

# Bay Shore Plant



The 571-acre plant site is situated on Maumee Bay, six miles east of Toledo in Oregon, Ohio.

## Facts At A Glance

- Three coal-fired units and one oil-fired unit produce 648 megawatts of electricity.
- A fluidized-bed combustion boiler was the largest petroleum coke-fired boiler in the world at the time it came online in 2000. FirstEnergy and British Petroleum (BP) collaborated on the project. BP revamped its Toledo refinery and the resultant 1,400 tons of coke per day – a byproduct from the refining process – fuels the boiler.
- The plant burns more than 1.6 million tons of coal each year. The fluidized-bed boiler burns 350,000 tons of petroleum coke per year.
- The plant employs 202 people.
- The plant pays more than \$1.98 million annually in property taxes.

## ENVIRONMENTAL MEASURES

- The plant burns very low-sulfur western coal.
- Generating units use electrostatic precipitators, which remove more than 99% of particulates from flue gas. The gases pass between fields of electrically grounded plates to which the electrically charged dust is attracted.
- Coal ash captured by precipitators is either sold for a variety of uses including the manufacture of concrete, structural fill, roofing shingles and ice-control material, or is placed in specially designed landfills.
- Petroleum coke created at the BP plant is mixed with limestone in a low-temperature combustion chamber to remove 90% of the sulfur from the flue gas. The low combustion temperature and limestone also remove nitrogen oxides.
- As a result of the joint project with BP, annual emissions from both power plant and refinery have been reduced by 160,000 tons of carbon dioxide, 3,400 tons of nitrogen oxides and 70 tons of sulfur dioxide.

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