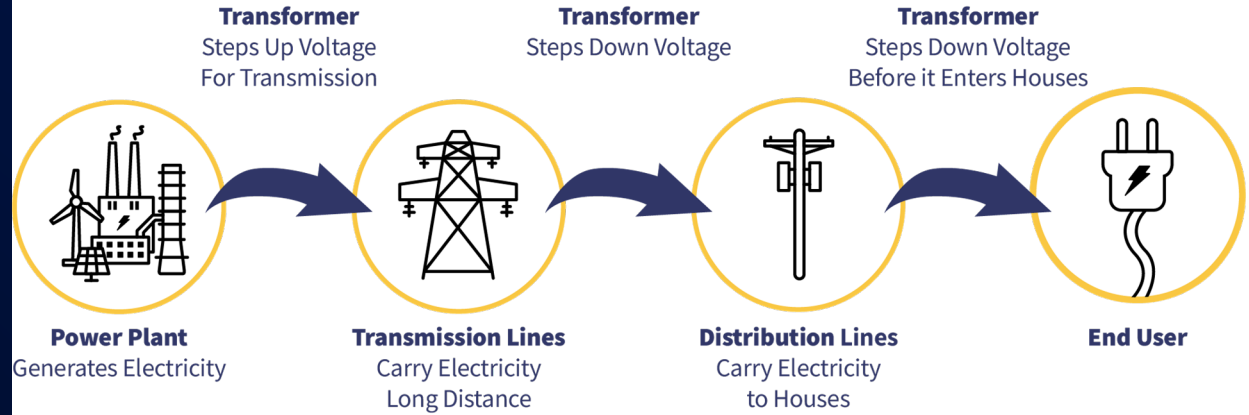


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# The basics.



1. Generation.
2. Transmission.
3. Distribution.

# The economics of the grid.

1. Capacity and Energy.
2. MW and MWh.
3. Reserve margin.
4. N- 1.
5. Security constrained economic dispatch within a balancing authority.
6. The grid is a network that must be planned.

# Transmission planning.

1. Reliability is the first priority.
2. Extended planning horizon.
3. Multiple Scenarios.
4. Multiple benefit streams.
  - A. Reliability.
  - B. Lower cost generation access.
  - C. Environmental policy goals.
5. Benefits of scale.
6. The goal: A more robust grid paid for by generation savings to the extent possible.

# Challenges of using right of way for the grid.

1. Governmental entities must work together.
2. The rules of the road must be known to transmission planners.
3. Available highway right of way must match grid planning output in a way that reduces cost.

THANK YOU!

