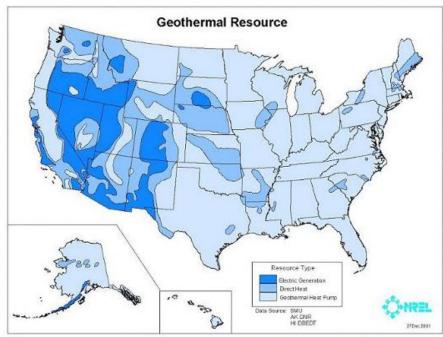
Geothermal Resources and Technologies





The net economic benefits were \$35.8 billion (2008\$), on the reviewed program investment of \$1.4B in:

- Polycrystalline diamond compact (PDC) drill bit;
- · Binary cycle power plant technology;
- · TOUGH series of reservoir models;
- High-temperature geothermal well cements.



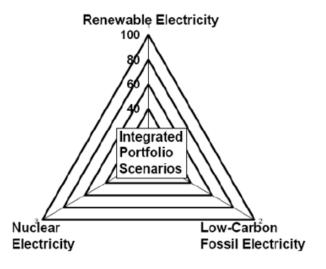
Renewable Electricity Systems



Context

- Three primary pathways for providing clean electricity:
 - Renewable energy;
 - Nuclear energy;
 - Fossil energy with carbon capture, utilization, and storage (CCUS).

All will likely contribute to clean electricity needs for the foreseeable future.



- Energy efficiency improvements in end-use sectors are a critical contributor to all these pathways
- This multi-pathway approach is consistent with the Administration's all-of-the-above energy strategy.
 - In the electricity sector, this strategy is further defined by the Administration's goal of achieving 80% of electricity generation from clean electricity sources by 2035— renewables, nuclear, efficient natural gas, clean coal.