PSE gets technical



Agenda

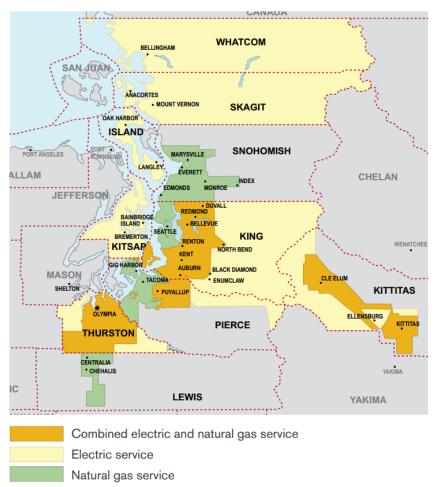
- About PSE
- Why change?
- What did we change?
 - Go Live
 - Stabilization
- Where are we today?
- Where are we headed?





About PSE

- Headquartered in Bellevue, WA
- 1.1 million electric customers
- 6,000 square miles in 10 counties
- 2597 transmission circuit miles
- 20,428 distribution circuit miles
- 428 transmission and distribution substations
- Diverse portfolio including wind, hydro, natural gas and coal







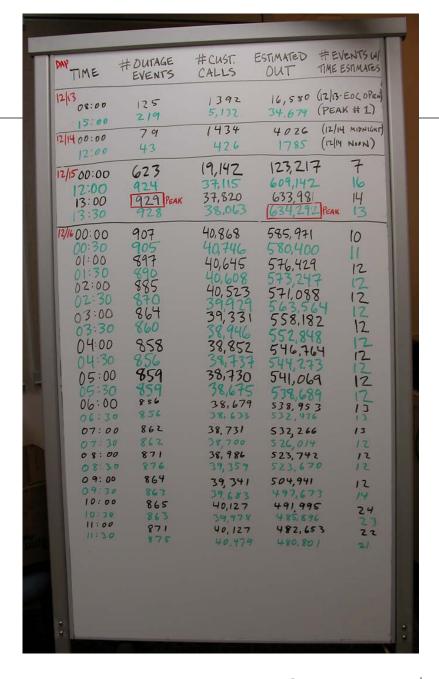
Why change?

Initial driver – 2006 "Hanukkah Eve" storm



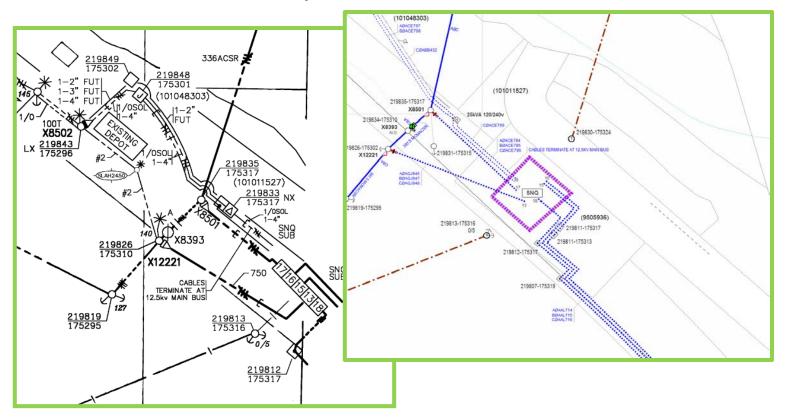


Why change?





- New Geographic Information System (GIS)
 - Convert from CAD maps to GE's Smallworld





- New Customer Information System (CIS)
 - Convert from legacy CLX product to SAP





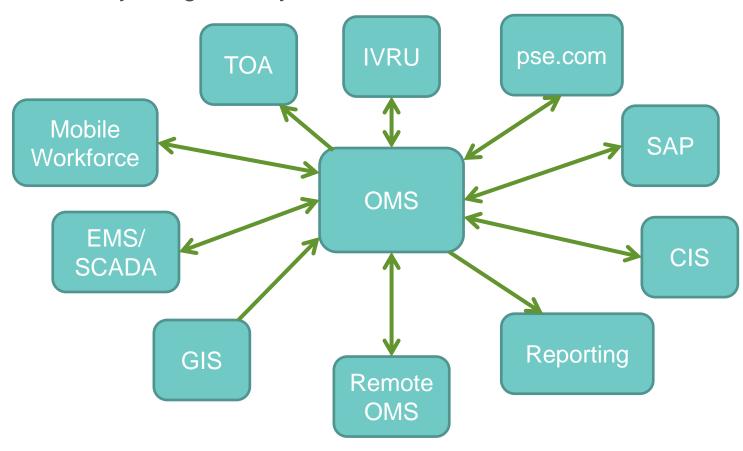


- New Outage Management System (OMS)
 - Convert from legacy CLX program to GE's PowerOn (v4.2.1)





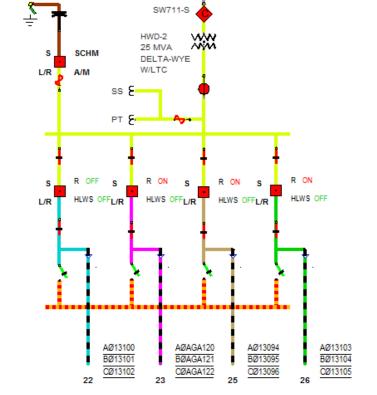
Goal: Fully integrated systems





Go Live on April Fools Day...

- Go live 4/1/13
 - (OMS, electric GIS, CIS)
- Data Issues
 - Used offshore resources to convert paper maps to electronic
 - Did field audit
 - Will be multi-year effort to stabilize
- System Issues
 - Integration
 - Performance
 - **Defects**
- Storm 5/13/13
 - 4 bases open ~ 24 hrs



COTTAGE BROOK-MOORLANDS

TLN-0085-HWD

SW711-D

Pseudo Point

HWD

Hollywood U-Map: 2605E055

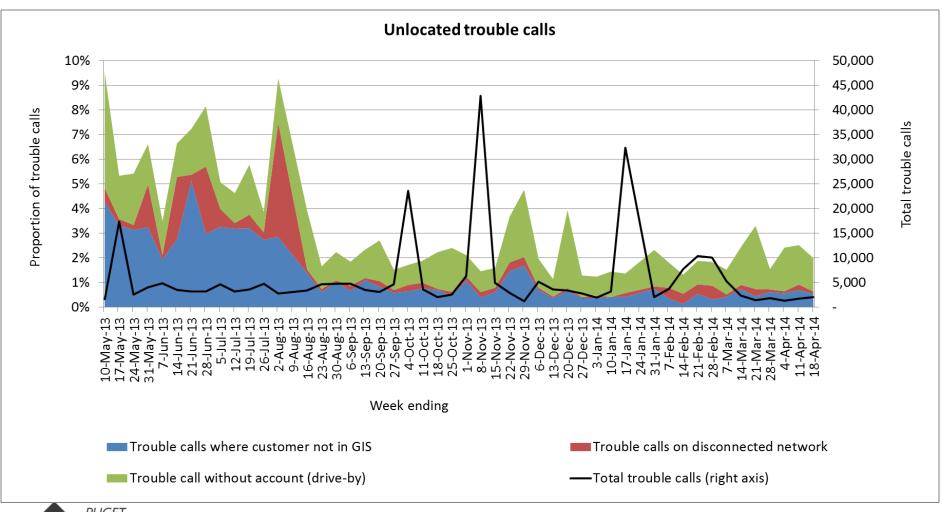


Huge Stabilization Effort began June 2013 >10 "Tiger Teams"

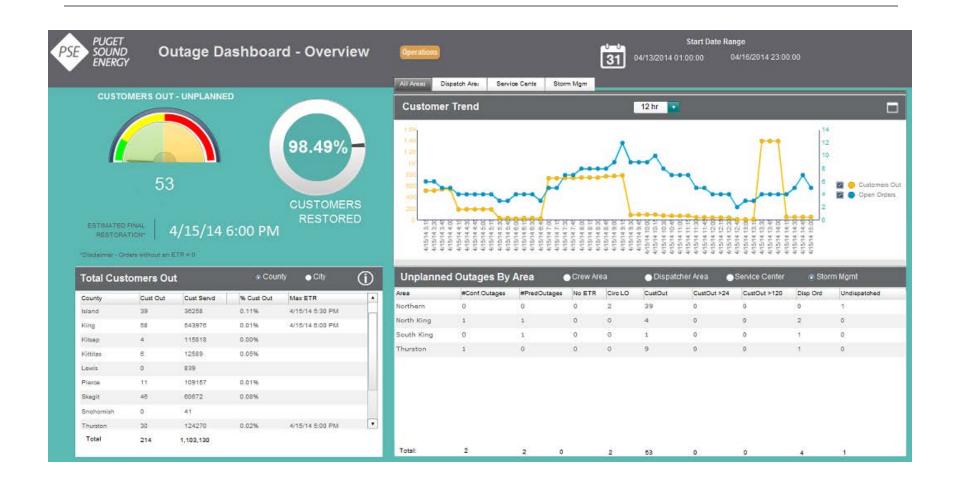
- Defects
- Performance
- Data
- Storm Preparedness
- **Dashboard**

- Map Viewer
- Training
- 911 Processes
- Communications/Change Management
- Work Practices

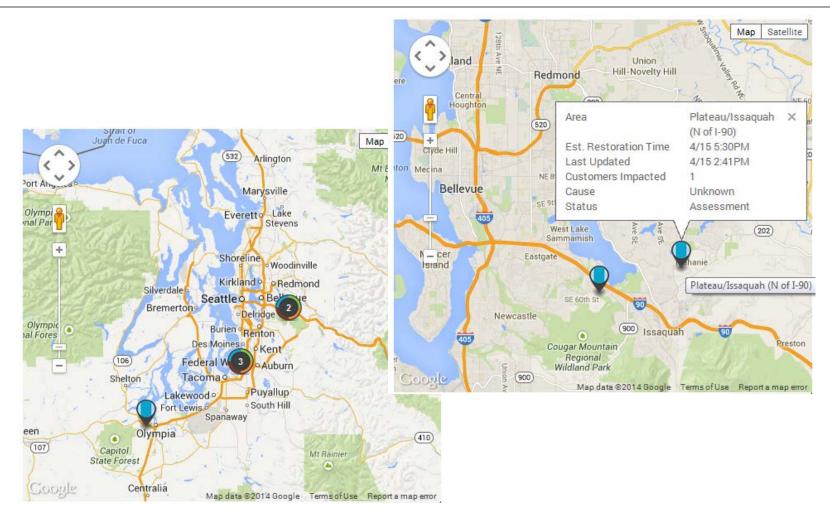














Where are we today?

- OMS
 - Still in stabilization mode, but fully operational!
 - Monthly patch schedule
- Storm Procedures
 - Practiced and validated in 2013/14 season
 - Training for new "best practice" procedures 2014/15
 - 2014/15 Exercises
- **Training**
 - New operator training curriculum complete 5/2014
 - Providing summer refresher training with updated SOP's



What's better?

- Accessible real time status •
- Report on individual outages
- Keep track of nested

outages

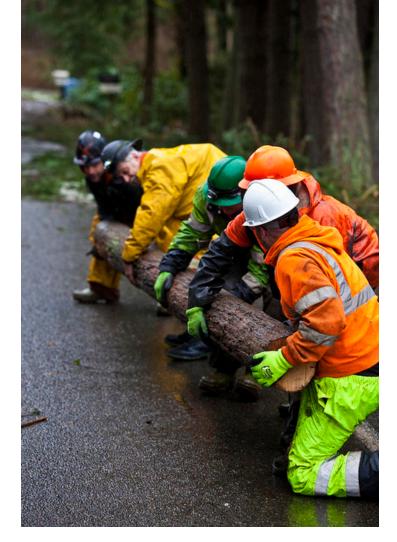
- One system of record for equipment and outage data
- Ability to accurately report to dashboard and outage map





What's different?

- New system requires more information!
 - Things we did quickly before now take more time
- Added efficiencies do not equal less personnel!
 - OMS maintenance
 - Administration
 - Patches/upgrades
 - Testing
 - IT Support
 - Outage integrity
 - Training/SME's





Where are we headed?

- Reach out to our customers based on set preferences
 - Planned & unplanned outages text, email, phone call
 - Mobile app
- Continue to enhance Dashboard
- Continue to enhance OMS usability

