



Village of DeForest Board Information Session QTS Wisconsin – Utilities

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Electric Grid Basics



Step 1

Energy Sources Create Electricity

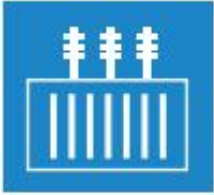
- Electricity starts at generation facilities like wind turbines, solar panels, natural gas, coal plants or others.
- These sources convert energy into electrical power.



Step 2

Transmission – Moving Power Where It's Needed

- Once electricity is generated, it flows into high-voltage transmission lines.
- These lines act like energy highways, carrying electricity across long distances.
- Why high voltage? It reduces energy loss during travel.



Step 3

Substations – Adjusting Voltage

- When electricity gets closer to cities and towns, substations lower the voltage so it's safe for local use.
- Think of this as changing from a fast highway to slower local roads.

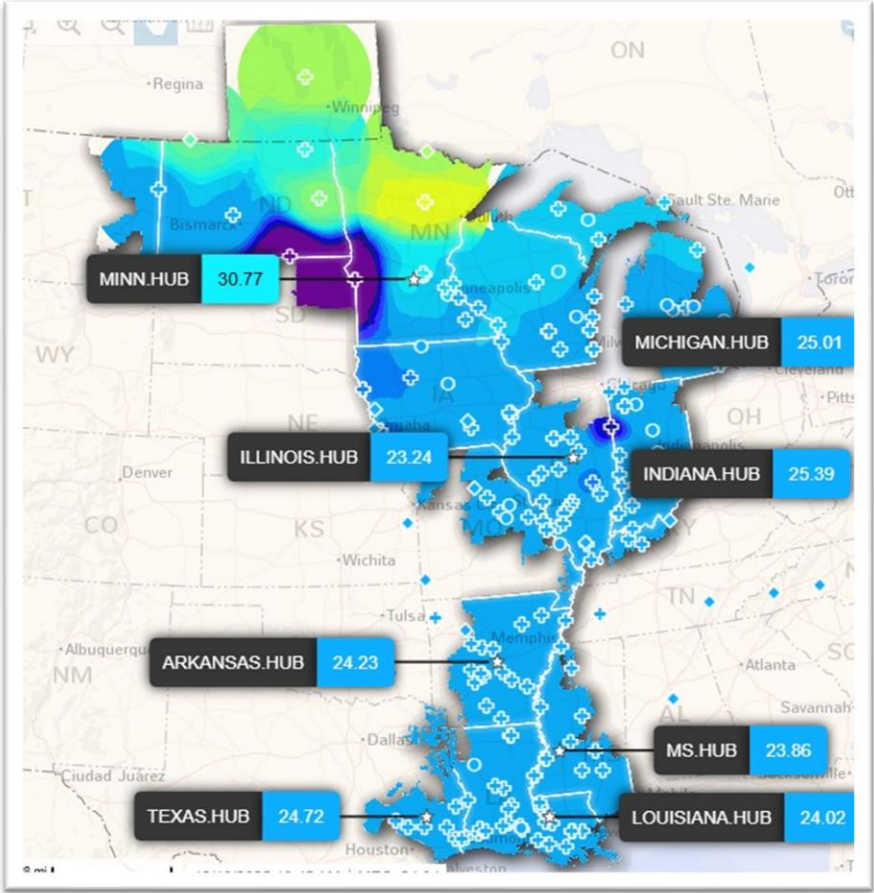


Step 4

Distribution – Delivering to Homes and Businesses

- Electricity flows through smaller distribution lines in neighborhoods.
- It reaches homes, schools, and businesses so you can turn on lights, charge devices, and power appliances.

MISO Territory Map





Energy Reliability

Alliant Energy at a glance



1 million electric customers
430,000 gas customers



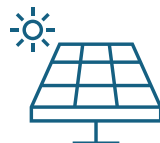
3,000 dedicated employees



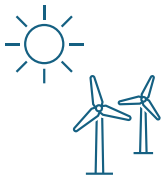
\$9.3 million given to non-profit organizations to help those in need



Top 5 largest regulated wind owner-operator



Top 5 largest regulated solar owner-operator

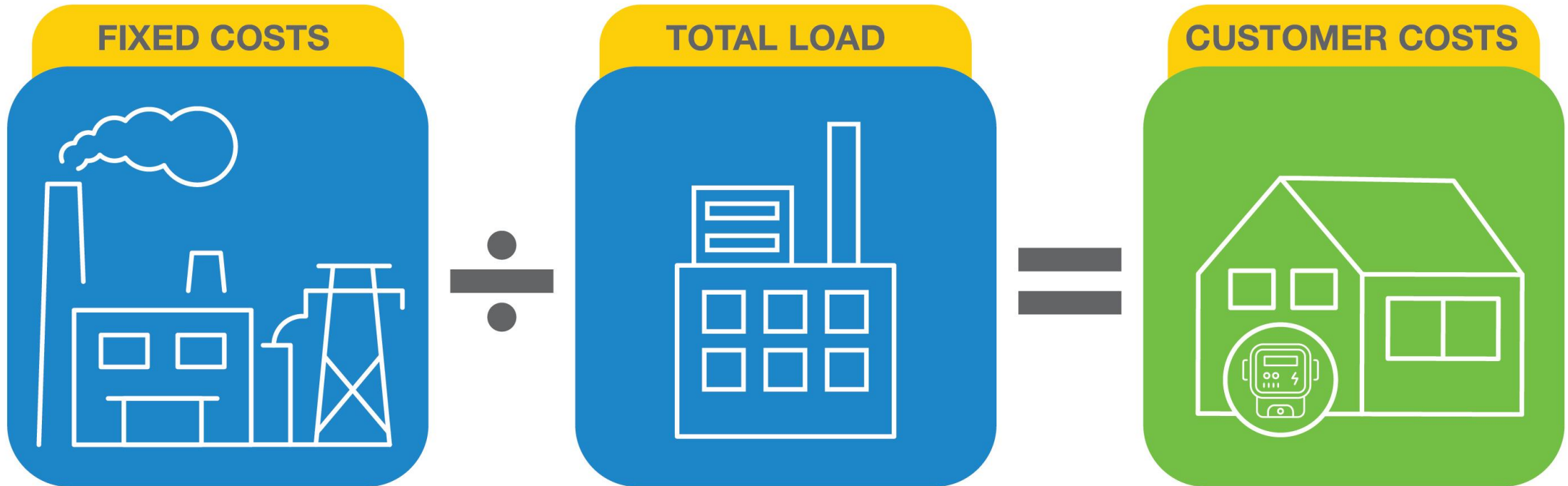


~44% of energy from renewable resources in 2024

Economic Development & Community Growth



Cost Misconceptions





**Reliability for
Community &
Customers**