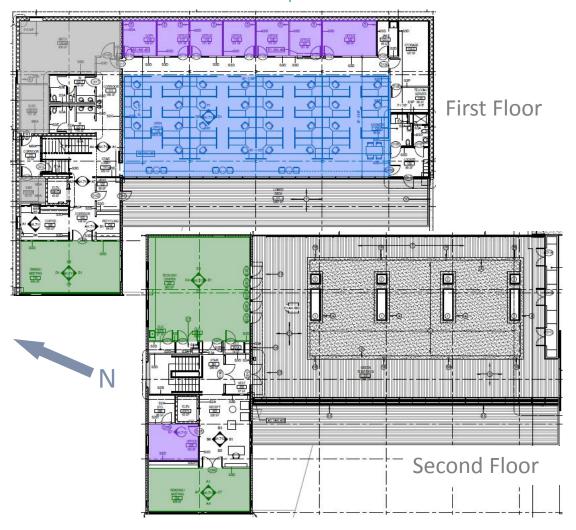
Intro





Private Office

Open Office

Conference

Mech/Elec



Energy Conservation Measures:

- High-performance envelope
- Green Roof
- Low Flow Plumbing Fixtures
- Composting Toilets
- Photovoltaic Array
- Electrical vehicle charging station
- Daylighting optimization
- Geothermal Variable Refrigerant Flow (VRF) System
- Natural ventilation
- Energy recovery ventilation
- Expanded thermal comfort conditions







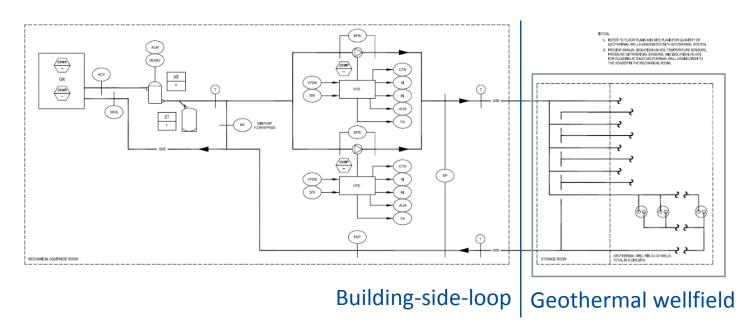








- Mechanical Highlights:
 - Geothermal VRF system
 - Natural ventilation backed up by mechanical energy recovery ventilation



What is POE?/Process Case Studies Recap



- Electrical Highlights:
 - PV array

Intro

- CFL lighting
- Daylight optimization





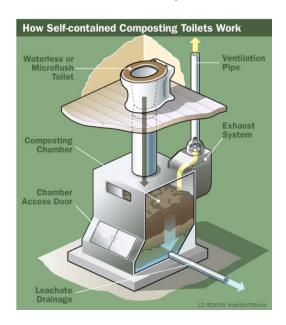




- Plumbing Highlights:
 - Low-flow fixtures

Intro

Composting toilets in the Superintendent's building



Certified LEED Platinum!

- 49.3% energy cost savings compared to ASHRAE 90.1-2004
- Energy Star score of 100

Intro

 Metered energy use of 43.1 kBtu/ft² (March 2015 through February 2016)

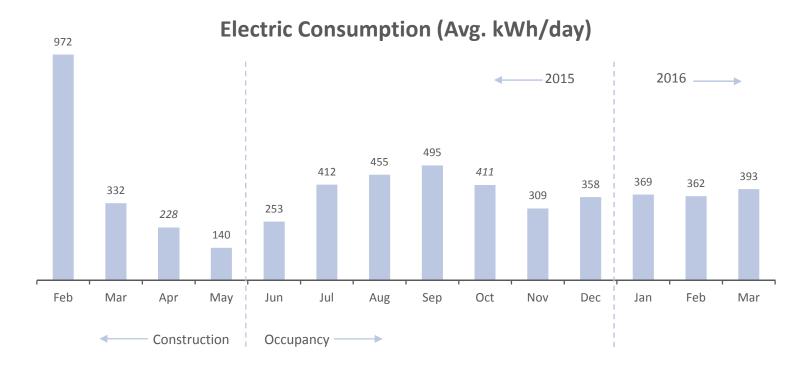






Post Occupancy Evaluation Utility Data Analysis:

Intro



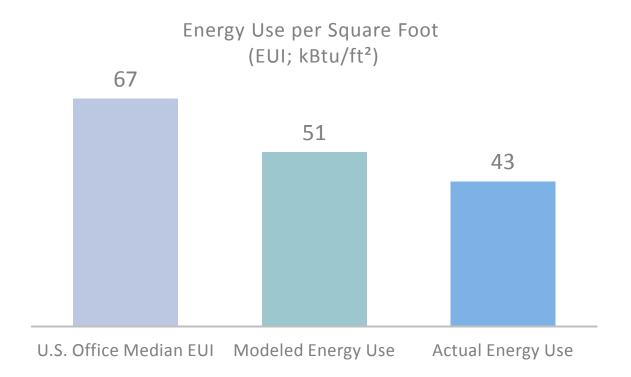




Post Occupancy Evaluation

Utility Data Analysis:

Intro







POE Highlights:

- The organization is thrilled overall with their new building
- Thermal comfort in open office, conference, and corridor spaces
- Daylight and views
- Headquarters building energy use

What is POE?/Process Case Studies Recap





Issues raised:

- Occupant comfort in private offices
- Superintendent's house A/C use
- Ceiling fan control
- Groundwater pump shut-off
- Composting toilets



What is POE?/Process Case Studies Recap





Lessons Learned:

- Thermal comfort generally worked, ceiling fan controls
- Contractor availability and training
- Composting toilets: design vs. actual frequency of use
- Occupants moving into a new building are generally satisfied, but there is always room for improvement.

What is POE?/Process Case Studies Recap

Agenda

Introduction

What is Post-Occupancy Evaluation?

- Value Proposition
- Process

Case Studies

- Non-Profit: Parks & People
- Multifamily Residential: Radian

Wrap-Up / Recap

Intro