The Research and Economic Development Center

Erie, Pa



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Summary Book	

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Conclusion

I hope that you have enjoyed your trip through my building and my research. Hopefully you have learned a great deal about the various building systems. By recommending the changes that I have, the building will run smoother and be more useful for the building's occupants. This research is also not completed. For every topic one must pick a logical place to stop but more can always be done and each topic could be expanded. The next section recommends ways to continue on with this research.

Continuing Research

If one were to desire to continue any of the research that has begun during this thesis, here are some suggestions of where to go.

WBE/MBE Solicitation

- Continue on with the survey and attempt to get a broader range of respondents.
- Interview DGS and find out why they have this program.
- Do a more in-depth research of what state have a similar program and find out what if any problems they have encountered. Also find out if any states have banned the program and why.
- Talk to owners for DGS projects and explain what the impact of the solicitation is.

Cladding Analysis

- Find out why the specified cladding is having difficulties and what it would take to fix it.
- Look for other materials to redesign the building with.

Skylight Analysis

- What would a different skylight do?
- Could there be an artistic way to leave it in and not have it be noticeable?
- What happens if the building is built as specified and they want to change it later?

Windmill Analysis

- Go more in-depth with the electrical analysis.
- Would other types of windmills make a difference? Different Heights?
- Find out what it would take to make a wind farm on PSU Erie Campus to power the campus.
- See about having the power go directly to the hot water or some other full time power load.

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Citations/Sources

DGS - http://www.dgs.state.pa.us/bcabd/site/default.asp. All information regarding WBE/MBE policies RS Means – Square Foot Estimate, All schedule and cost related information.

Research and Economic Development Center Bid Documents by Weber Murphy and Fox- All building and building system information.

http://www.bitterrootsolar.com/wind.htm - All windmill and tower prices and specifications.

<u>http://windenergy.com/AIR_X_Land_Owners_Manual.pdf</u> - All information related to the electrical installation of the windmill and figures 2 and 3 from the windmill analysis.

Engineering Economic Analysis by Michael R. Lindeburg, 2001. – All interest tables and current value analysis information

PA Clean Energy Expo Vendors – Information on how to hook a battery bank into the main power supply system.

http://www.awea.org/faq/windpower.html - Wind turbine power equation.

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