

BP Paulsboro, New Jersey



System Stats

Application Type: EnergyMax™ Ground System

Location: Paulsboro, NJ

Project completion: November 2002

Project size: 276 kilowatts (peak)

Electricity production: 350,000 kilowatt hours per year

Project description

BP has been completing environmental assessment and remediation activities since the 1980s and presently operates an extensive groundwater pumping system and a soil vapor extraction system. Closed since 1996, the site is currently being evaluated for potential redevelopment for industrial/ commercial use.

The solar power plant is installed on a gypsum landfill that could not otherwise be used for redevelopment. It will produce a projected 350,000 kWh per year and provide about 30% of the electricity needed to power remediation pumps at the site. The solar plant will serve as a showcase gateway to the site, with eventual plans for a visitor's center/educational display, and park.

Why solar was selected

Brownfields are sites with a long history of industrial use that have become inactive or abandoned. Frequently, the environmental challenges of these sites limit the opportunities for redevelopment and returning the property to a productive use that would contribute to the local economy. BP provides stewardship for brownfields, forming alliances with local communities to return economic benefits associated with property re-use while completing necessary environmental assessment and cleanup tasks.

The BP Paulsboro terminal is a former refined petroleum and specialty chemical bulk storage and distribution facility located on 130 acres in a residential and industrial area near Philadelphia



EnergyMax
Ground System

An innovative possibility for brownfield redevelopment is the construction of solar power plants at such sites, transforming brownfields into brightfields that generate clean solar electricity.

BP Global Environmental Management and BP Solar constructed the solar project at the BP terminal to showcase the potential for brownfield to brightfield redevelopment. This is one of many initiatives which showcase BP's commitment to the environment.