

Macro Roundup Article

Headline: [The Aging U.S. Power Grid Is About to Get a Jolt](#)

Article Link: <https://www.wsj.com/business/energy-oil/the-aging-u-s-power-grid-is-about-to-get-a-jolt-144e7fdc#>

Author(s)	Scott Patterson
Publication	Wall Street Journal
Publication Date	June 07, 2024

Tweet: New technologies allow electric utilities to monitor transmission capacity in real-time, a system known as dynamic line rating. A pilot project in Minnesota showed this technology could increase existing transmission line capacity by about 40%.

Summary: The country's aging power grid is about to leap into the 21st century as the Biden administration scrambles to meet a coming burst of new power demand. To boost the grid's capacity, the administration is pushing to step up efficiency of existing power lines with new technologies. The upgrades are far cheaper and faster than big transmission projects. In Illinois, Algonquin Power won a \$42.9 million grant to install devices that automatically redeploy power when lines are overloaded. Virginia's Dominion Energy won \$33.7 million for a project that includes devices that will let it adjust power distribution in response to changing conditions on the grid. In Minnesota, a pilot project by Great River Energy showed that Heimdall's sensors could increase transmission capacity by about 40%. Known in the industry as "magic balls," the sensors measure in real time how weather conditions and other factors affect power lines. When the wind blows, for example, power lines are cooler, allowing for more capacity.

Related Articles: The U.S. Urgently Needs a Bigger Grid. Here's a Fast Solution and Resurgent US Electricity Demand Sparks Power Grid Warnings and Electricity 2024

Primary Topic: Energy

Topics: Database, Energy, Innovation/Research, Investment, News article, Productivity

Permalink: <https://www.edwardconard.com/macro-roundup/new-technologies-allow-electric-utilities-to-monitor-transmission-capacity-in-real-time-a-system-known-as-dynamic-line-rating-a-pilot-project-in-minnesota-showed-this-technology-could-increase-exist?view=detail>

Featured Image Link: <https://www.edwardconard.com/wp-content/uploads/2024/06/21243-the-aging-u-s-power-grid-is-about-to-get-a-jolt-space-filling-graphic.png>