

Earth Rangers Centre For Sustainable Technology





Overview

- About Earth Rangers
- System Detail
- Performance to date
- Questions





About Earth Rangers

Earth Rangers' award winning live shows and interactive programs motivate hundreds of thousands of children each year to take action to help protect the planet.

Our mission: Bring Back the Wild

- <u>Educate</u> children about the importance of biodiversity and the threats facing animals and their habitats
- Inspire children to adopt more sustainable behaviours
- Engage children and their families to take action to protect animals







Why a Green Building?

Earth Rangers values



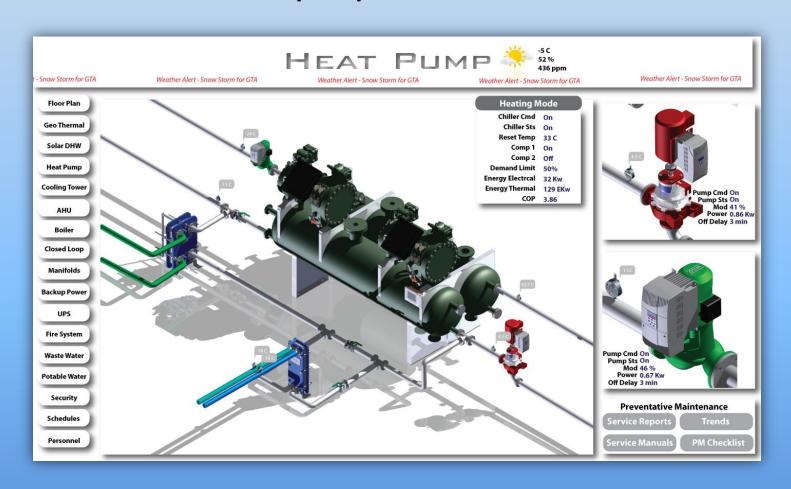
40% of energy consumed is in buildings
75% of a building's life cycle cost is in operations
Lower operating costs and impacts



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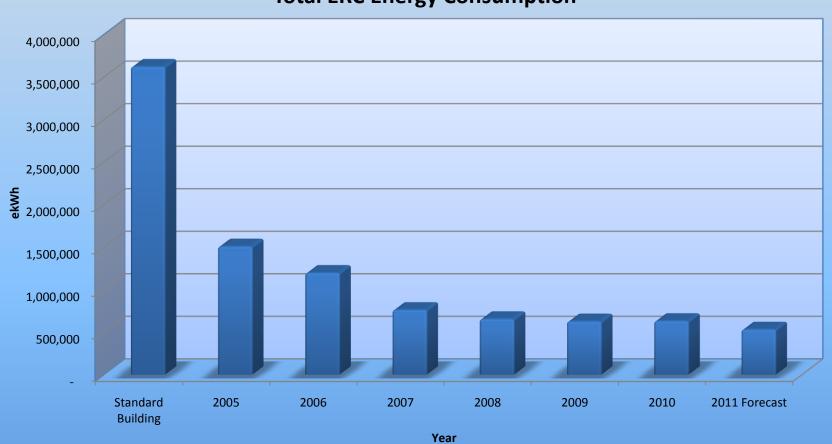
Repurposed Chiller





Performance

Total ERC Energy Consumption











Facts



- Heating 3.6-3.8
- Cooling 4.5-100+!
- Cooling Tower redundant
- ~125,000 ekWh saved

Future Plans

- Cool data centre with ground source
- Integrate solar thermal





Questions?

Thank you!

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www.ercshowcase.com

www.earthrangers.org