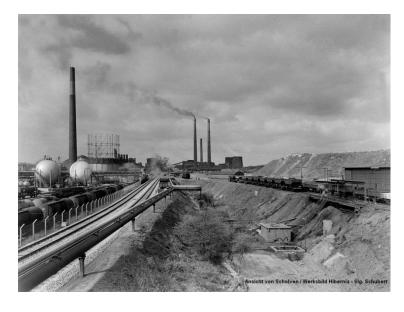


Power Plant Group West 1 - Scholven

Status date: 28.11.2017

A long tradition of energy generation Scholven since 1908





Sinking of the coal mine pit Scholven

Increasing the output to 160 MW and supply of the nearby chemical industry with power and steam

Post World War II reconstruction is largely completed

July 1908

until 1930

1948-1951

1912

1944/1945

A 240 KW turbo generator is commissioned to supply Scholven pit with auxiliary power

Numerous bomb raids cause severe damage to the power plant



Scholven – site history





Commissioning of units B-E (4 x 345 MW = 1.380 MW coal)

Commissioning of units G+H (2 x 714 MW oil)

New district heating unit Buer (138 MWeq) (installed capacity in total now 3,622 MW)

1968-1971

1974/1975

1985

1970

Hibernia AG changes to VEBA Kraftwerke Ruhr AG

1979

Commissioning of unit F (676 MW coal)



Scholven – site history





VEBA Kraftwerke Ruhr AG Complete dismantling of becomes PreussenElektra, units G and H later E.ON

Installed capacity: 828 MW, production of steam and compressed air to surrounding industry

1998-2000

2010

from 01.01.2015

2001/2003

31.12.2014

2016

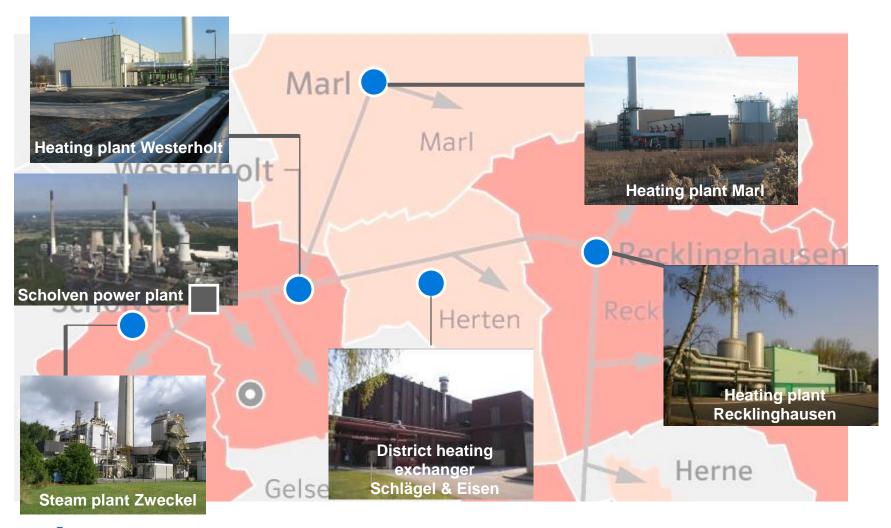
Shutdown of units G and H

Shutdown units D, E and F

E-ON Kraftwerke GmbH changes to UNIPER



Power Plant Group West 1 today



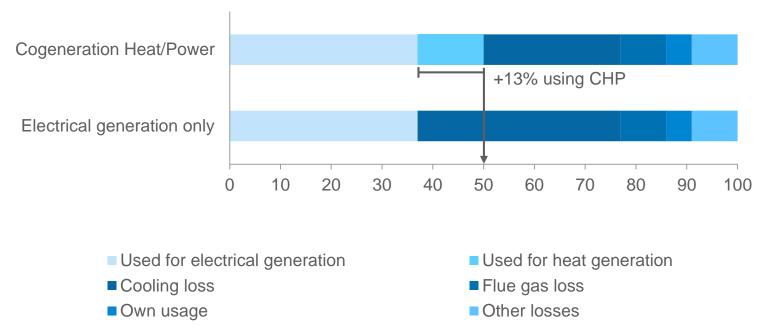


Scholven supplies a large interconnected district heating network...





Scholven makes the most out of coal: cost effective and environmental friendly cogeneration of heat and power



- Scholven power plant generates heat for more than 100,000 regional households.
- Neighbouring industries are supplied with electrical energy, steam and process heat.
- Buer CHP-plant is optimized for heat production. Result: fuel efficiency of more than 90%.
- Together with the district heat generation of units B und C the usage auf coal is 50% in relation to the plant as a whole. This is much better compared to electrical generation only.



Functional diagram of a coal fired power plant

