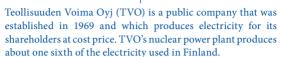


Olkiluoto, the centre of Finnish nuclear power expertise

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Teollisuuden Voima Oyj



Electricity is generated at the two Olkiluoto nuclear power plant units Olkiluoto 1 and Olkiluoto 2 (OL1 and OL2) at Eurajoki and at the Meri-Pori coal-fired power plant in Pori.

A new unit, Olkiluoto 3 (OL3), is under construction at Olkiluoto. TVO has filed in spring 2008 an application for a decision in principal to construct a fourth nuclear power plant unit at Olkiluoto, in the community of Eurajoki.

The main mission of Teollisuuden Voima Oyj (TVO) is to produce electricity for shareholders safely and economically without carbon dioxide emissions. TVO's vision is to be a world-class nuclear power company that is appreciated by Finnish society. Values of the company are responsibility, transparency, proactivity and continuous improvement.

The Olkiluoto nuclear power plant produced ca. 14.4 TWh electricity in 2008. It was about 16 per cent of all electricity used in Finland.

TVO's generating capacity consists of the Olkiluoto nuclear power plant units Olkiluoto 1 and Olkiluoto 2 with an electrical output of 860 MW each and the 257 MW share in the Meri-Pori coal-fired power plant.

Company shareholders and holdings Dec. 31, 2008

Holding %				
	A-series	B-series	C-series	
Etelä-Pohjanmaan Voima Oy	6.5	6.6	6.5	6.6
Fortum Power and Heat Oy	26.6	25.0	26.6	26.0
Karhu Voima Oy	0.1	0.1	0.1	0.1
Kemira Oyj	1.9	-	1.9	1.1
Oy Mankala Ab	8.1	8.1	8.1	8.1
Pohjolan Voima Oy	56.8	60.2	56.8	58.1

The A series shares entitle the shareholders to the electricity generated by the current plant units, the B series shares to the electricity by the new plant unit OL3, and the C series shares to the electricity generated by the Meri-Pori coal-fired power plant.

to the electi plant.	ricity generated by the Meri-Pori coal-fired power
Teollisuu	ıden Voima Oyj's important dates
23.1.1969	Teollisuuden Voima Oy was founded by 16 companies.
21.12.1972	The Ministry of Trade and Industry gave principle approval for building a nuclear power plant.
31.5.1973	The Parliament approved TVO's proposal of acquisition of an area at Olkiluoto.
31.1.1974	The Ministry of Trade and Industry granted construction license for Olkiluoto 1 (OL1) in accordance with the Atomic Energy Act.
1.2.1974	Construction of OL1 unit was started.
12.8.1974	OL1's foundation stone was laid.
4.8.1975	The Ministry of Trade and Industry granted construction license for Olkiluoto 2 (OL2) in accordance with the Atomic Energy Act.
28.8.1975	Construction of OL2 unit was started.
6.7.1978	The Council of State granted an operation licence for OL1.
2.9.1978	OL1 was connected to the national grid for the first time. The power plant unit achieved full capacity for the first time in January 8, 1979.
1.9.1979	The Council of State granted an operation licence for OL2.
10.10.1979	OL1 was introduced into commercial operation.
18.2.1980	OL2 was connected to the national grid for the first time. The power plant unit achieved full capacity for the first time in November 11, 1980.

Teollisuuden Voima Oyj's important dates

1.7.1982 OL2 was introduced into commercial operation. The Council of State granted permission for 17.5.1984 increased power level for both power plant 29.9.1987 Spent fuel was transferred for the first time from the plant to the Interim Storage Facility for Spent Fuel (KPA-Store). Agreement on the participation with a 45 per 29.3.1988 cent share in the Meri-Pori coal-fired power plant project was signed. 15.12.1988 The Council of State granted under the Nuclear Energy Act an operation licence for 10 years for both power plant units. Total production of Olkiluoto nuclear power 29.9.1989 plant reached 100 TWh. 16.3.1990 Training simulator was taken into use at Olkiluoto. The first waste transfer to the low and 8.5.1992 medium-level nuclear waste repository (VLJ) was made. 30.12.1992 Olkiluoto, Konginkangas and Kuhmo were chosen for more detailed site investigations for final disposal site for spent nuclear fuel. Meri-Pori coal-fired power plant produced 26.9.1993 electricity to the national grid for the first time. Posiva Ov began its activities. 1.1.1996 Total production of Olkiluoto nuclear power 11.3.1998 plant reached 200 TWh. The Council of State granted a new operation 20.8.1998 licence for both power plant units and the KPA-Store as well as for the low and medium-level waste interim storages. Modernization programme of the power plant 1998 units, which lasted four years, was completed. After the modernization, the power level rised to 840 MW. It is 18.3 per cent higher than the earlier nominal power level. The environmental impact assessment report, 30.8.1999 i.e. EIA Report, of the environmental impact of a new nuclear power plant unit, which would possibly be built at Olkiluoto, was submitted to the Ministry of Trade and Industry.

Teollisuuden Voima Oyj's important dates

- 5.12.1999 A certificate based on the ISO 14001 standard was granted to the Olkiluoto nuclear power plant.
- 15.11.2000 Application for Decision in principle concerning the new nuclear power plant unit was submitted to the Council of State.
- 21.12.2000 The Council of State gave a positive Decision in principle for Posiva Oy's application for the construction of a final repository of spent nuclear fuel at Olkiluoto. Eurajoki.
- 18.5.2001 The Finnish Parliament ratified the Decision in principle made by the Council of State supporting Posiva Oy to construct a final repository for spent nuclear fuel at Olkiluoto in Eurajoki.
- 19.7.2001 The Finnish Environment Institute registered TVO in the EMAS system (Eco Management and Audit Scheme).
- 24.5.2002 The Finnish Parliament ratified the Decision in principle made 17th January 2002 by the Council of State supporting the construction of a new nuclear power plant unit either at Olkiluoto, Eurajoki or at Hästholmen, Loviisa.
- 30.9.2002 TVO submitted bid inquiries for the construction of a new nuclear power plant unit.
- **16.10.2003** Olkiluoto was chosen for the location site for the new power plant unit.
- 18.12.2003 TVO's Board of Directors decided to invest in the new nuclear power plant unit Olkiluoto 3 (OL3). The Company signed a contract for the construction of a pressurized water reactor plant unit of some 1,600 MW with the consortium comprising AREVA NP (former Framatome ANP) and Siemens.
- 16.2.2004 The excavation work at the OL3 site was started.
- **15.11.2004** TVO's wind power unit at Olkiluoto was inauqurated.
- 10.12.2004 The festive tarring of the ground of the OL3 site.
- 11.1.2005 The building permit for OL3 was granted by Eurajoki municipality.
- 17.2.2005 The Council of State granted the construction licence for the OL3.

Teollisuuden Voima Oyj's important dates

- 26.4.2005 Total electricity production of OL1 and OL2 reached 300 TWh.
- 12.8.2005 The actual construction work of OL3 began.
- 12.9.2005 The OL3 foundation stone was laid.
- 31.1.2006 Olkiluoto's new Visitor Center was inaugurated.
- 1.6.2006 Modernization programme of the Olkiluoto power plant units was completed. After the modernization the nominal power level is 860 MW.
- 18.10.2006 OL3's actual casting of concrete began.
- 31.5.2007 The environmental impact assessment programme (EIA programme) for the fourth nuclear power plant unit to be possibly built at Olkiluoto was submitted to the contact authority, the Ministry of Trade and Industry.
- 19.11.2007 The Olkiluoto 100 MW gas turbine plant jointly constructed by Fingrid Oyj and Teollisuuden Voima Oy (TVO) was inaugurated.
- 31.12.2007 TVO has been registered in the trade register as a public company as of 31 December 2007. The official name of the company is Teollisuuden Voima Ovi.
- 31.12.2007 The Olkiluoto Nuclear Power Plant reached the best production results in its operational history 14.386 TWh.
- 25.4.2008 TVO filed to the Council of State an application for a decision in principal to construct a fourth nuclear power plant unit (OL4) at Olkiluoto. Simultaneously Posiva Oy filed an application-in-principal to expand its for spent fuel for OL4.
- 2.9.2008 The anniversary of 30 years of nuclear energy production at Olkiluoto took place. During the three decades Olkiluoto has produced 350 TWh of electricity.
- 31.12.2009 The production of electricity of the Olkiluoto nuclear power plant in 2008 was the second highest in the history of the company. The total annual production of the power plant units was 14.380 TWh. The two units produce annually some sixth of the electricity consumed in Finland.

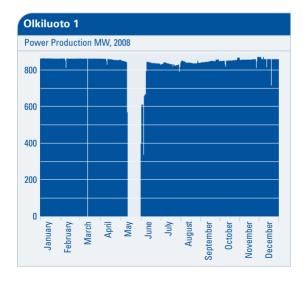
Key figures		
	2008	2007
Output of electricity		
Olkiluoto (TWh)	14.380	14.386
Olkiluoto wind power plant GWh	1.6	1.8
Olkiluoto gas turbine plant, GWh	0.5	0.2
Meri-Pori (GWh)	816.9	1,374.3
Turnover (EUR million)	257.3	232.3
Loan portfolio (EUR million)	1,959.5	1,362.3
Investments (EUR million)	588.9	227.2
Funds in the State Nuclear Waste Management Fund (TVO share, EUR million)	1,001.2	927.7
Personnel, December 31	709	676

Production and turnover in 1998-2008				
Year	Producti	Production, GWh		
	OL1	OL2	Total	EUR million
1998	6,806	6,629	13,435	257
1999	7,112	7,091	14,203	228
2000	7,043	7,029	14,072	229
2001	7,164	6,988	14,152	219
2002	6,989	7,099	14,088	218
2003	7,118	7,018	14,136	223
2004	7,001	7,072	14,073	217
2005	7,208	6,984	14,192	199
2006	6,956	7,278	14,234	227
2007	7,335	7,051	14,386	232
2008	7,066	7,313	14,380	257

The Olkiluoto Power Plant

The nuclear power plant of Teollisuuden Voima Oyj is located at Olkiluoto, Eurajoki, on the west coast of Finland. The site consists of two nuclear power plant units, Olkiluoto 1 (OL1) and Olkiluoto 2 (OL2). The plant units were delivered by the Swedish AB ASEA-ATOM (nowadays Westinghouse Electric Company).

The third unit, Olkiluoto 3 (OL3), is under construction. It is supplied by consortium AREVA NP (former Framatome ANP) / Siemens.

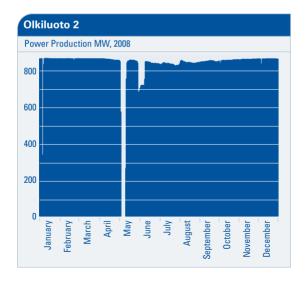


Electrical output of Olkiluoto 1 and Olkiluoto 2 in 2008

Olkiluoto 1 unit produced 7,066 GWh of electricity and the capacity factor was 93.7 per cent.

Olkiluoto 2 produced 7,314 GWh of electricity and the capacity factor was 96.9 per cent.

Total production of Olkiluoto nuclear power plant reached 100 TWh on 29.9.1989. Production of 200 TWh was reached on 19.3.1998 and 300 TWh on 26.4.2005. At the end of the year 2008 power plant's total production was 351 TWh.



Year	Duration,	Duration, days Costs, OL1 +	
	OL1	OL2	EUR million
1998	15	19	27
1999	8	10	9
2000	14	14	18
2001	8	15	13
2002	13	8	15
2003	10	14	15
2004	16	9	14
2005	7	21	15
2006	22	8	15
2007	9	17	12
2008	20	8	14

■ 0L1 ■ 0L2

Technical data of Olkiluoto NPP*

Electric output, net	860 MW
Reactor thermal power	2,500 MW
Number of fuel assemblies	500
Total fuel amount	86-90 tU
Average power density	24-25 kW/kgU
Number of control rods	121

Reactor pressure vessel

- inner diameter	5,540 mm
- inner height	20,593 mm
Reactor pressure	70 bar
Steam flow	1,260 kg/s
Turbine rated speed	3,000 rpm

Generator, water cooled

OL1	950 MVA
OL2	905 MVA
Cooling water flow	30 m ³ /s

Volume of plant buildings

OL1	483,000 m ³
OL2	475,000 m ³

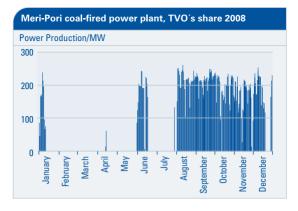
Containment

- design pressure	4.7 bar
- gas volume	7,375 m ³
- water volume	2.700 m ³

^{*} The figures are the same for both plant units, except for those separately defined.

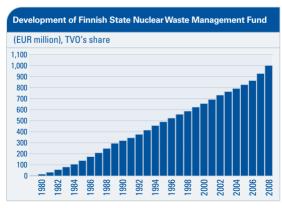
Key figures of Olkiluoto 3

about 1,600 MWe
4,300 MW
over 37%
ca. 13 TWh
154 bar
128 tU
ca. 32 t
950,000 m ³
13 m
63 m



Nuclear Waste Management

In order to cover the costs of nuclear waste management, the Company funds the Finnish State Nuclear Waste Management Fund. The Ministry of Employment and Economy confirmed the Company's end-of-year liability for nuclear waste management at EUR 1,137.6 million and the company target reserve in the State Nuclear Waste Management Fund at EUR 1,001.2 million. Difference is covered with insurance.

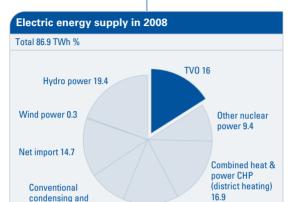


Nuclear power plants in the world in 2008

Country		units ration	Plant units under construction		
	Number	MW (net) total	Number	MW (net) total	
Argentina	2	935	1	692	
Armenia	1	376	0	0	
Belgium	7	5,824	0	0	
Brazil	2	1,795	0	0	
Bulgaria	2	1,906	2	1,906	
Canada	18	12,621	0	0	
Czech Republic	6	3,619	0	0	
Finland	4	2,696	1	1,600	
France	59	63,260	1	1,600	
Germany	17	20,470	0	0	
Great Britain	19	10,222	0	0	
Hungary	4	1,829	0	0	
India	17	3,782	6	2,910	
Iran	0	0	1	915	
Japan	55	47,587	2	2,191	
Lithuania	1	1,185	0	0	
Mexico	2	1,300	0	0	
P. R. China	11	8,438	11	10,120	
Pakistan	2	425	1	300	
Romania	2	1,300	0	0	
Russian Federation	31	21,743	8	5,809	
Slovak Republic	4	1,688	0	0	
Slovenia	1	666	0	0	
South Africa	2	1,800	0	0	
South Korea	20	17,466	5	5,180	
Spain	8	7,450	0	0	
Sweden	10	8,995	0	0	
Switzerland	5	3,220	0	0	
The Netherlands	1	482	0	0	
Ukraine	15	13,107	2	1,900	
USA	104	100,582	1	1,165	
Taiwan, China	6	4,921	2	2,600	
Total	438	371,690	44	38,888	

Source: www.iaea.org , January 2009

Electricity in Finland



Combined heat & power CHP Back pressure (industry) 13.9

Elect	ric ener	gy su	ipply in F	inland 199	8–2008,	GWh
Year	Hydro power	Wind power	Combined heat & power CHP (industry)	Combined heat & power CHP (district heating)	Conventional condensing	Nuclear power TV0
1998	14,777	23	11,980	13,248	6,320	13,435
1999	12,547	49	12,034	12,810	7,154	14,203
2000	14,453	77	11,740	12,718	6,709	14,072
2001	13,287	71	11,465	14,409	10,529	14,152
2002	10,623	63	12,271	14,902	12,363	14,106
2003	9,455	92	12,707	15,294	20,999	14,154
2004	14,865	120	13,019	15,144	17,193	14,090
2005	13,459	167	11,615	14,572	5,351	14,218
2006	11,313	153	13,064	14,505	17,572	14,267
2007	13,991	188	12,318	14,442	14,377	14,386
2008	16,889	262	12,080	14,660	8,209	14,380

others 9.4

Electric energy supply by sources in 2008 Total 86.9 TWh % Waste fuels 0.6 Peat 6.7 Wind power 0.3 Hydro power 19.4 Natural gas 12.5 Net import 14.7 Coal 9.8

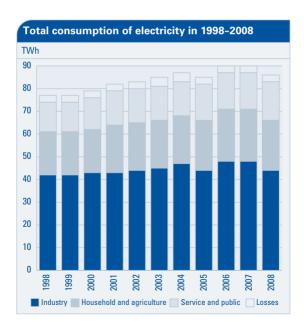
Oil 0.4

Nuclear power Fortum	Production	+ Net import	- Net export	Total	
7,541	67,304	9,582	276	76,610	
7,864	66,662	11,356	232	77,786	
7,503	67,308	12,206	326	79,188	
7,727	71,645	9,959	1,810	81,604	
7,337	71,617	13,464	1,539	83,542	
7,676	80,377	11,882	7,030	85,229	
7,724	82,155	11,667	6,797	87,025	
8,115	67,497	17,014	933	84,511	
7,737	78,624	11,401	2,716	89,991	
8,115	77,817	12,557	2,862	90,374	
7,658	74,137	12,768	3,336	86,905	

Total electricity consumption 2008

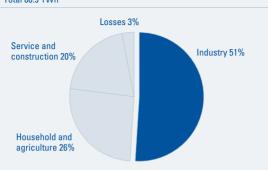
In 2008, the total electricity consumption was 86.9 TWh in Finland. Industry uses a bit over 50% of electricity consumption in Finland. Electricity is needed for instance driving processes and equipment, lightning, heating and communication. Households use electricity mainly for refrigeration devices and heating.

Nuclear energy is, like renewable energy sources hydropower, wood and wind a way to produce electricity with no carbon dioxide emissions, which boost greenhouse effect. Nuclear power is a very competitive way to produce new electricity capacity.



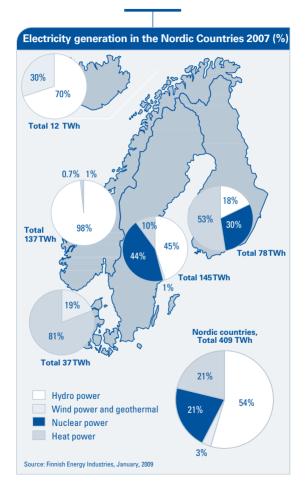
Total electricity consumption 2008







Electricity in Nordic Countries





ALARA

(As Low As Reasonably Achievable): An internationally used principle regulating the amount of radiation doses at nuclear power plants.

EPR

European Pressurized water Reactor

Euratom

A unit of the EU Commission that supervises nuclear material.

IAEA

International Atomic Energy Agency.

WANO

World Association of Nuclear Operators.

INES

(International Nuclear Event Scale): A seven-level scale used internationally to depict the seriousness of accidents and incidents at nuclear power plants. The lower levels (1-3) depict incidents that have weakened plant safety and the upper levels (4-7) accidents that could cause emissions into the environment that require protective measures against radiation.

Boiling water reactor, BWR

A light-water reactor in which water used as the coolant boils as it passes through the reactor core. The steam generated rotates the turbine.

Pressurized water reactor, PWR

A light-water reactor with such a high reactor pressure that water used as the coolant does not boil in the reactor. The hot water is conducted from the reactor to a steam generator in which the water in the secondary circuit evaporates and the steam is led to rotate the turbine.

Capacity factor

The capacity factor is the energy produced in a year by a power plant as a percentage of the energy it would have produced had it been operating at full capacity for the entire year.

Megawatt, MW

A unit of power. One megawatt equals to 1,000 kilowatts alias 1,000,000 watts.

Gigawatt, GW

A unit of power. One gigawatt equals to one million kilowatts.

Terawatt-hour, TWh

A unit of energy. One terawatt-hour equals to one billion kilowatt hours.





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