

National Energy Technology Laboratory



Solid-State Lighting Program - “Organization”

C. Edward Christy

February 3, 2005

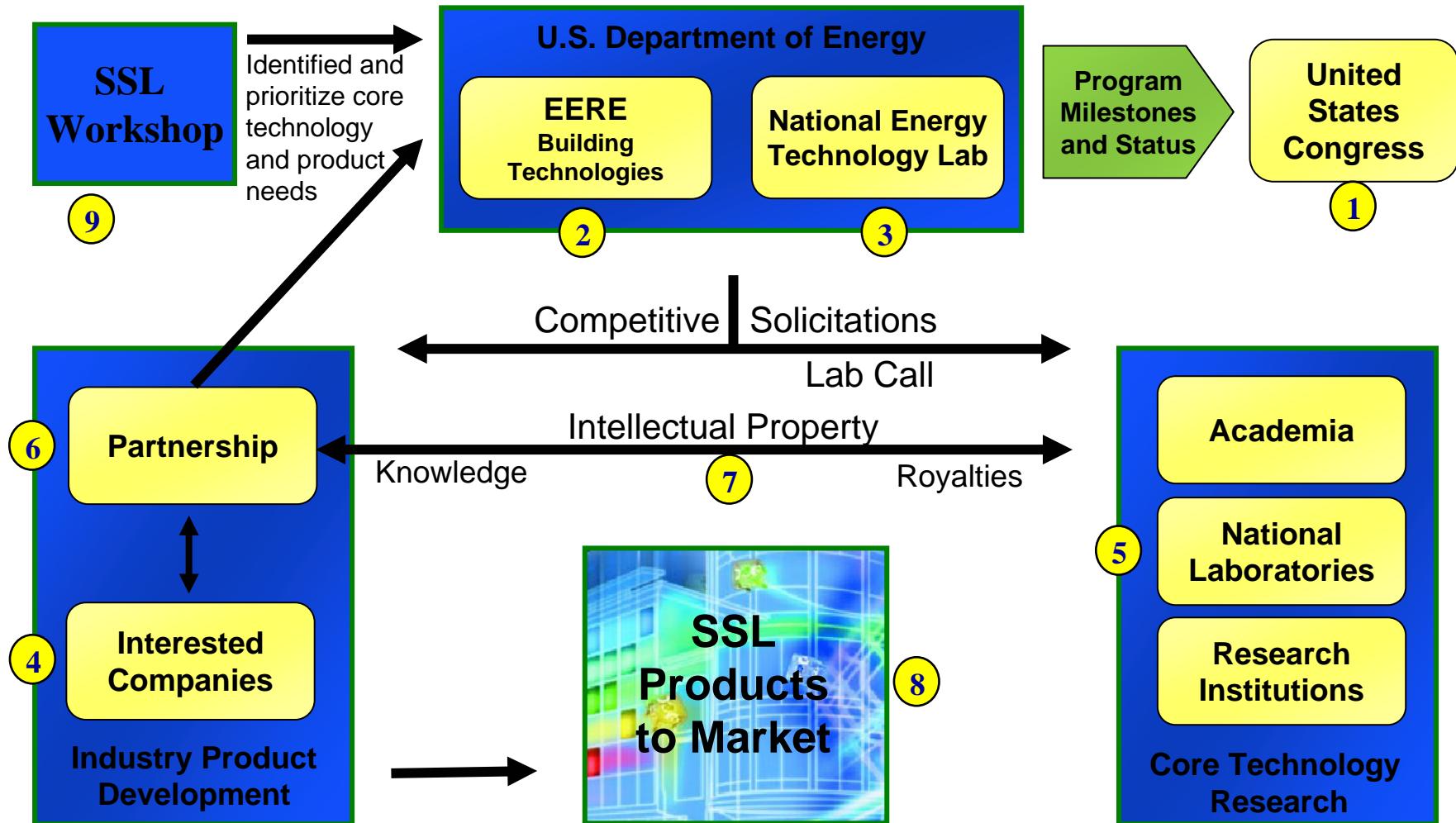


Solid-State Lighting (SSL) Program Cooperative R&D Program for SSL

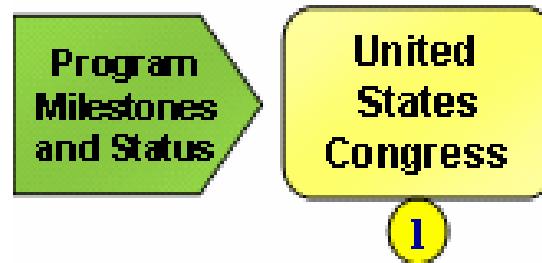
- Emphasize Competition
- Cost (and Risk) Sharing
- Partners Involved in Planning and Funding
- Targeted Research for Focused Need
- Innovative IP Provisions
- Open Information and Process
- Success determined by milestones met and ultimately energy efficient, long-life and cost-competitive products developed



Structure of SSL Operational Plan



United States Congress



- **Issues Appropriations and Language that “authorizes” the DOE to perform research and development in programs**
 - May issue appropriations
 - May issue language
 - Language may provide detailed guidelines on how to implement the program
- **Requires reporting on program success**
 - Milestones
 - Status

Building Technologies and NETL



- **EERE Building Technologies**
 - Serve as Program Lead for activities
 - Performs strategic planning
 - Performs program definition
 - Interfaces with Congress
- **National Energy Technology Laboratory**
 - Develops and issues solicitations
 - Performs project management of selected projects
 - Reports on project status to HQ

Interested Companies

- Competitive solicitation (aka Product Development) to industry
- Needs developed by DOE from results of this meeting
- Applications will require cost sharing
- Applications will require plan/SOW through development of a marketable SSL product



Note: Any EPAct compliant organization may apply to the Product Development financial assistance solicitation. All organizations will be evaluated against all evaluation criteria

Core Technology Program

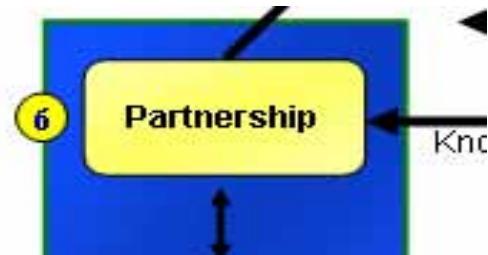
- **Solicitations**
 - to National Laboratories (“lab call”)
 - to academia and research institutions
- **Earlier stages of development**
- **May or may not require cost sharing**
- **Needs developed by DOE with input from Partnership group and this meeting**
- **Applications will be for barrier issues that may apply to multiple technical areas, i.e. product development not required**



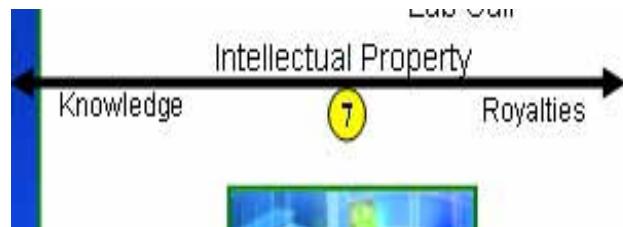
Note: Any EPAct compliant organization may apply to the Core Technology Program financial assistance solicitation. All organizations must abide by the provisions in the exceptional circumstances determination.

SSL Partnership

- Provide input to and prioritization of the Core Technology Needs
- Provide administrative expertise and staffing to organize and conduct technical meetings and workshops
- Support demonstrations of SSL
- Provide, at DOE's discretion, technical reviews of Core Technology projects
- Encourage efforts to develop SSL metrics and standards



Intellectual Property



Presentation by Paul Gottlieb

Assistant General Counsel for Technology
Transfer & Intellectual Property



SSL Products to Market

SSL Program Target...

“By 2025, develop advanced solid state lighting technologies that compared to conventional lighting technologies, are much more energy efficient, longer lasting, and cost-competitive by targeting a product system efficiency of 50 percent with lighting of a high quality spectrum”



This Workshop....



Other Purposes:

- Better understand the SSL Program
- Brief project presentations

SSL Operational Plan Process Status

SSL Program Kickoff Meeting

- Introduce program
- Project the SSL future
- Revise SSL research agenda

Done
1/13/03

Competitive Solicitations Issued

- SSL Partnership solicitation
- Product development for industry
- Core technology for academia and research institutions

Selected NGLIA
May 20, 2004
Industry
February 26, 2004
Academia
March 5, 2004
Research Institutions

Projects Selected

- Industry R&D projects selected by DOE
- Core technology projects selected by DOE

5 Selected
7 Industry
4 Lab

SSL Program Yearly Review

- All projects present results
- Update roadmaps as needed

Today and Tomorrow



Solicitation Schedule

3Q FY'05	<ul style="list-style-type: none">• Lab Call and Solicitation for Core Technology Research
3Q FY'05	<ul style="list-style-type: none">• Industry <i>et al.</i>, Solicitation for Product Development

