CHP Implementation
Benefits and Challenges

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KEY ISSUES

- Plant Retirements
- Aging Infrastructure
- Transmission Congestion

*System Stress*
Decentralized Energy

Key Benefits

- No additional T&D required
- Leverages smart meter deployment
- Efficiency Improvements

Less System Stress
Decentralized Energy

Economic Potential

85
PA and OH Customers

10 - 20%
Capacity Reductions

$3M - $6M
Capacity Savings

Bike Image Source: Creative Commons Keithonearth
Demand Response
Renewables
CHP

SUCCESS FACTORS

↑ Real Issues
↑ Tangible Benefits
Access to fuel
Project Capital
Lower Barriers
Customer Adoption

CUSTOMER

Bike Image Source: Creative Commons Keithonearth
Decentralized Energy - CHP

SUCCESS FACTORS

- Real Issues
- Tangible Benefits
- Access to fuel
- Project Capital
- Lower Barriers
- Customer Adoption

SOURCE: USGS
Despite these benefits, independent studies have pointed to under-investment in industrial energy efficiency and CHP as a result of numerous barriers.

Project capital is available but on the side lines awaiting the removal of barriers.

SOURCE: Whitehouse.gov
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SUCCESS FACTORS

- Real Issues
- Tangible Benefits
- Access to fuel
- Project Capital
- Lower Barriers
- Customer Adoption

- Interconnection issues
- Utility upside opportunities
- Regulatory certainty
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SUCCESS FACTORS

- Real Issues
- Tangible Benefits
- Access to fuel
- Project Capital
- Lower Barriers
- Customer Adoption

CUSTOMER NEEDS

- True Economics
- Holistic Solution