100% Clean Electricity by 2035 Study

An NREL study shows there are *multiple pathways* to **100% clean electricity by 2035** that would produce significant benefits exceeding the additional power system costs.

Key Findings:

- Technology deployment must rapidly scale up
 - 4x the current annual deployment levels for wind and solar
 - Growth of emerging clean energy and storage technologies.
- Total transmission capacity must grow significantly
 - Up to 3x today's capacity, or between 1,400 and 10,100 miles of new high-capacity lines per year starting in 2026.
- The climate and health benefits of decarbonization *offset the costs*, saving:
 - 130,000 lives and \$390-\$400 billion in avoided mortality costs
 - \$1.2 trillion in avoided damages from climate change
 - \$920 billion to \$1.2 trillion in overall net benefits to society.



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