicate Electricity Price Balance Faces Challenges

*Desire to add large loads comes up against cost inflation, renewables buildout*  
**By Michael Standaert**  
*North Dakota News Cooperative*

As an energy exporter blessed with abundant supply, North Dakota consistently ranks among the cheapest states in the country when it comes to residential, commercial and industrial electricity rates.

Exploding costs of transmission, the buildout and replacement of transmission infrastructure and the increase in energy load have helped push residential electricity prices modestly higher in recent years, however.

Average residential per kilowatt-hour of power increased by nearly 30% in the state between 2020 and 2024.

A recent study by Lawrence Berkeley National Laboratory showed that North Dakota actually had the largest decrease in average retail industrial and commercial electricity prices in the country over that span, with flat or slightly lower rates for residential users, when adjusted for inflation.

Most of the real cost rise is due to the increased expense of transmission as well as materials, build outs, generation and transportation needed to keep up with energy demand and to replace aging systems.

Take transformers for example: they cost 70-100% more now than five years ago, according to International Energy Agency data. Aluminum and copper wiring is up to 50% more costly. Labor costs have also increased by around 20-40%.

“Four or five years ago, it was \$400,000 a mile to build a transmission line. Now it’s \$2 million a mile,” said Josh Kramer, executive vice president and general manager at North Dakota Association of Rural Electric Cooperatives. “Generation used to cost about \$800 a kilowatt. Now it’s \$2,700 a kilowatt.”

The cost of nearly every input into the energy transmission and maintenance system rose, on average, as much as 50%, he said.

State Sen. Dale Patten (R-Watford City) said replacement and upgrade costs of infrastructure are also one key component, particularly to improve resilience against severe weather events in rural areas.

“A lot of the existing infrastructure is old, 50, 60, 70 years old in some cases, and the cost of replacing it is not cheap,” said Patten, who chairs the legislature’s Energy and Natural Resources committee.

Population growth and shifts in that growth toward the main cities in the state are also a driver, he said.

“You have to build the infrastructure to support that population growth and that corresponding economic growth,” Patten said.

Another major driver is transmission costs.

“As we look at the regulated utilities when they come in for rate cases, it seems like one of the areas where their costs are exploding the most is transmission,” said Public Service Commission commissioner Randy Christmann. “Transmission costs are exploding.”

Christmann said some of the blame goes to buildout of remote renewables projects in the wider region, as well as the closure of coal fired power plants around the county leading to increased load on North Dakota power providers as regional transmission organizations spread costs around.

In 2024, North Dakota exported around 32% of generated electricity and exported 85% of natural gas extracted, according to the Department of Commerce.

**Managing large loads**

Adding large loads onto the grid across the country at the same time as all of these other cost increases has spiked energy prices in most other locations.

So far, North Dakota has dodged that for the most part, even as its lower electricity rates are attractive to industrial operations looking to add large loads in the system.



*A lineworker works to repair damage near Crosby to a powerline caused by a spring storm in northwestern North Dakota. Photo provided by the North Dakota Association of Rural Electric Cooperatives.*



*Rising costs and inflation also pressure electricity rates. Downed power lines and utility poles and associated equipment costs, on average 25-50% more now than just five years ago to replace. Photo provided by NDAREC.*

Large loads can include everything from operations like data centers, to oil refineries, to agricultural processing facilities and even the capital complex in Bismarck. Currently, there are 23 larger data centers in North Dakota.

When it comes to data centers, North Dakota has managed to add those large loads without jacking up electricity prices for consumers.

There are concerns about whether that can continue to be the case.

“I have seen them have very adverse impacts and very positive impacts,” said Christmann. “It depends on the details of the specific data center.”

Managing that going forward will be a challenge for the commission and legislators.

State Rep. Anna Novak (R-Hazen) is currently leading the legislature’s interim Energy Development and Transmission Committee to study large loads such as data centers and try to find a way to balance attracting those projects without overburdening other electricity consumers.

“We need to strike a balance of making sure that we’re open for business, but that we have a strong vetting process,” Novak said. “I think that the vetting process is getting better.”

Besides cheaper electricity prices and available power, the policy and regulatory climate in the state is also attractive for tech companies looking to site a data center.

Data centers are also attracted to North Dakota’s readily available water supply and cooler temperatures, which cut operating costs.

Novak said cost savings for data centers choosing to locate here can amount to the billions.

“We are certainly a desirable place to put a data center,” Novak said.

The most well-known data center in the state, Applied Digital’s facilities near Ellendale, has become a case study for how to add a large load while keeping the local impact minimal and also providing benefits across the state.

By tapping into stranded power

Darcy Neigum, vice president of electric supply for Montana-Dakota Utilities, said that customers saved around \$70 last year because of the facility, and once it is fully built out, savings could come out to around \$250 per year per customer.

“We’re very aware of the rates we’re charging to our customers and the rate impacts,” Neigum said. “The approach that we took (with the Ellendale facility) was to try to find some way to create value instead of just putting costs on customers.”

**Insulating consumers from costs**

Investor-owned utilities like MDU as well as electric cooperatives like Basin Electric Power and Minnkota are all trying to figure out how to manage large loads going forward.

Basin Electric adopted a large load program in June as a way to minimize rate impacts for cooperative members and reduce the risk of stranded assets that come with single projects looking for 50, 100 or more megawatts of power in the future. Minnkota Power Cooperative has also adopted a similar policy.

“So, when we have those inquiries coming in, whether it’s a large tech company or a large industrial load, we’re saying we want to serve you, but to do that you’re going to have to bear the costs associated with it,” Kramer said. “That goes for if they need to add more infrastructure, or generation or engineering studies.”

MDU’s Neigum said the company doesn’t have a formal policy yet, but the uptick in interest in adding large loads may necessitate one.

“We do have a process we go through, and we’re kind of formalizing some of that, because there are just so many requests,” Neigum said.

One delicate aspect in all of this is putting into place policies that protect consumers or co-op members from additional costs without scaring quality projects away from the state.

Kramer said that’s not necessarily a bad thing.

“It’s probably helped separate the wheat from the chaff a bit,” Kramer said.

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## NDDOT Reminds Landowners To Keep Right Of Way Clear Of Snow

The North Dakota Department of Transportation reminds landowners not to push snow into the right of way or ditches on state highways. This includes the roadway, ditch bottom, and backslope of the roadway.

State law prohibits a person from obstructing any public highway or right of way. Keeping the ditches and right of way clear reduces the risk of snow drifting on state highways, creating better visibility for motorists and provides room for future snowfall.

“The NDDOT is committed to maintaining a highway system that is safe for all users,” said Wayde Swenson, NDDOT office of operations director. “We’re grateful to landowners for helping us keep these areas clear and safe.”

For more information on transportation, visit dot.nd.gov.

## NDSU Livestock Record Management Program Set

North Dakota State University’s North Central Research Extension Center in Minot, North Dakota, will host a livestock record management program on January 13 from 1 to 3 p.m.

The Ranch Counts and Calculations workshop will provide livestock producers with a hands-on opportunity to learn how to manage and evaluate spreadsheet-based performance records to maximize returns on labor and make confident herd management decisions.

“Management records may be one of the most underutilized tools in our toolbox,” says Lacey Quail, NDSU Extension livestock management specialist. “Calving season is generally a time of year when information gets recorded, but using those records to make informed management decisions is what makes them truly valuable.”

Quail encourages producers to bring their laptops and records, digital or handwritten, to the program. Topics covered will include the following:

- Which information can be most beneficial, and how to record it
- How to quickly identify culls or replacements based on specific criteria
- How to automatically calculate production metrics, such as adjusted weaning weights or estimated calving dates
- How to create easy-to-use summaries of birth/weaning weights, pregnancy rates and dystocia issues by management group or sire

“Ranchers are already doing the hard work of gathering information out in the pasture and barn,” says Paige Brummund, NDSU Extension agent for Ward County. “This workshop helps bridge the gap between collecting those records and turning them into practical decisions that improve herd performance and long-term profitability.”

Brummund says that their goal is to make record-keeping feel less overwhelming and more rewarding for every operation.

Quail encourages producers to come with specific questions or examples they’d like to implement in their own records, in addition to the topics offered.

There is no cost to attend. To register or learn more, visit [ndsuhq.com/recordmgmt26](https://ndsuhq.com/recordmgmt26).

For more information, contact Quail at [lacey.quail@ndsuhq.com](mailto:lacey.quail@ndsuhq.com).

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Dr. Tracy Tomjack, DO McKenzie County Specialty Clinics Orthopedics Specialist	701-444-8730	
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**PARTNERING FOR THE FUTURE**

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