



What Makes The CPV Valley Energy Center One of the Most Environmentally-Sensitive Conventional Electric Generation Facilities in the World Today?



SUPERIOR GENERATION EFFICIENCY

The heart of the CPV Valley Energy Center are two F-class natural gas turbines much like those you see on the wing of a jet airliner. This turbine technology has evolved through decades of research to use the least amount of fuel to produce the most amount of electricity.



HIGH EFFICIENCY GENERATION TECHNOLOGY MEANS CLEANER AIR FOR NEW YORK

By harnessing heat from the exhaust of these highly efficient gas turbines to make steam for additional electricity production, the plant efficiency of the CPV Valley Energy Center is more than double that of older coal, oil and combustion turbine generators. This greater efficiency means less fuel and a fraction of the emissions of the older power plants currently operating today. This reduction in emissions means cleaner air for the region and New York.



PRESERVING THE PRECIOUS AQUIFER THROUGH DRY COOLING AND RECYCLED WATER

The facility's air-cooled design will utilize an annual average of approximately 21,000 gallons per day, which is only a fraction of the millions of gallons per day wet-cooled gas, coal, oil and nuclear generators require. This is roughly equivalent to the water used by 56 average homes. The small amount of water used by the CPV Valley Energy Center comes from recycled "grey" water from the Middletown water treatment facility and not from the precious aquifer.



PROTECTING THE NATURAL HABITAT

While the CPV Valley Energy Center is located on a 130-acre parcel adjacent to Route 84, the facility itself will occupy only about 30 acres. The rest of the property will remain in its natural state to preserve the natural habitat and will never be developed.

CPV Valley Energy Center
50 Braintree Hill Office | Park Suite 300
Braintree, MA 02184

www.cpvvalley.com



Thank You for Making Us A Part of Your Community!

After seven years of intensive public and regulatory review, and obtaining all the required permits, the CPV Valley Energy Center has started the two-and-a-half year construction process. As a company whose mission is to improve the environmental, economic and energy outlook in the regions where we operate, we are committed to maintaining your trust and being an active and valued community member.

Central to this relationship, is clear and open communications. In the months and years to come, we will be sharing information about this state-of-the-art electric generating facility to help you better understand how we operate. Highlighted in this mailing are some of the features that make the CPV Valley Energy Center one of the most environmentally-sensitive conventional electric generation facilities in the world today.

As always, if you ever have concerns or questions about the project, you can reach us through our public information toll-free number (877-355-7010), our public email (mail@cpvvalley.com) or the project website (www.cpvvalley.com)

Did you Know . . . ?



An entire year at the point of maximum ground-level exposure* to particulate matter (PM) from the Valley Energy Center would be equivalent to:

- 1.3 days inside a house with a traditional wood burning stove, or;
- 3.2 hours mowing the lawn with a gas-powered lawn mower.

An entire year at the point of maximum ground-level exposure* to nitrogen oxides (NO_x) from the Valley Energy Center would be equivalent to:

- 5 days in New York City

An entire year at the point of maximum ground-level exposure* to sulfur dioxide (SO₂) from the Valley Energy Center would be equivalent to:

- 13 hours or less than one day in New York City

*Concentrations at other locations would be significantly lower. In addition, the facility will produce lower emissions throughout the year than those used for these examples.

Highly efficient generation from facilities such as CPV Valley have helped reduce NY's CO₂ by 40%, SO₂ by 94%, NO_x by 81%.

The sound from the facility complies with all required codes. At the boundary of the project the maximum sound level will be roughly equivalent to a dishwasher in the next room, an air conditioner 100 feet away, or a normal conversation at a distance of 3-5 feet.

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