

## Olkiluoto Units 1+2

Nuclear Power Plant



### Eurajoki, Finland

The nuclear power plant Olkiluoto began electricity generation in 1978 (Unit 1) and 1980 (Unit 2) respectively with an output of 660 MW. The present net output of the plant units is 860 MW. This output increase, and its outstanding availability of 96 % which is significantly above the worldwide average of about 80 %, makes this power plant count among one of the most important electricity suppliers in Finland.

#### Customer:

Teollisuuden Voima Oy,  
Olkiluoto, Finland

#### Reactor supplier:

ASEA-ATOM AB/ABB Atom AB  
(Westinghouse Sweden AB)

#### Application:

2 x 860 MW

#### Commissioned:

Unit 1: 1978

Unit 2: 1980

### Full service ensures cost saving operation

Above all KSB's feed water pumps RHD and our condensate pumps of the type WKT conduce to this performance. KSB's performances include the supply of state-of-the-art pumps and valves featuring a high availability over long periods of time as well as on-site training of specialists. Our high quality standards, which are part of our company philosophy and leave no room for compromise, satisfy the most demanding safety requirements and significantly cut down on life cycle costs (LCC). More than 175 KSB pumps of various type series and about 375 valves fulfilling different tasks satisfy the most stringent requirements. KSB has taken care of service right from the start – from installation, commissioning, and instructing of the customer's personnel right through to today's regular maintenance inspections of the pumps and valves. This ensures extremely cost-saving operation combined with maximum availability and efficiency.





## Olkiluoto Units 1+2 – Scope of supply and project details

### Pumps:

- 8 x feed water pump RHD
  - Capacity: 420 kg/s
  - Head: 758 m
  - Temperature: 127 °C
  - Pressure: 150 bar
- 12 x condensate extracting pump WKT
- 156 pumps of type RPH/RPK, CPK, WL, HPH/HPK and Eta

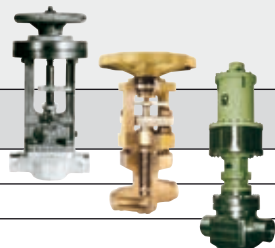


### Valves:

- 50 HP gate valves (DN 80–400)
- 30 HP check valves (DN 50–400)
- 50 LP globe valves (DN 80–200)
- 150 NUCA globe valves (DN 15–50)
- 100 diaphragm valves (DN 25–50) with manual and electric actuators

Pumps:		Capacity	Head	Temperature	Pressure	Speed
WKT	condensate extracting pump	252 kg/s	350 m	+100 °C	5.5 bar	1496 rpm

Valves		DN	Temperature	Pressure
MXN	diaphragm valves	25	100 °C	12 bar
NUCA	globe valves	25	350 °C	172 bar
ZTN	gate valves	50 - 700	400 °C	320 bar



### Should you need more information, please do not hesitate to contact us:

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