

# Protecting Air Quality

March 2018

# Regional Impact Significant in Local Air Quality

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- Providing the energy necessary to power our homes and business is vital:
  - New sources of energy are needed to fill an impending deficit from legacy sources going off-line
  - We are committed to building and maintaining a state-of-the-art facility that complies with or exceeds every operating standard and is one of the cleanest modern gas-powered facilities in the United States
  - Providing jobs for 1,100 workers and energy for over 1 million homes
- Air quality in Dover is affected more by regional sources than by local ones:
  - Modeling shows important local air quality benefits can be obtained by reducing the use of older, less-efficient fossil-fuel plants elsewhere in the region
  - CVEC will be the most efficient gas-powered facility in the NYS energy portfolio
  - CVEC will reduce the need to operate existing older, less efficient fossil-fuel plants, yielding environmental benefits

# Air Quality Compliance: Highly Regulated, Multiple Reviews



To be permitted, CVEC has successfully proven compliance with the following regulations:

National Ambient Air Quality Standards (NAAQS)

Nonattainment New Source Review (NNSR)

Prevention of Significant Deterioration (PSD)

New Source Review

New Source Performance Standards (NSPS)

National Emission Standards for Hazardous Air Pollutants (NESHAP)

Clean Air Interstate Rule (CAIR)

Acid Rain Program (Title IV)

New York State Additional Requirements:

Sulfur in fuels

Visible emissions

CO<sub>2</sub> Budget Trading Program

Accidental release requirements

# CVEC – Most Efficient, Cleanest Power Plant of Its Kind

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- CVEC will install state-of-the-art emissions reducing devices at its plant
  - Selective catalytic reduction
  - Oxidation catalyst
- Good Engineering Practice stack height to minimize air quality impacts
- Emissions will be monitored continuously and reported to NYS Department of Environmental Conservation (NYSDEC) to prove compliance with Air Quality Permits

# Air Quality Standards Achieved

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- It is protective of health of even the most vulnerable individuals, including those with asthma and emphysema
- Impact of non-criteria (toxic) pollutants are below health-based guidelines
- Contribution to acid rain is insignificant
- No significant or disproportionate impact to disadvantaged communities
- No significant visibility impact at closest state park/natural resource
- No significant effect on soils/vegetation

# Effects Once CVEC Is Operational

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- Annual ground level NO<sub>x</sub> levels at Dover High School will be equivalent to:
  - A two-minute car ride
  - Four minutes of cooking on a gas-fueled stove (per week)
- Annual ground level PM<sub>2.5</sub> levels at Dover High School will be equivalent to:
  - A five-minute car ride
  - Thirty minutes of cooking on a gas-fueled stove (per month)

# Local Air Quality: Real Time Monitoring and Data Sharing

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- In addition to complying with strict NYSDEC and federal emissions regulations, CVEC has installed an air quality monitoring station at Dover High School
- The purpose of this device is to provide quality, real-time emissions information at ground level in a populated area
- The data recorded by this device will be public information in order to provide complete transparency



## More Information?

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