



The Cates Utility Plant CHP project was a major upgrade to an existing energy plant, using parts of the previous building and the same footprint to conserve resources and preserve open space.

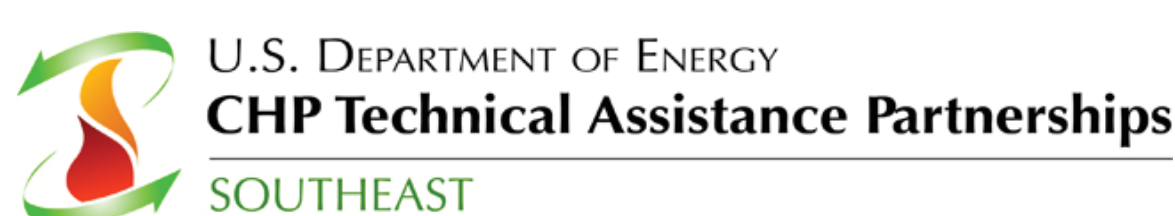
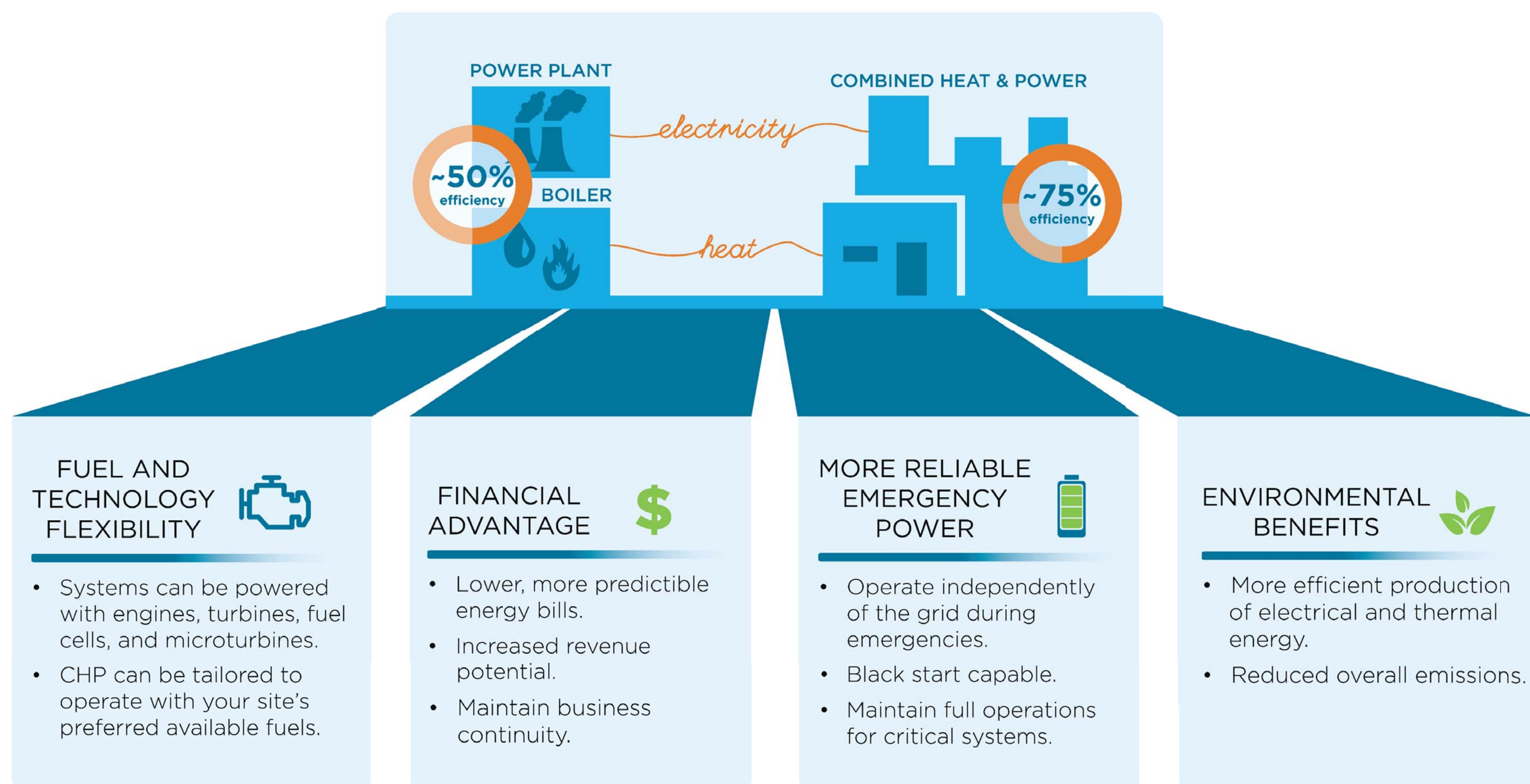
Facts on CHP at NC State University

- In Operation Since: November 2012
 - Total electric capacity: 11 MW
- Total steam output: 100,000 pounds per hour
- Fuel source: Natural gas with fuel oil backup
- CHP system cost: \$26 million of a \$60M ESPC
 - LEED™ Certification: Silver

Benefits of the Cates Utility Plant CHP System

- Improved resilience with black start capability
 - Provided a consolidated control facility
- Reduces GHG emissions by 8%, or 33,000 MTCO₂e
- Provides for student experience and industry tours
 - Savings during first two years: over \$10 million
 - Savings cover \$19 million of deferred maintenance

CHP can deliver enhanced service within your District Energy System



The NC Cleantech Center at NC State University operates the DOE Southeast CHP Technical Assistance Partnership (TAP), which is one of seven regional CHP TAPs established by the U.S. Department of Energy to promote and assist in transforming the market for CHP with direct technical assistance.

Are you considering a CHP project?

Contact your regional CHP TAP for technical assistance and expert advice to help determine if CHP is a good fit for your site, technically and financially.

