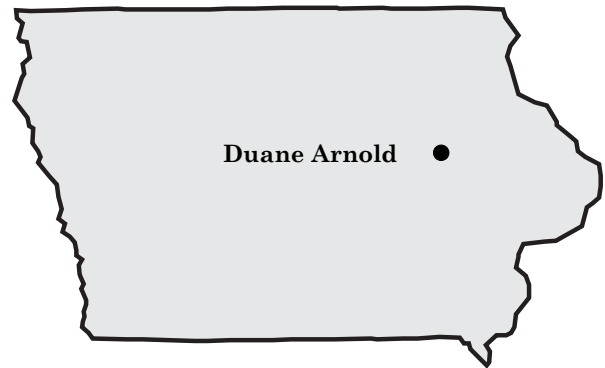


Nuclear Energy in Iowa

July 2007

Iowa's Electricity Generation

Nuclear	11.2%
Coal	76.1%
Oil	0.2%
Gas	5.3%
Hydro	2.0%
Renewable and Other	5.2%



Source: EIA, 2006



Nuclear Power Plants in the State

			2006	2004-2006	
	City	Capacity (MW)	Generation (MWh)	3-year Average Capacity Factor (%)	
	Duane Arnold	Palo	581	5,095,442	96.3

Source: Energy Information Administration

Clean Air Benefits

Economic Growth and Emission-Free Electricity
Iowa has experienced an average growth in Gross State Product of 2.7 percent per year over the past 5 years. To keep Iowa's economy growing, the state will need new sources of power. Emission-free sources, like nuclear power plants, supply safe, reliable and affordable power to meet the state's economic growth without polluting the air.

Nuclear Energy Prevents Emissions

Generating electricity with nuclear energy prevents the emission of pollutants like sulfur dioxide (SO₂) and nitrogen oxides (NO_x) and greenhouse gases like CO₂ associated with burning fossil fuels. Duane Arnold avoided the emission of 17,600 tons of SO₂, 11,000 tons of NO_x and 5.3 million metric tons of CO₂ in the year 2006. (Source: NEI/EPA) Emissions of SO₂ lead to the formation of acid rain. NO_x is a key precursor of both ground level ozone and smog. Greenhouse gases, like CO₂, contribute to global warming.

SUITE 400

1776 I STREET, NW

WASHINGTON, DC

20006-3708

202.739.8000

www.nei.org

Nuclear Energy in Iowa

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For perspective, the 11,000 tons of NO_x avoided by the nuclear power plant in Iowa is the amount of NO_x released in a year by 580,000 passenger cars. There are 1.8 million cars registered in the state of Iowa.

Potential Uprates at Nuclear Plants

With additional capital investment, more emission-free power can be generated at most existing nuclear power plants. This process of

increasing power output capacity is called an “uprate.” According to an analysis performed for the U.S. Department of Energy, uprates at Iowa’s nuclear power plant could supply one percent more electricity and avoid annual emissions of 10 tons of SO₂, 6 tons of NO_x and 4,200 metric tons of CO₂.

This fact sheet is also available at www.nei.org, where it is updated periodically.