

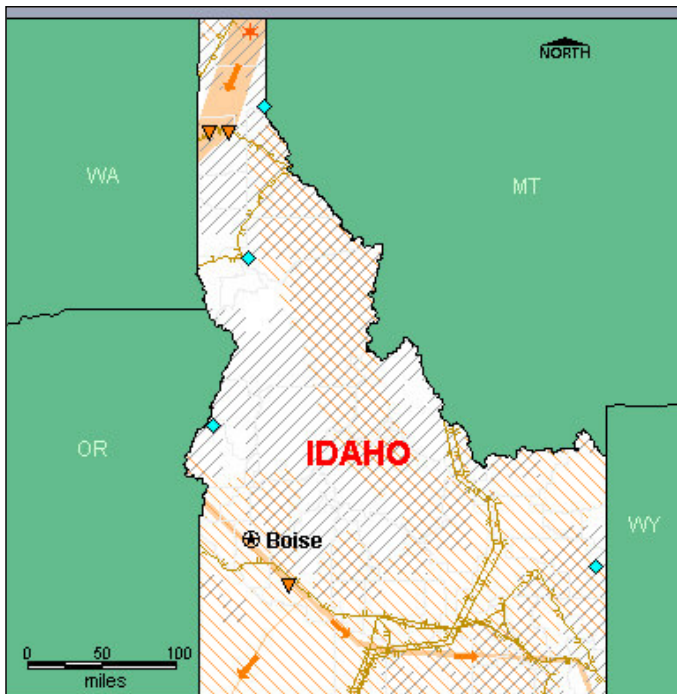
Idaho STATE ENERGY PROFILES

[Map & Facts](#) [Overview](#) [Data](#) [Related Reports](#) [References](#)

Select a State

Last Update: November 5, 2009
 Next Update: November 19, 2009

[Print Full Report](#)



Idaho Quick Facts

- Hydroelectric power plants supply roughly four-fifths of Idaho's electricity generation.
- The Hells Canyon Complex on the Snake River is the largest privately owned hydroelectric power complex in the Nation.
- In March 2006, Idaho established a 2-year moratorium on licensing or processing proposals for new coal-fired power plants; all subsequent proposals have been rejected.
- Idaho is one of the few States that uses conventional motor gasoline statewide.

Energy Information Administration

Mouse over symbols for more details.

<ul style="list-style-type: none"> Electricity Transmission Line (>= 345 kV) Oil Seaport Petroleum Refinery Coal Mine, Surface Coal Mine, Underground Natural Gas Flow Natural Gas Hub Oil and Gas Active Leases 	<p>Major Electric Power Plants (>=100 MW)</p> <ul style="list-style-type: none"> Nuclear Petroleum Coal Natural Gas Geothermal Solar Hydroelectric Wind Wood 	<p>Renewable Energy Potential</p> <ul style="list-style-type: none"> Solar - (>= 6.0 kWh/m2/day) Wind - (>= 4 Power Class) Geo. - (>= 80 milliwatts/m2)
---	--	---

Overview

Resources and Consumption

Idaho is rich in renewable energy resources but has few fossil fuel reserves. The Snake River and several smaller river basins offer Idaho some of the greatest hydroelectric power resources in the Nation. Idaho's geologically active mountain areas have substantial geothermal and wind power potential. The State economy is energy-intensive, and energy-consuming industries include mining, forest products, and transportation equipment. Although Idaho's total energy consumption is low when compared with other States, the total population is also low, and, as a result, per capita energy consumption is close to the national average.

Petroleum

Idaho markets receive petroleum product supply from refineries in Montana and Utah via two petroleum product pipelines. Total petroleum consumption is low. Idaho is one of the few States that uses conventional

motor gasoline statewide. (Most States require the use of specific gasoline blends in non-attainment areas due to air-quality considerations.)

Natural Gas

The industrial and residential sectors are Idaho's largest natural gas-consuming sectors. Close to one-half of households in Idaho use natural gas as their primary energy source for home heating. Idaho is part of the transportation corridor for shipping natural gas from Canada to the West and Midwest markets via two natural gas pipeline systems. The Gas Transmission Northwest Co. pipeline system from Alberta enters the U.S. at Idaho's Kingsgate Center on the border with Canada before flowing south to California markets. The smaller Northwest Pipeline system supplies Idaho with gas from Canada via Washington State and if necessary, from Wyoming via Utah taking advantage of the pipeline's bi-directional capabilities.

Coal, Electricity, and Renewables

Hydroelectric power plants dominate Idaho electricity generation, supplying roughly four-fifths of the State's production. Natural gas-fired power plants provide over one-tenth of the State's production, while coal- and wood-fired generation and wind turbines supply the remainder. Six of Idaho's 10 largest generating facilities run on hydroelectric power. Idaho also has dozens of privately owned hydroelectric power projects, including the 450-megawatt Hells Canyon Complex on the Snake River, the largest privately owned hydroelectric power complex in the Nation. In March 2006, the Idaho State legislature passed a 2-year moratorium on licensing or processing proposals for new coal-fired power plants. Although the moratorium has since expired, all subsequent proposals for new coal-fired power plants have been rejected. A nuclear plant has been proposed in Elmore County, just south of Boise, that would be the State's first commercial nuclear plant and would power all of Idaho, as well as provide an opportunity to sell electricity to other states. Several high voltage transmission lines connect Idaho to other western power grids, enabling large interstate electricity transfers, and Idaho currently purchases large amounts of electricity from neighboring States to meet demand. About one-third of Idaho households use electricity as their primary energy source for home heating.

Data

Economy

Population and Employment	Idaho	U.S. Rank	Period
Population	1.5 million	39	2008
Civilian Labor Force	0.8 million	38	Sep-09
Per Capita Personal Income	\$31,197	45	2007
Industry	Idaho	U.S. Rank	Period
Gross Domestic Product by State	\$52.7 billion	43	2008
Land in Farms	11.5 million acres	24	2007
Market Value of Agricultural Products Sold	\$5.7 billion	23	2007

Prices

Petroleum	Idaho	U.S. Avg.	Period
Domestic Crude Oil First Purchase	—	\$65.28/barrel	Aug-09
No. 2 Heating Oil, Residential	\$2.16/gal	\$2.37/gal	Aug-09 
Regular Motor Gasoline Sold Through Retail Outlets (Excluding Taxes)	\$2.17/gal	\$2.12/gal	Aug-09 
State Tax Rate on Motor Gasoline (other taxes may apply)	\$0.25/gal	\$0.22/gal	Aug-08
No. 2 Diesel Fuel Sold Through Retail Outlets (Excluding Taxes)	\$2.15/gal	\$2.12/gal	Aug-09 
State Tax Rate on On-Highway Diesel (other taxes may apply)	\$0.25/gal	\$0.22/gal	Aug-08
Natural Gas	Idaho	U.S. Avg.	Period
Wellhead	—	\$6.37/thousand cu ft	2007
City Gate	\$3.79/thousand cu ft	\$5.59/thousand cu ft	Aug-09
Residential	\$12.34/thousand cu ft	\$15.15/thousand cu ft	Aug-09 
Coal	Idaho	U.S. Avg.	Period
Average Open Market Sales Price	—	\$32.06/short ton	2008

Delivered to Electric Power Sector	—	\$ 2.22 /million Btu	Jul-09
Electricity	Idaho	U.S. Avg.	Period
Residential	8.44 cents/kWh	11.96 cents/kWh	Jul-09
Commercial	6.92 cents/kWh	10.72 cents/kWh	Jul-09
Industrial	6.22 cents/kWh	7.12 cents/kWh	Jul-09

➔ *See more Price data for all States*

Reserves & Supply

Reserves	Idaho	Share of U.S.	Period
Crude Oil	—	—	2008
Dry Natural Gas	—	—	2008
Natural Gas Liquids	—	—	2008
Recoverable Coal at Producing Mines	—	—	2008

Rotary Rigs & Wells	Idaho	Share of U.S.	Period
Rotary Rigs in Operation	0	0.0%	2008
Crude Oil Producing Wells	0	0.0%	2008
Natural Gas Producing Wells	—	—	2007

Production	Idaho	Share of U.S.	Period
Total Energy	119 trillion Btu	0.2%	2007
Crude Oil	—	—	Jun-09
Natural Gas - Marketed	—	—	2007
Coal	—	—	2008

Capacity	Idaho	Share of U.S.	Period
Crude Oil Refinery Capacity (as of Jan. 1)	—	—	2009
Electric Power Industry Net Summer Capability	3,196 MW	0.3%	2007

Net Electricity Generation	Idaho	Share of U.S.	Period
Total Net Electricity Generation	1,469 thousand MWh	0.4%	Jul-09
Petroleum-Fired	NM	NA	Jul-09
Natural Gas-Fired	165 thousand MWh	0.2%	Jul-09
Coal-Fired	NM	NA	Jul-09
Nuclear	—	—	Jul-09
Hydroelectric	1,245 thousand MWh	5.4%	Jul-09
Other Renewables	53 thousand MWh	0.5%	Jul-09

Stocks	Idaho	Share of U.S.	Period
Motor Gasoline (Excludes Pipelines)	358 thousand barrels	0.7%	Aug-09
Distillate Fuel Oil (Excludes Pipelines)	279 thousand barrels	0.2%	Aug-09
Natural Gas in Underground Storage	—	—	Aug-09
Petroleum Stocks at Electric Power Producers	W	W	Jul-09
Coal Stocks at Electric Power Producers	W	W	Jul-09

Production Facilities	Idaho		
Major Coal Mines	None		
Petroleum Refineries	None		
Major Non-Nuclear Electricity Generating Plants	Brownlee (Idaho Power Co) • Dworshak (USCE-North Pacific Division) • Cabinet Gorge (Avista Corp) • Rathdrum Power LLC (Rathdrum Operating Services Co. • Inc.) • Palisades (U S Bureau of Reclamation)		
Nuclear Power Plants	None		

➔ *See more Reserves and Supply data for all States*


Distribution & Marketing

Distribution Centers	Idaho

Oil Seaports/Oil Import Sites	None		
Natural Gas Market Centers	Kingsgate Center (Market Hub Services)		
Major Pipelines	Idaho		
Crude Oil	None		
Petroleum Product	Chevron • Yellowstone.		
Liquefied Petroleum Gases	None		
Interstate Natural Gas Pipelines	Northwest Pipeline Corp.		
Fueling Stations	Idaho	Share of U.S.	Period
Motor Gasoline	957	0.6%	2008
Liquefied Petroleum Gases	25	1.0%	2009
Compressed Natural Gas	7	0.9%	2009
Ethanol	5	0.3%	2009
Other Alternative Fuels	13	1.1%	2009

➔ *See more Distribution and Marketing data for all States*


Consumption

per Capita	Idaho	U.S. Rank	Period
Total Energy	354 million Btu	22	2007 
by Source	Idaho	Share of U.S.	Period
Total Energy	530 trillion Btu	0.5%	2007
Total Petroleum	30.6 million barrels	0.4%	2007
Motor Gasoline	16.2 million barrels	0.5%	2007
Distillate Fuel	10.0 million barrels	0.7%	2007
Liquefied Petroleum Gases	1.7 million barrels	0.2%	2007
Jet Fuel	0.9 million barrels	0.2%	2007
Natural Gas	81,943 million cu ft	0.4%	2007
Coal	504 thousand short tons	0.0%	2007
by End-Use Sector	Idaho	Share of U.S.	Period
Residential	122,250 billion Btu	0.6%	2007
Commercial	83,571 billion Btu	0.5%	2007
Industrial	186,922 billion Btu	0.6%	2007
Transportation	136,905 billion Btu	0.5%	2007
for Electricity Generation	Idaho	Share of U.S.	Period
Petroleum	NM	NA	Jul-09
Natural Gas	1,298 million cu ft	0.2%	Jul-09
Coal	NM	NA	Jul-09
for Home Heating (share of households)	Idaho	U.S. Avg.	Period
Natural Gas	45%	51.2%	2000
Fuel Oil	5%	9.0%	2000
Electricity	34%	30.3%	2000
Liquefied Petroleum Gases	6%	6.5%	2000
Other/None	10%	1.8%	2000

➔ *See more Consumption data for all States*


Environment

Special Programs	Idaho		
Clean Cities Coalitions	Treasure Valley		
Alternative Fuels	Idaho	Share of U.S.	Period
Alternative-Fueled Vehicles in Use	4,029	0.6%	2007
Ethanol Plants	1	0.7%	2008
Ethanol Plant Capacity	0.0010 million gal/year	0.0%	2008
Ethanol Consumption	541 thousand barrels	0.3%	2007
Electric Power Industry Emissions	Idaho	Share of U.S.	Period

Carbon Dioxide	1,273,975 metric tons	0.1%	2007	
Sulfur Dioxide	6,722 metric tons	0.1%	2007	
Nitrogen Oxide	3,697 metric tons	0.1%	2007	

➔ **See more Environment data for all States**

— = No data reported. * = Number less than 0.5 rounded to zero. NA = Not available. NM = Not meaningful due to large relative standard error or excessive percentage change. W = Withheld to avoid disclosure of individual company data.

Click the icon  next to a data series to see State rankings for that series.

Update on November 5, 2009

New statistics for August 2009:

- Prices of crude oil, residential heating oil, motor gasoline, and diesel fuel
- Prices of city gate and residential natural gas
- Stocks of motor gasoline and distillate fuel oil
- Natural gas in underground storage

New statistics for June 2009:

- Production of crude oil

New statistics for 2008:

- Reserves of crude oil, natural gas, and natural gas liquids

New statistics for 2007:

- Total energy production

[See previous updates](#)

Sign up for State Energy Emails

Type email address here

Additional Information about State Energy Profiles

- [State Rankings](#)
- Notes & Sources:
 - [Maps](#) | [Quick Facts & Overviews](#) | [Data](#)
- [State Data Directory](#)
- [About State Energy Profiles](#)

Related Reports

- [State Energy Data System \(SEDS\)](#)
tables that display comprehensive State data from as early as 1960 to the present
- [State Electricity Profiles](#)
tables that provide time series data from 1990 forward for key electricity indicators by State
- [State Renewable Electricity Profiles](#)
tables that provide data for the most recent year on capacity and generation of electricity from renewable sources
- [State Compendium of Nuclear Power Plants](#)
State-by-State reports on the nuclear industry
- [Natural Gas Residential Choice Programs](#)
written overviews of the status of natural gas industry restructuring in each State, focusing on the residential customer class
- [Status of Electricity Restructuring by State](#)
annotated map showing details of the status of electricity restructuring in each State
- [Regional Energy Profiles](#)
reports and maps that explore regional variations in U.S. energy consumption

[Privacy/Security](#) | [Accessibility](#) | [Copyright & Reuse](#) • [Contact Us](#) | [Feedback](#) | [Careers](#) | [About EIA](#)

[Fedstats](#) | [USA.gov](#) | [Department of Energy](#)