

Sam Bridwell

Mechanical Option

Dr. Jim Freihaut

Thesis Presentation Outline

- Introduction (1slide)
- Project Overview (2 Slides)
 - Project background
 - Building statistics
- Proposal (2 Slides)
 - Conclusions drawn from fall analyses
 - Proposal elements
- CHP Plant implementation Depth
 - Utility data collection and analysis (2 Slides)
 - Trends
 - Predictions based on further expansion
 - DOE CHP selection Process (1 Slide)
 - Assumptions
 - Subjective criteria as well as objective
 - Iterations chosen for analysis (1 Slide)
 - Advantages/disadvantages
 - Financial feasibility of each iteration (4 Slides)
 - Energy use
 - Equipment and labor cost
 - Payback period
 - Sensitivity study for future utility price fluctuations
 - Carbon footprint of each iteration (1 Slide)
 - Non-quantifiables (1 Slide)
 - Resizing of basement
 - Operability
- Power interconnect and Black start capability breadth
 - Power interconnect (1 Slide)
 - Design
 - Black start capability (2 Slides)
 - Equipment needed
 - Add to price of chosen chp config
- Alternative project delivery method (3 Slides)
 - Background on AIA ruling and project issues
 - Research results
 - Financial analysis- o&p vs delay and litigation cost
- Final Recommendations (1 Slide)
- Conclusion/acknowledgements (1 Slide)

Total: 23 slides