

# Livermore Valley Open Campus

November 2013



Sandia National Laboratories



Lawrence Livermore  
National Laboratory



Fresh@the Labs



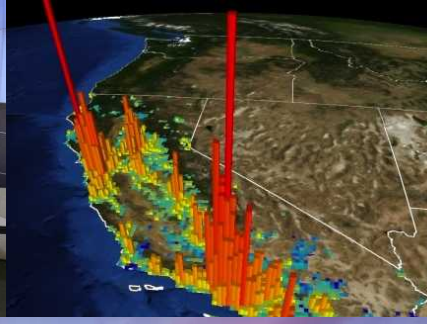
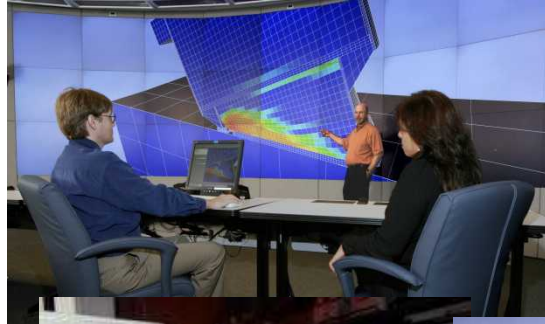
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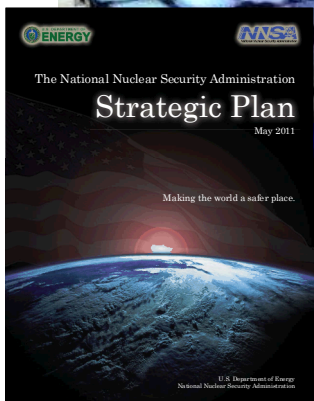
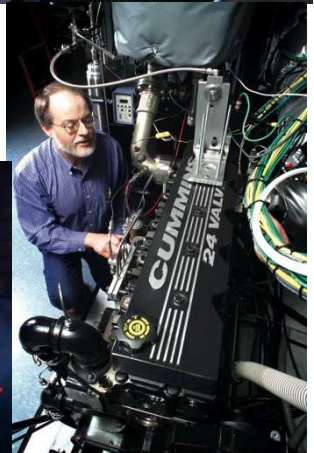
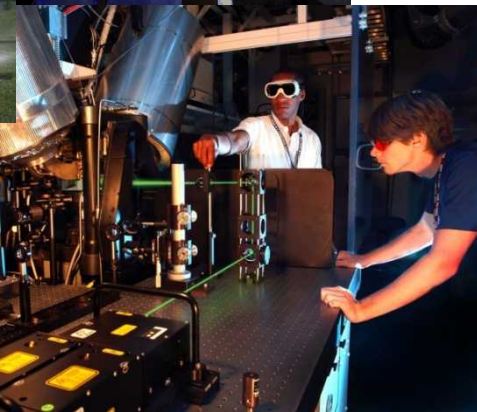
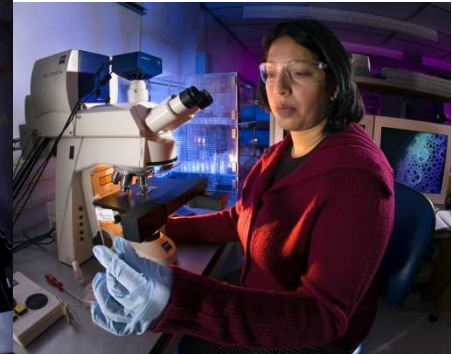


# An Open Campus Enhances LLNL & Sandia's Ability To Meet Mission Objectives

## *Our Missions*



## *Strong Science, Technology & Engineering*



# LVOC: “Front Door” to Engage Industry and Academia

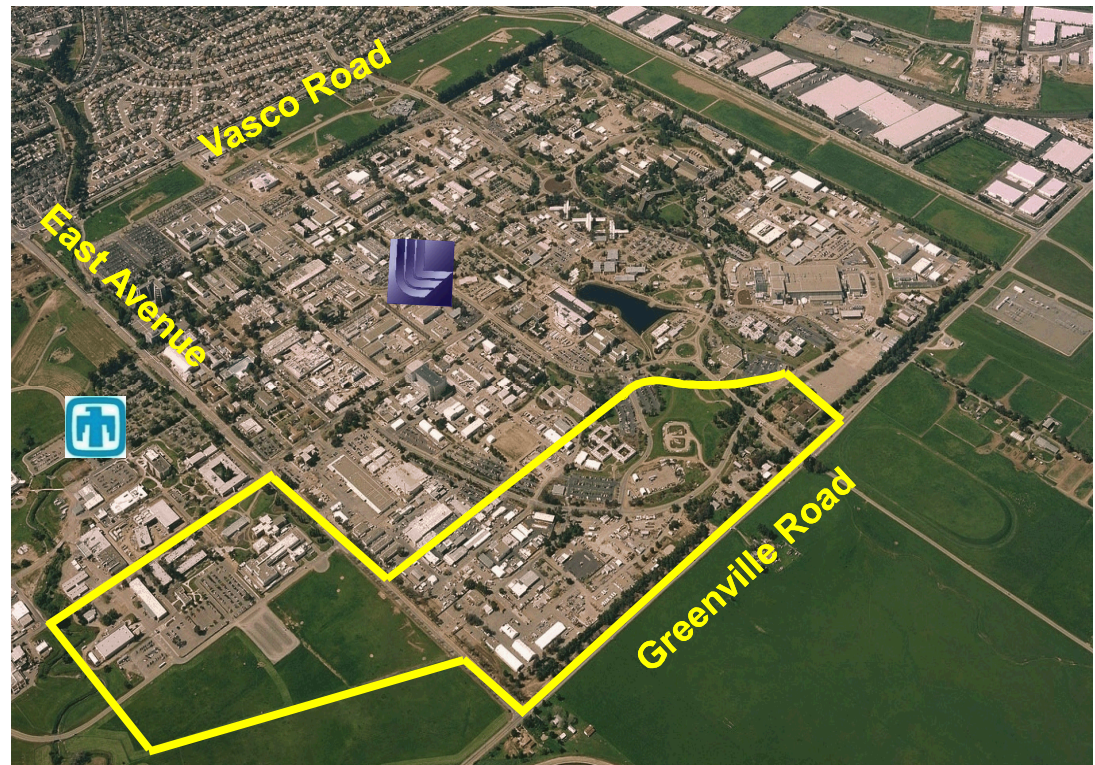
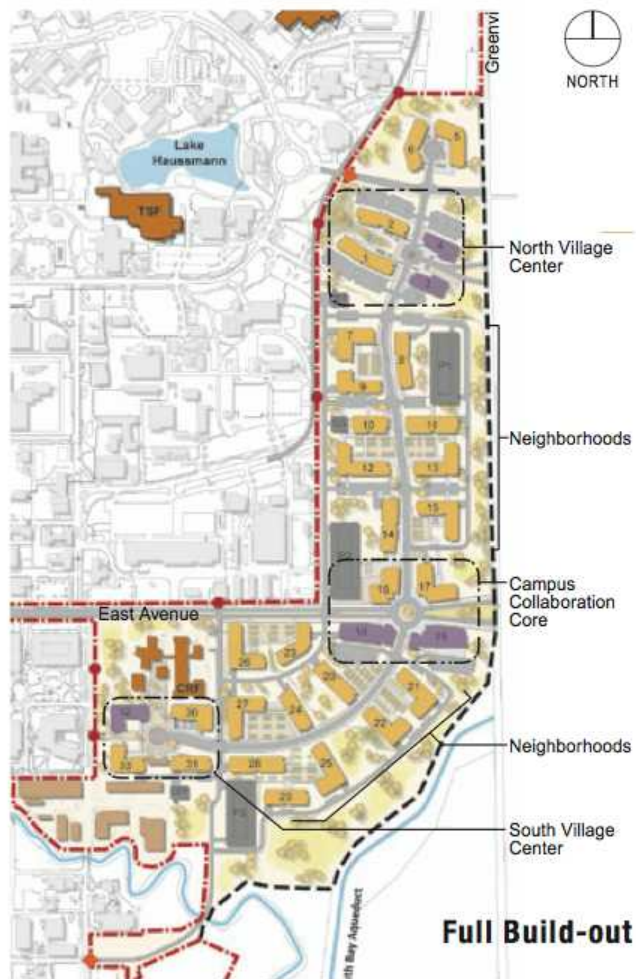
## Open Campus Attributes

- Campus-like environment with collaborative space
- Ready access for all partners, including foreign nationals
- Expansion of academic programs
- Access to world-renown facilities and resources
- Synergistic with 4th Bay Area innovation node



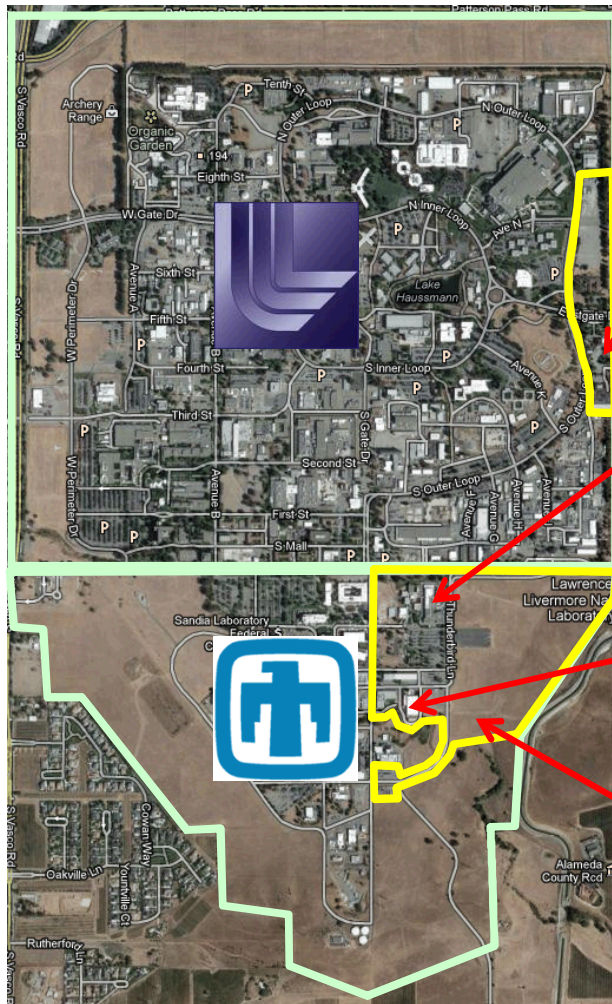


# LVOC 30 Year Master Plan





# LVOC Today



High  
Performance  
Computing  
Innovation  
Center



Combustion  
Research  
Facility



Cybersecurity  
Technology  
Research  
Laboratory



Clean Energy  
Demonstration  
Field

# LVOC Highlights for SNL

3232 visitors  
243 events

Since  
September 2010  
opening

- Over 150,000 sq. ft. of office, laboratory and auditorium in LVOC at SNL
- Combustion Research Facility
- Cyber Technology Research Laboratory
- Clean Energy Demonstration Field established
- Cool Earth Solar demonstration underway
- Hosting Farmer's Markets for labs
- Developing new programs and administrative building: CREATE



**UC DAVIS**  
UNIVERSITY OF CALIFORNIA



LVOC brings partnerships with state government, industrial development, and community outreach to the Livermore Valley

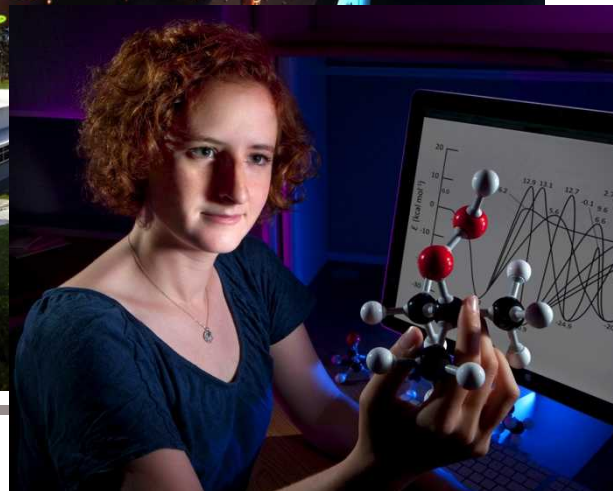
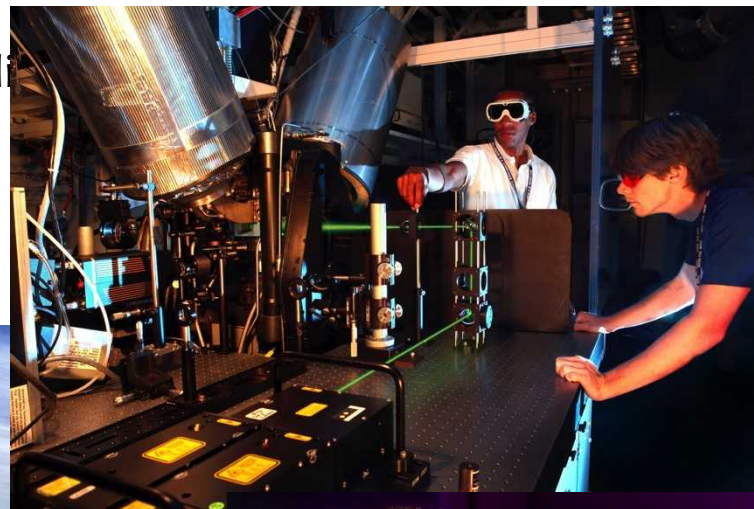


# SNL/LVOC Anchor: Combustion Research Facility



*A DOE/BES Collaborative Research Facility dedicated to energy science  
and technology for the twenty-first century*

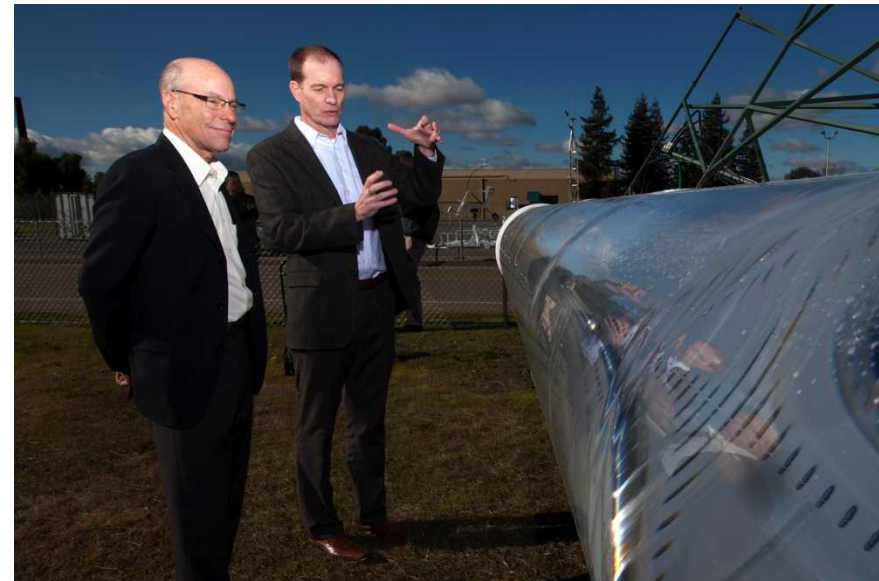
- 82,000-square-foot office and laboratory facility
- 36 highly specialized labs
- ~150 permanent and visiting research staff
- Keys to CRF's success:
  - Common scientific purpose
  - Collocation and collaboration
  - Strong ties to application
  - Full spectrum of basic to applied



# SNL and Cool Earth Solar CRADA

- Cool Earth Solar founded by former SNL employees
- Livermore-based small business
- Developing novel, low cost solar technology
- SNL and CES signed 5 year CRADA to develop and demonstrate technology on 5 acres of LVOC
- Ribbon cutting February 20
- CES wins CEC grant for build-out of test field

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# CIRI: Center for Infrastructure Research and Innovation

- Reduce risks and costs to encourage private industry to invest in hydrogen infrastructure
- Fuel cell vehicles highly developed, but not the fueling infrastructure
- Builds on and enhances GTS expertise
- Creating partnership with industrial gas suppliers, CA state, DOE and vehicle manufacturers
- First CIRI facility to be an LVOC research hydrogen fueling station

