Phoenix Contact – North American Headquarters - Harrisburg, PA
Comprised of 360,000 SF of Manufacturing, Production, Distribution and Engineering

Expansion Project - 120,000 SF – 3 Story Production and Office Tower - Completed Spring 2014

Energy Plant Requirements

• Replace Old Chillers in Poor State of Repair
• Provide for Additional Heating and Cooling Needs
• Address Additional Electrical Demand and Consumption
• Use a Low Emission Clean Energy System
• Must Offer Power System Backup Capabilities

Experience thru June 2013
Solution Selected – CCHP Tri-generation:
Capstone – Natural Gas Driven Micro-turbine System
  1 Megawatt of Power
  300 Tons of Cooling
  5000MBH of Heating

Study Considerations:
Utility Electricity Cost
Installed System Cost
Grants, Incentives and Rebates
System Efficiency
Backup Power

Utility Natural Gas Cost
Maintenance and Warranty Costs
Energy Modeling
Low Emissions
Support PA Jobs – Natural Resource Fuel

Experience thru June 2013
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Project CCHP Financial Breakdown:
- CCHP Total Cost = $2.83 Million
- Grant = $975,000
- MACRS – Accelerated Depreciation
- 10% Energy Investment Tax Credit
- Payback = 5.98 Years (Includes Maintenance, Warranty, FPP and Parasitic Loads)

ACT 129 Program – June 2013 - Phoenix Contact’s Project did not meet TRC Minimum Values
- Submitted via PPL’s E-Power Custom Incentives Program
  - Phase 1 – PPL/ACT 129 – Min TRC Requirement = 1.0 – Max Incentive = $500,000
    - CHP Systems Credited at $.10/kwhr
  - Phase 2 – PPL/ACT 129 – Min TRC Requirement = 1.2 – Max Incentive = $250,000
    - CHP Systems Credited at $.05/Kwhr
    - Other Systems Credited at $.08/Kwhr

TRC Did Not:
- Recognize State Grant Funding Offset
- Recognize Environmental Emissions Offset
- Recognize Grid Load Offset and Associated Generation, Transmission and Distribution Offset
- Allow for Backout of Project Costs if Customer adds Modular Units for Backup Power Capacity

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