



The Infrastructure Investment and Jobs Act appropriated unprecedented funding for electric grid investment and expansion, including \$13 billion in grants that can be applied to Grid Enhancing Technologies (GETs).

About Grid Enhancing Technologies (GETs)

GETs increase the capacity, efficiency and reliability of the transmission grid, and are deployed around the world. They can double the capacity for new, low-cost renewable energy on the grid, and the yearly cost-savings from GETs generally pay back their one-time installation cost in less than two years. GETs can be installed in weeks without disrupting service.

Commercially Available GETs Solutions

GETs include Dynamic Line Rating technologies, which monitor conditions on power lines to measure their true capacity and allow increased flow when safe; Advanced Power Flow Control, modular devices that change line impedance to route power to lines with available capacity; and Topology Optimization software that identifies grid reconfigurations to ensure maximum transmission capacity over existing infrastructure.

Public Service Commissions should open a proceeding to instruct stakeholders to pursue available federal funding and report to the commission about their applications. [Illinois](#), [Michigan](#), [Nevada](#), and [North Carolina](#) have all taken this step as of June 2022.

Available Infrastructure Investment and Jobs Act Funding for GETs Deployment

Preventing Outages and Enhancing the Resilience of the Electric Grid Grants - \$5 billion

State and tribal governments can apply for Formula Grants for Preventing Outages and Enhancing the Resilience of the Electric Grid, which will amount to \$459 million per year over five years. The other half of the program will fund competitive matching grants for industry. GETs improve resilience by increasing the flexibility of the grid, either to manage short-term extreme conditions or speed recovery after disaster. By using grid infrastructure to its full capacity, ratepayers will save money and experience less disruption of service. The program will prioritize grants to projects that will generate the greatest community benefit, whether rural or urban, in reducing the likelihood and consequences of blackouts and power shutdowns because of extreme weather or other disruptive events like cyberattacks. **The application deadline is September 30, 2022.**

Smart Grid Investment Grants – \$3 billion

Owners of grid assets can apply for cost-matching grants to install GETs or other smart grid technologies. Begun under the Energy Independence and Security Act of 2007, this program helped deploy synchrophasors across the grid and smart meters in homes. The expanded program now includes Dynamic Line Ratings, Advanced Power Flow Control and Topology Optimization as eligible technologies and has \$600 million in funding available each year.

Program Upgrading Our Electric Grid and Ensuring Reliability and Resiliency - \$5 billion

States, public service commissions, and tribal and local governments can apply for competitive grants to demonstrate innovative reliability and resilience investments, to implement in partnership with a grid asset owner. The program will appropriate \$1 billion annually over five years.





Other Federal Funding for Deployment of Grid Enhancing Technologies

▶ **GETs Increase Competitiveness of Applications for Transmission Facilitation Program and or other Grid Funding**

The Department of Energy will likely release evaluation criteria for competitive grants and loans funded through the Infrastructure Investment and Jobs act by the end of 2022. Projects that show rapid return on investment, in addition to resilience, clean energy integration, or other benefits, are likely to win out. Adding GETs to plans for broader projects is an easy way to increase the overall value of a proposal.

▶ **Congressionally Directed Spending**

Government entities as well as nonprofit organizations such as electric cooperatives and municipal utilities can work with their Congressional representatives on direct congressional appropriation to fund GETs deployments.



For More Information >>

Updates to these funding opportunities will be posted to
<https://www.energy.gov/oe/federal-financing-tools>

Opportunity announcements will be posted to
<https://www.energy.gov/bil/bipartisan-infrastructure-law-programs>.

For more information about Grid Enhancing Technologies visit
<https://watt-transmission.org/>

Questions about the technologies and their applications for grid reliability and resilience, renewable energy integration, and customer savings can be directed to Julia Selker at jselker@gridstrategiesllc.com.

