

Connecticut Energy and Technology Committee

Informational Forum on Generators

January 31, 2019



Competitive Power Ventures

ABOUT COMPETITIVE POWER VENTURES (CPV)

- ◆ Premier North American developer, owner and manager of natural gas and renewable power generation
- ◆ A small business of ~80 employees with a main office in Braintree, MA
- ◆ Modernizing our nations power system to improve reliability, reduce costs and lower carbon emissions by working with our communities and global partners



CPV TOWANTIC COMBINED CYCLE GENERATING FACILITY

- ◆ Located in Towantic Hill Industrial Park, Oxford, CT
- ◆ Commercial operation on May 21, 2018 after a three-year construction period
- ◆ Comprised of two GE Gas and one Steam Turbine
 - ✓ *At ~64% efficient, one of the most efficient thermal power generating facilities in the world*
- ◆ Combined total output at 778 MW in summer and 845 MW in winter
 - ✓ *Enough power for over 800,000 average New England Homes*
- ◆ Air cooled facility which reduces water requirements by over 90% compared to traditional fossil power generation



CPV Towantic Operating Highlights

- ◆ Highest efficiency large fossil generating facility on the ISO New England system.
 - ✓ *Significant reductions in carbon emissions through displacement of less efficient plants*
- ◆ Extremely flexible operating range and responsiveness
 - ✓ *Provides increasingly important flexibility to ISO New England with systemwide increases in intermittent generation*
- ◆ Dual Fuel Capability for added reliability
 - ✓ *Natural gas directly sourced from Algonquin Mainline at the Oxford Compressor Station*
 - ✓ *1.5 MM Gallons of Fuel Oil as backup fuel for use when natural gas is in short supply*
- ◆ Provides reliable, flexible generation to the constrained Southwest CT load pocket
 - ✓ *\$75 million in transmission upgrades in Southwest CT directly funded by CPV Towantic*



CPV Towantic Local Benefits

- ◆ 25 full-time positions
- ◆ 900 construction jobs under Project Labor Agreement at the peak of the three-year construction period
- ◆ Long-term commitment to Oxford
 - ✓ *Long-term financial agreement provides ~ \$117 Million over 22 years and supports tax reduction, schools, and infrastructure*
 - ✓ *\$50,000 per year community support payments*
- ◆ Development of East Commerce Drive Industrial Park
 - ✓ *New access road connecting 16 level, utility-served parcels directly to the airport's Juliano Drive*



Headwinds facing the Electric Industry

- ◆ How do we balance reliability, environmental responsibility and cost effectiveness?
 - ✓ *These principles are the foundations for a modern power system*
 - ✓ *Public policy objectives should augment and inform, not supersede these principles.*
 - ✓ *The State-of-the-Art technology employed by CPV Towantic provides all of the above*
- ◆ How do we maintain a robust, competitive wholesale market?
 - ✓ *The wholesale electric industry must continue to attract private capital from investors, reward lower emitters (RGGI, Carbon Pricing), drive innovation (market signals for key attributes) and remain focused on reliability.*
 - ✓ *The investment community isn't asking for guaranteed returns, just a predictable regulatory environment.*
 - Put a price on carbon and the market will respond with renewable growth, technology innovation and consumer savings.

Questions?