



FPL Energy.

Duane Arnold Energy Center

Duane Arnold Energy Center Fact Sheet

Description

LOCATION: Located near Palo, Iowa – approximately 9 miles northwest of Cedar Rapids

CAPACITY: One unit with a net electrical output of 613.5 MWe

**ARCHITECT-ENGINEER/
CONSTRUCTOR:** Bechtel Power Corp.

Primary Systems

Reactor Type: General Electric boiling water reactor

Reactor Core: 368 fuel assemblies

Reactor Vessel: 67' high, 15' wide

Reactor Containment Building: General Electric Mark 1 Design

Secondary Systems

Turbine: General Electric 1800 rpm

Generator: General Electric 22 kV

Cooling Towers: Mechanical draft type – 2 towers, 12 cells each, make-up water from Cedar River

Milestones

Construction permit granted: June 1970

Full-power operating license granted: February 1974

Commercial Operation started: February 1975

General Information

The Duane Arnold Energy Center (DAEC) is bordered by cornfields of neighboring farms and the banks of the Cedar River. The plant is 70 percent owned by FPL Energy Duane Arnold; 20 percent by Central Iowa Power Cooperative; and 10 percent by Corn Belt Power Cooperative.

Electrical capacity is 613.5 megawatts (net), enough to serve approximately 490,000 Iowa homes

The DAEC uses a proven operating philosophy based on safety first, conservative decision making, a commitment to the task at hand and doing the job right the first time. It is this philosophy, combined with tremendous employee dedication, that enables the DAEC to meet the challenges of a competitive environment in the utility industry.

The DAEC has been an important part of the electric energy supply system in Iowa since the plant's startup in 1974. For more than 30 years it has been generating safe, clean energy, and continues to be an important part of a diverse energy mix for its customers.

DAEC generated more than 5,100,000 megawatts in 2006. Since its 2007 refueling outage, the site is safely generating more megawatts than ever after boosting its capacity to from 592 to 613.5 megawatts. This represents a 3.6 percent increase in capacity.

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