



Idaho National Laboratory

INL Overview and ESPC Progress

Presentation for the FES-West ESPC Panel Discussion

Ernest Fossum, CEM
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INL – What and Where...

- Approximately 50 miles west of Idaho Falls, Idaho
- Began as the US Naval Proving Grounds in the 1940s
- 54 Reactors built and tested / 1 remains active
- Current mission includes nuclear energy research, basic scientific research, and homeland security research
- 500 Facilities – annually consume over 1.0 trillion Btu in energy and over 1 billion gallons of water - all at a cost well over \$11 million
- 1,642 Vehicle Fleet – annually consumes over 1 million gallons of various types of fuel including diesel, biodiesel, gasoline, E-85, LNG, and CNG
- Fleet logs over 9.5 million miles and 50,000 equipment hours annually

ESPC History

- First project constructed and implemented in 2000
- INL Research Center (IRC)
- Complex-wide lighting upgrade and primary transformer replacement
- ESCo: Johnson Controls
- Cost: \$850k
- Savings: \$92k annually
- Contract Term: 19 years



ESPC Current

- Second project for INL - *Planning to sign next month*
- Materials and Fuels Complex (MFC)
- Complex-wide lighting, boiler plant replacement, plant air system compressor replacement, full building controls installation, and a solar wall installation on two facilities
- ESCo: NORESKO
- Cost: \$35 million
- Savings: \$1.5 million
- Contract Term: 16 years



ESPC Future

- The MFC ESPC project has taken about 1.5 years to develop
- Will contribute a 5.5% energy reduction
- With this project complete - 12.1% toward the 30% energy reductions required by Executive Order 13423
- If similar ESPC projects will net at least 6% in savings, then 3 or 4 more projects are needed prior to FY 2015 to meet the 30% goal
- **Currently planning and budgeting to succeed!**



Thanks

Ernest L. Fossum, CEM
INL Energy Management
(208) 526-2513

ernest.fossum@inl.gov

