



Climate Change: Solutions for Reducing your Carbon Footprint

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COMMITMENT & INTEGRITY DRIVE RESULTS

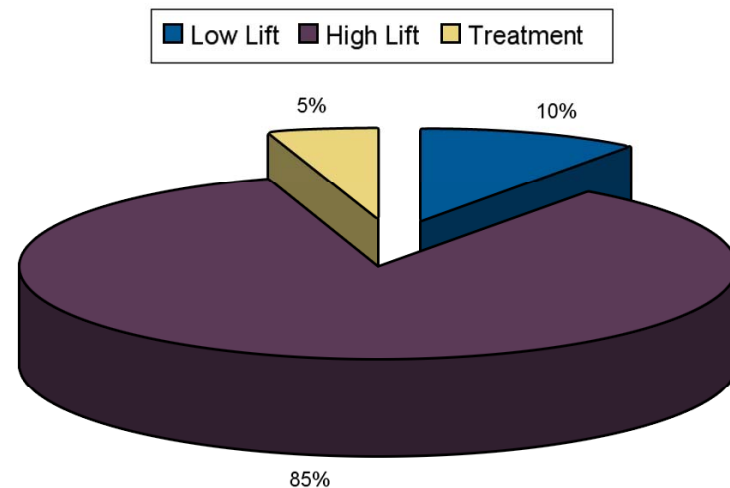
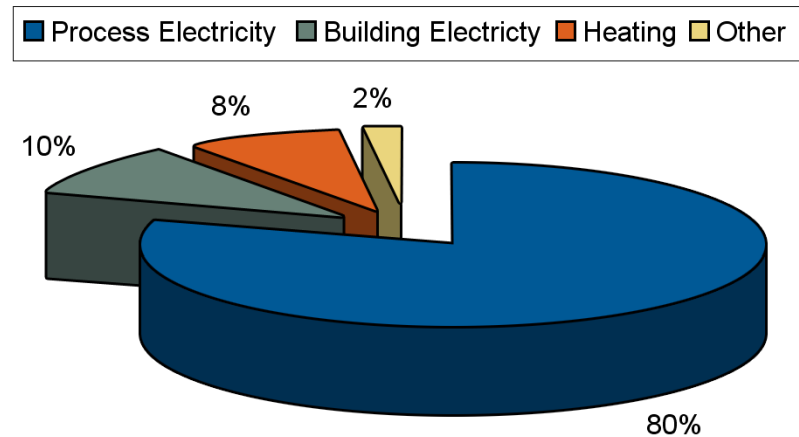
“Every generation faces a challenge. In the 1930s, it was the creation of Social Security. In the 1960s, it was putting a man on the moon. In the 1980s, it was ending the Cold War. Our generation's challenge will be addressing global climate change while sustaining a growing global economy.”

-Eileen Claussen,
President of the Pew Center on
Global Climate Change; 2001



How can we Drive Results

- Know where you are now
 - Clearly define goals and objectives
 - How can you get *there* from *here*?
- Understand how your entire system operates
 - Focusing on one piece of equipment is the wrong approach
- Understand where to focus resources
 - Prioritize opportunities with the big picture in mind



Solutions: System Upgrade & Optimization

- Updated equipment and controls
 - Lighting systems, motors, chillers, boilers etc.
 - Match supply to load as closely as possible
 - Install sub-metering
- Search for alternatives
 - Small scale wind, fuel cells, geothermal
 - Be creative and search for funding
- Energy recovery
 - Excess thermal energy can be used for space heating/cooling or DHW
 - Ventilation is required for human safety/comfort as well as equipment temperature control



Solutions: Behavioral & Operational

- Make a commitment
 - The commitment must come from the very top of the organization
 - Its involves more than simply signing a document or appointing a committee
- Be willing to mix things up
 - Stretch out payback periods
 - Assign an organizational “value” to GHG reduction or community perception
 - Look at the entire operation as a system



Solutions: Behavioral & Operational Continued

- Consider operational changes
 - Adjust temperature and/or pressure settings
 - Implement setback schedules
 - Shift office area cleaning schedules
- Empower staff to provide solutions
 - Provide incentives for creative thinking
 - Keep employees in the know
 - Everyone has ideas
- Use progress to increase involvement
 - Reach out to organizations that reward achievement



Conclusion

- Climate change must be solved in an organizational manner
- The solution requires constant and continuous change
- Don't diminish small opportunities
- The widget is only one small part of the solution



Thank You



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