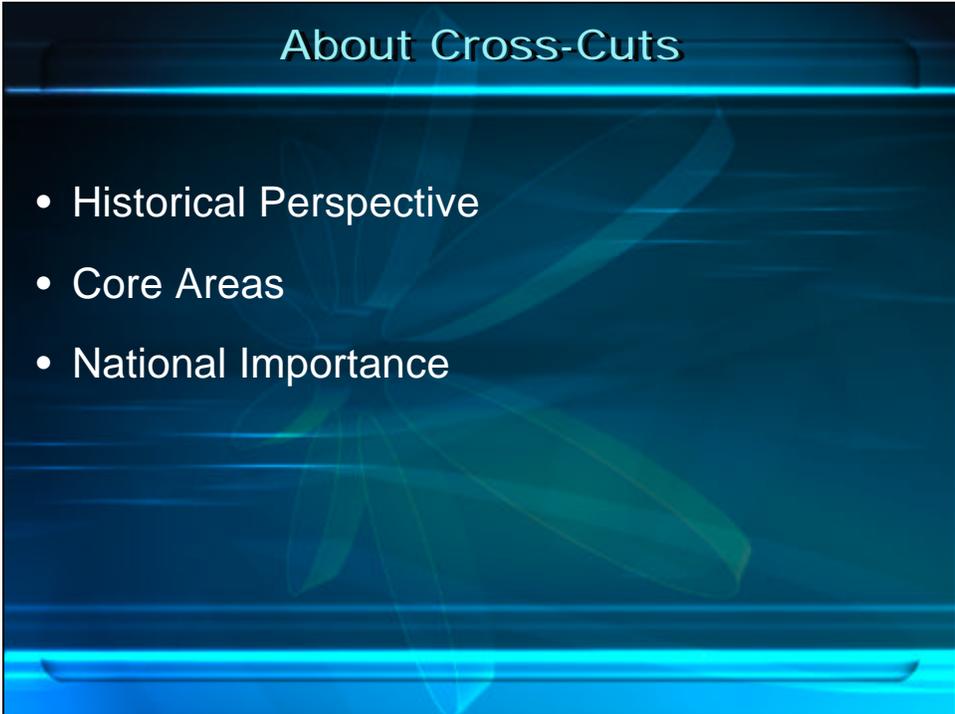


**Cross-Cuts and Off-Site
Presentation to ATP Advisory Committee
Marc G. Stanley, Director**



About Cross-Cuts

- Historical Perspective
- Core Areas
- National Importance

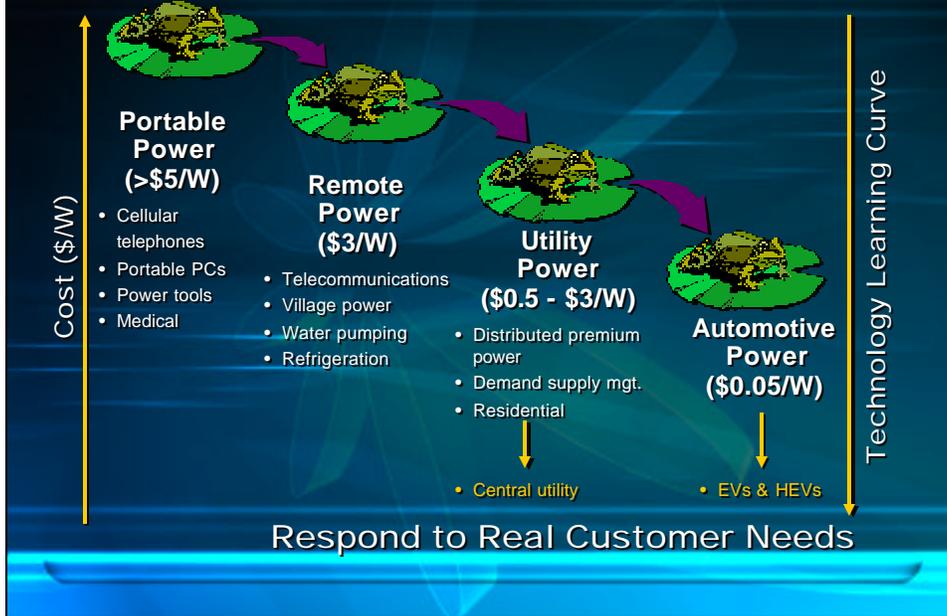
Technology Areas

- Energy
- Nanotechnology
- Homeland Security
- Tissue Engineering
- Drug Discovery
- Manufacturing

ATP's Energy Portfolio

- A jumpstart of industry's investment in novel, advanced energy technologies
- Broad scope across users & suppliers
 - Generation technologies in oil, gas, biomass conversion, solar cells, and micro-fuel cells
 - Storage technologies, including batteries, supercapacitors and flywheels
 - Management and usage technologies for motors, generators, and power electronics
 - Energy conservation in manufacturing, building-usage technologies
 - Applications in support of hydrogen economy and global warming initiatives

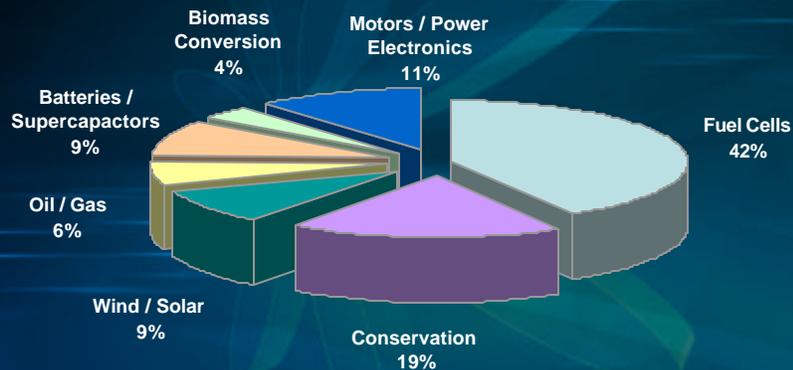
Leap Frogging to Tomorrow's Power Technologies



53 Advanced Energy Awards

(since 2000)

Industry Cost-share = \$118 M est.



Total ATP Costs = \$129 M est.

ATP Awards–Nanotechnology

Since 1991 ...

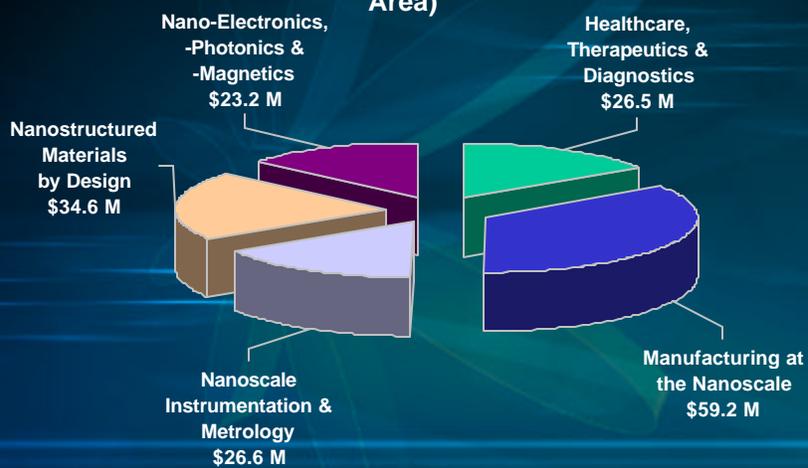


**44 ATP awards
in Nanotechnology**
26 Single applicants
18 Joint ventures

**Over \$329.6 million of
high technical risk R&D funded**
ATP share = \$170.1 million
Industry share = \$159.5 million

ATP Awards–Nanotechnology

(NSET Investment Mode 2: by NNI Grand Challenge Area)



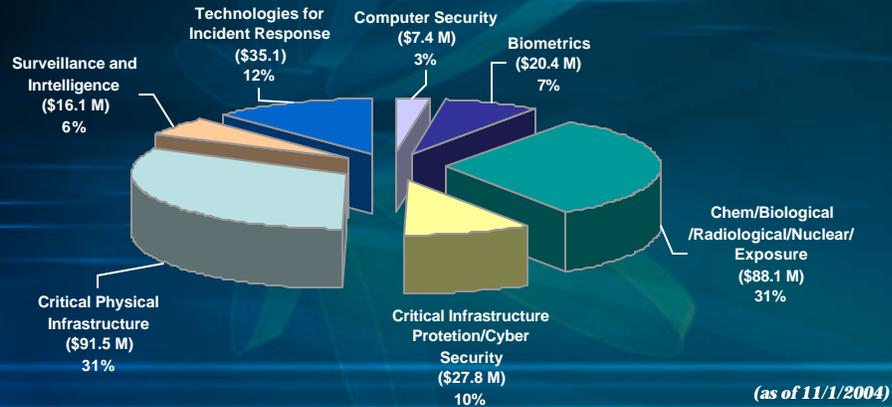
ATP Investments in Homeland Security

Photonics in Homeland Security

- > 18 projects
- > \$112.4 M total investment
- \$ 59.2 M ATP share
- \$ 53.2 M industry share

All Competitions

- > 109 projects
- > \$521.0 M total investment
- \$286.4 M ATP share
- \$234.6 industry share



Other Cross-Cuts

- Tissue Engineering
- Drug Discovery

Manufacturing



ATP Offsite Results

About the Offsite

- November 18-19, 2004
- 20 Professional Staff
- Three Areas of Concern
 - Scalability
 - Outreach
 - Industry Interactions

Scalability: Issue

- Ability to expand and/or contract process and procedures within the confines of current resources

Scalability: Solutions

- Hats and Roles
- Competition
- Project Management
- Outreach
- Evaluation
- Internal Interactions

Outreach: Issue

- Getting the word out to the right people at the right time through the most effective vehicles

Outreach: Solutions

- High priorities include beneficiary and enabler audiences
 - **Beneficiaries include applicants, award recipients, and user/consumer**
 - **Enablers include VCs/Angels and State Seed Funds**

Industry Interactions: Issue

- Create a flexible framework for developing and nurturing strategic relations with key industry groups and stakeholders for sustained value of ATP

Industry Interactions: Solutions

- Realize ATP's vision of becoming a broadly accepted and highly valued national technology development resource through an expanded portfolio of products in education, information exchange, and others that complements ATP's funding programs
 - **Enhanced portfolio includes innovation workshops, emerging technologies education, and relationship development for industry**