





CEAC's promote and assist in transforming the market for CHP, waste heat to power, and district energy technologies and concepts throughout the United States.

## **Key services include:**

Market Assessments – Supporting analyses of CHP market potential in diverse sectors, such as, health care, industrial sites, hotels, and new commercial and institutional buildings.

Education and Outreach – Providing information on the benefits and applications of CHP to state and local policy makers, regulators, energy end-users, trade associations, and others.

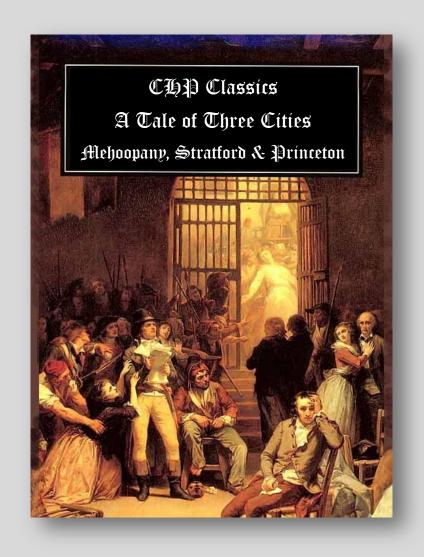
Technical Assistance – Providing technical information to energy end-users and others to help them consider if CHP, waste heat recovery or district energy makes sense for them.







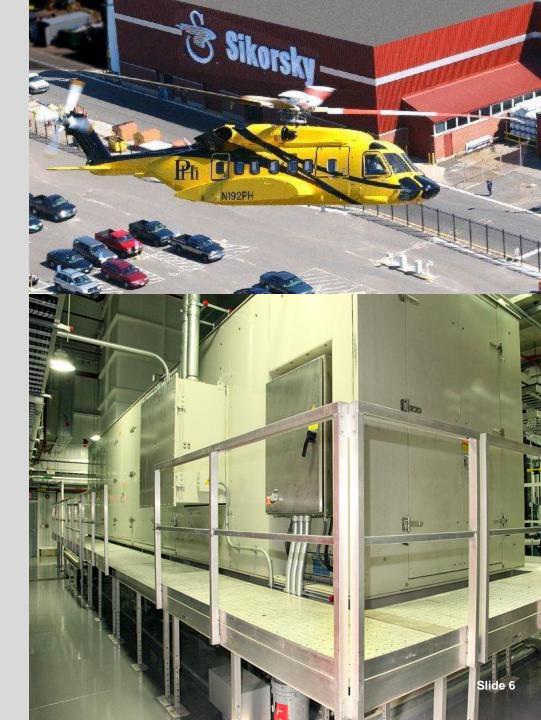






## ECONOMICS, LOWER PRODUCTION COST & ECONOMIC DEVELOPMENT

# ECONOMICS AND BUSINESS CONTINUITY



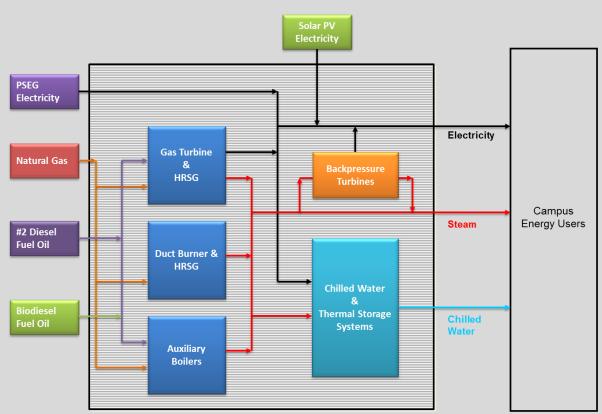
## **Princeton University**

## ECONOMICS, CARBON REDUCTION, DRIPE AND RESILIENCY

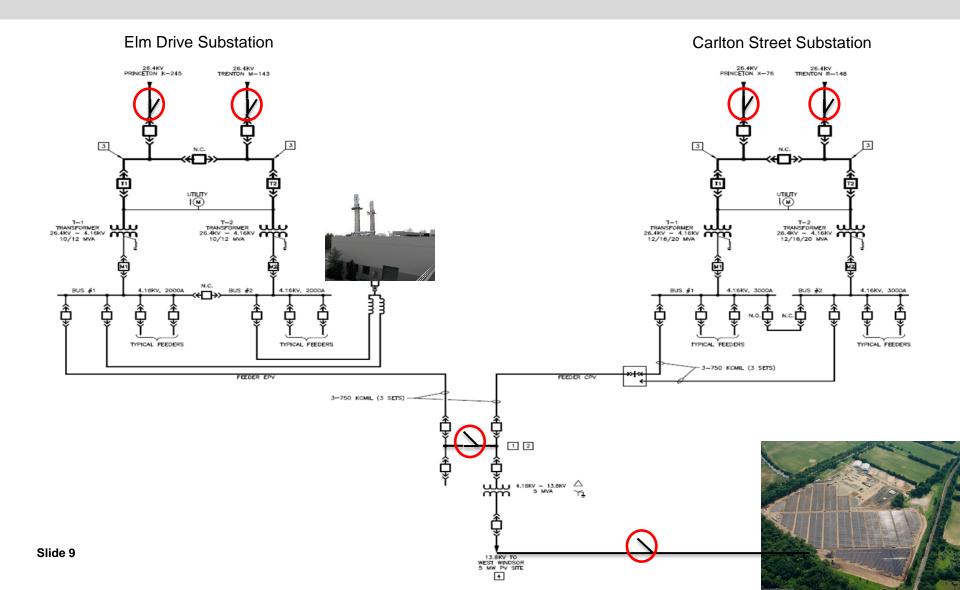




# FLEXIBILITY



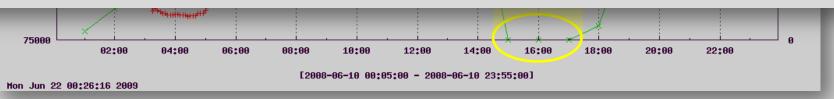
## SUPERSTORM SANDY



## DEMAND-REDUCTION-INDUCED PRICE EFFECT OR "DRIPE"



In accordance with the PJM Reliability Assurance Agreement "RAA" and PJM rules and procedures, each Local Distribution Company "LDC" will calculate a system capacity peak load contribution "ticket" for each electric account on an annual basis. After the end of a summer period, PJM will identify the five highest weather normalized PJM system coincident load hours that occurred on different days over the period from June 1 through September 30. The LDC-specific zones will identify the actual zonal loads associated with these five hours. Each LDC-specific zone will reconcile these five different hours back to the one hour weather normalized, system coincident zonal peak load obligation. The consequent peak load contributions will be calculated as an average over these five hours. Each account's peak load contributions "PLC" will be updated on a yearly basis in accordance with PJM rules and procedures. PLC is used to calculate capacity charges and Local Marginal Pricing "LMP" and therefore a reduced PLC leads to reduced LMP for all ratepayers in the specific PJM zone — aka Demand-Reduction-Induced Price Effect "DRIPE".



## CHP BENEFITS

### **For Businesses**

- Reduces energy costs for the user
- Reduces risk of electric grid disruptions and enhances energy reliability
- Provides stability in the face of uncertain electricity prices.

### For the Electric System

- Offers a low-cost approach to new electricity generation capacity
- Lessens the need for new transmission and distribution (T&D) infrastructure and enhances power grid security.

## **To Society**

- Improves U.S. manufacturing competitiveness through increased efficiencies and reduced energy costs
- Offers a low-cost approach to new electricity generation capacity
- Provides an immediate path to lower greenhouse gas (GHG) emissions, in many cases through increased energy
  efficiency
- Uses abundant, clean, domestic energy sources
- Uses highly skilled American labor and American technology.
- A place of refuge
- A place to work
- Economic continuity

## QUESTIONS



Richard S. Sweeter
Senior Advisor
Mid-Atlantic Clean Energy Application Center
12020 Meadowville Court
Herndon, Virginia 20170

TEL: 703-707-0293 FAX: 703-707-9566

Email: rsweetser@exergypartners.com

WEB: www.maceac.psu.edu