

Welcome to NREL



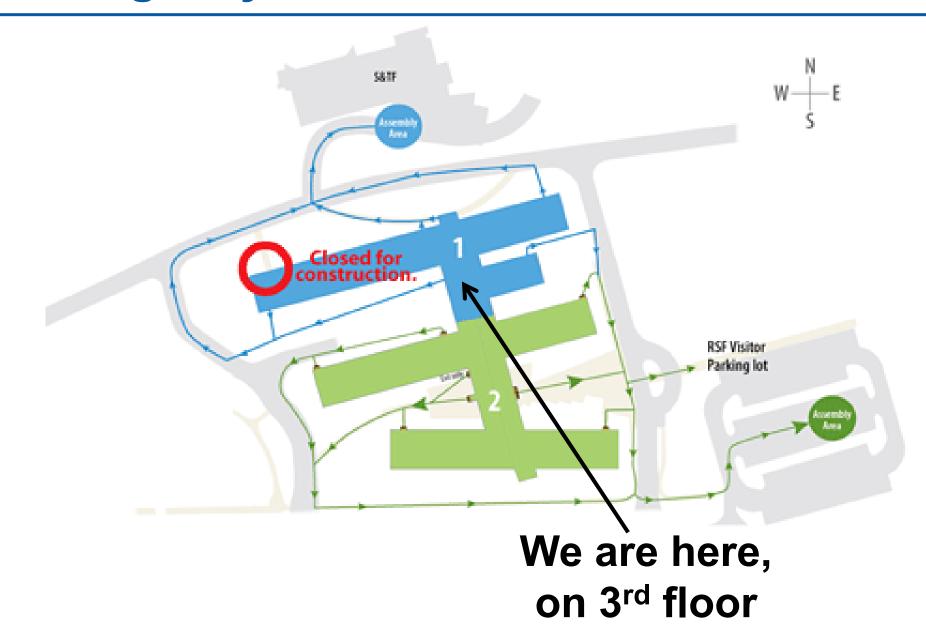
Biogas and Fuel Cells Workshop

11 June 2012

Dale Gardner

Associate Lab Director
Renewable Fuels &
Vehicle Systems

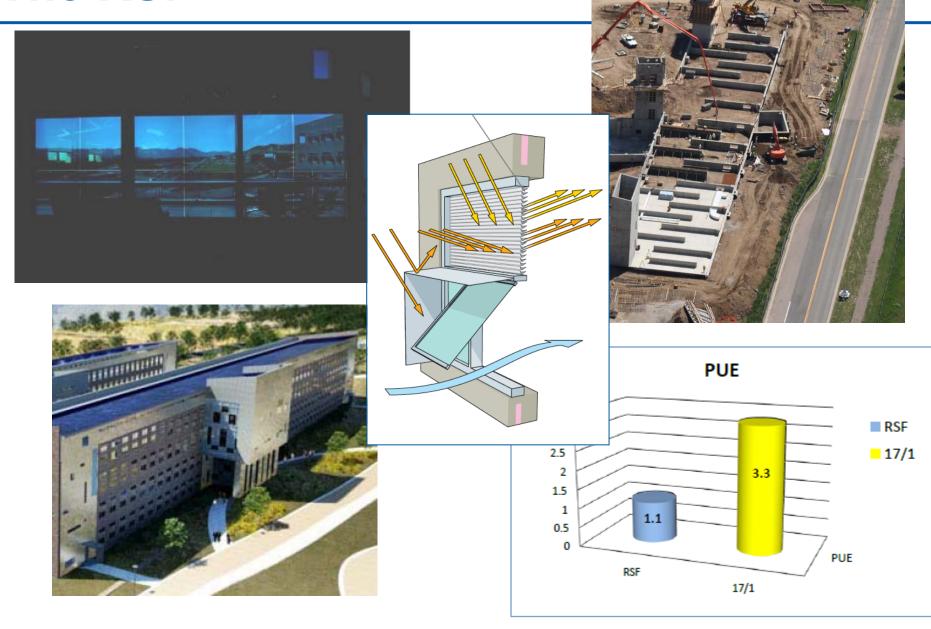
Emergency Evacuation



"facilities"

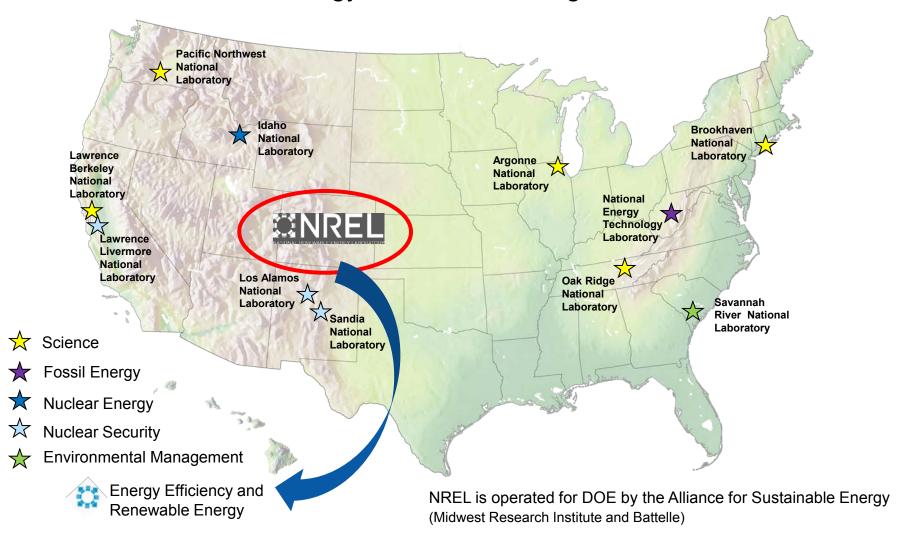


The RSF



U.S. Dept of Energy National Labs

NREL is the only DOE National Laboratory dedicated to renewable and energy efficient technologies



NREL Governance

Partnering with Excellence



Battelle

The Business of Innovation













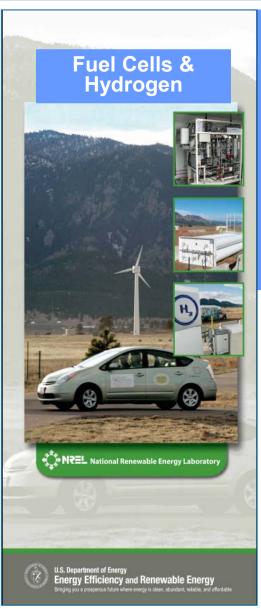


Massachusetts Institute of Technology

NREL's Mission



NREL Activities for FCTP and OBP



- Fuel Cells R&D
- H2 Production from Renewables
- Technology Validation
- H2 Storage and Delivery
- Safety, Codes, & Standards
- Market Transformation
- Manufacturing R&D
- Analysis

- Biochemical Conversion
- Thermochemical Conversion
- Cellulosic Ethanol
- Advanced Biofuels
- Pathway Technoeconomic Analysis
- Synthetic Biology
- National Advanced Biofuels Consortium



NREL R&D Locations

South Table Mountain



National Wind Technology Center



"Main Site"

"Wind Site"

NREL EE&RE – Leading by Example

 NREL Onsite Renewable Electricity -- PV > 4 MW, Wind > 5 MW





Renewable Fuel Heating Plant -- displaces 70% of natural gas use

Science and Technology Facility
-- first U.S. Federal LEED Platinum building





Vehicle Fleet -- >75% alternatively fueled

Research Support Facility

– net-zero energy (1,250
personnel in 330,000 ft²)



