

Illinois 38th District Energy Profile



Nuclear

Illinois leads all states in nuclear power capacity and electricity generation, accounting for 10% of the national total. Nuclear power accounts for nearly half, 49.2%, of all Illinois power generation, at more than 95 million megawatt hours in 2009. The three plants highlighted below represented 55.7% of the total Illinois nuclear energy portfolio in 2009.

- **Dresden Generating Station**
 - Nation's first full-scale private nuclear plant, began operation in 1960
 - Unit 2 is capable of generating 869 MW; Unit 3, 871MW
 - 2010 Net Generation: 14.6 million MWh
 - 2010 Capacity Factor: 95.1%
 - Current licenses extend through 2030 and 2031
 - Power for 1.5 million homes
- **Braidwood and LaSalle County Generating Stations**
 - Located 1 mile east and 3 miles west of Grundy County respectively
 - LaSalle County capable of generating 2,286 MW
 - Braidwood Station capable of generating 2,360 MW
 - 2010 combined output: 38.3 million MWh
 - Combined 4.6 million homes served
- **General Electric Nuclear Fuel Storage Facility**
 - Pool Storage Facility operating adjacent to Dresden Nuclear
 - NRC license extended to 2022

Natural Gas Processing

- **Aux Sable Liquid Products**
 - Capable of processing 2.1 billion cubic feet per day of natural gas
 - Daily extracting and fractionating capabilities of 102,000 barrels per day of NGL products
 - Terminus of the Alliance Pipeline extending from British Columbia across multiple natural gas delivery points
 - Alliance Pipeline operates at a maximum pressure of 1,935 psi, and is capable of delivering 5,360 million cubic feet per day
- **Kendall Power**
 - Located 1 mile north of Grundy County line in Minooka
 - Combined-cycle facility with a capacity of 1,160 MW



Wind

- **Horizon Wind Energy Top Crop I Wind Farm**
 - Spans Grundy, Livingston and LaSalle Counties
 - 68 GE 1.5 MW turbines; 102 MW total capacity
 - Provides enough power for 28,000 homes
 - Contracted to sell to Commonwealth Edison in 2012; currently selling output in regional wholesale market
- **Horizon Wind Energy Top Crop II Wind Farm**
 - Located wholly within Grundy County
 - 132 GE 1.5 MW turbines; 198 MW total capacity
 - Provides enough power for 54,000 homes
 - Currently selling output to Constellation Energy



Energy Transmission Assets

- 765kV transmission line, 1 of only 4 in the nation
- Proposed transmission project by Clean Line Energy would potentially deliver 3,500 megawatts of wind energy from plains states to eastern consumers by utilizing this 765 kV line asset



Alternative Fuel

- **Renewable Energy Group (REG) Seneca, LLC**
 - Biodiesel producer capable of 60 million gallons per year
 - Utilizes fats and crude and refined oils for feedstock



Oil Refining

- **ExxonMobil Joliet Refinery**
 - Located 3 miles east of Grundy County line in Channahon
 - 24th highest operable capacity refinery in the United States at 238,600 bbl/d

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