

NYSERDA

Tasks 7 and 8: School Building
Energy Efficiency Applied Research

Task 7 & Task 8: Technology Integration and Applied Engineering and Design Assistance

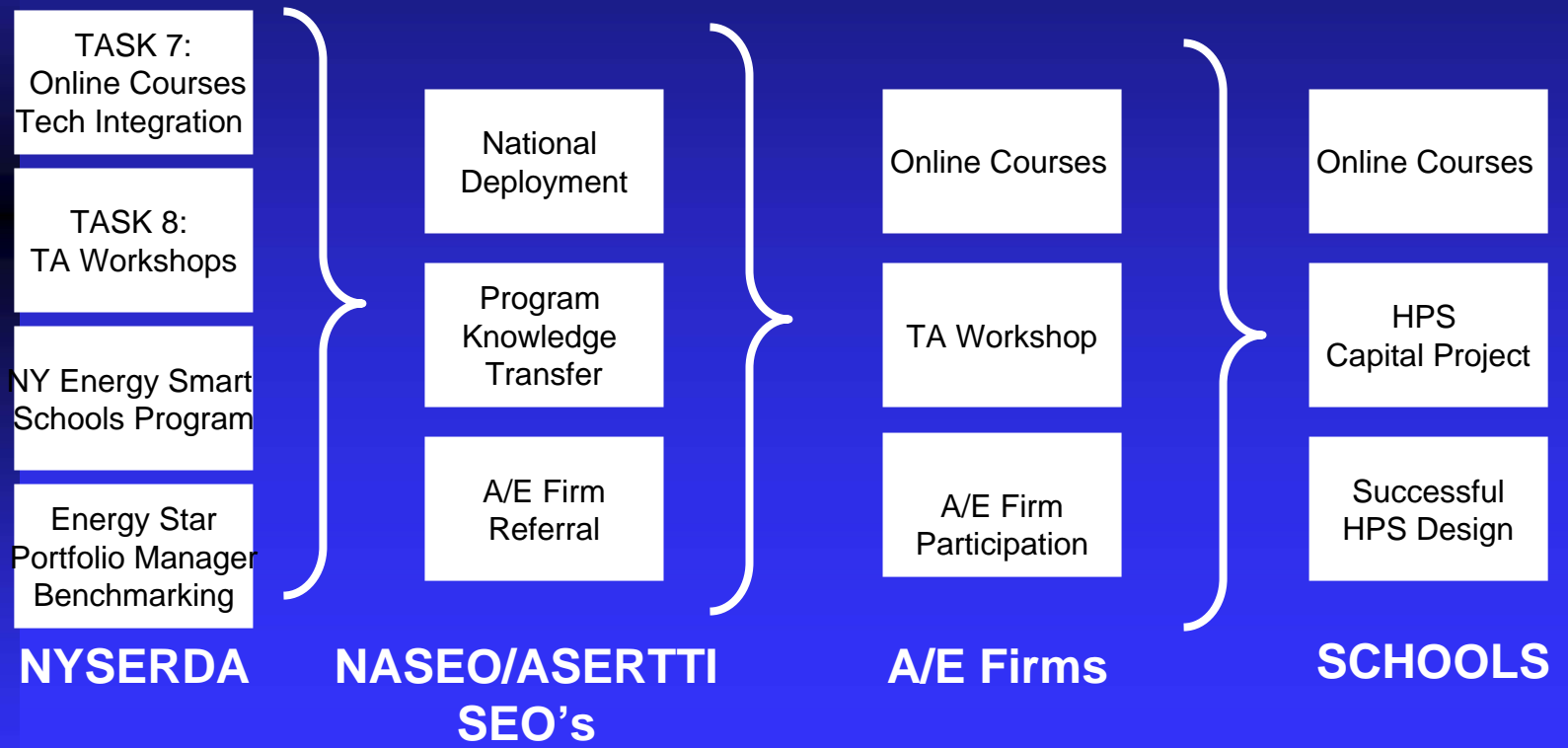
■ Project Goals (Task 7)

- ◆ HPS design knowledge for A/E Firms
- ◆ Develop online courses for CEU credit

■ Project Goals (Task 8)

- ◆ Build model TA Pilot Program
- ◆ Prepare firms to provide regional based design assistance

Technology Integration and Applied Engineering Design Assistance Pilot



Project Team

- Sustainable Buildings Industry Council
 - ◆ NJIT Center for Architecture and Building Science Research
 - ◆ Eley Associates (now Architectural Engineering Corporation)
 - ◆ Sustainable Design Collaborative
 - ◆ Building Media

Project Timeline

- SBIC Project Team selected (March '03)
- Advisory Council (April '03)
- 25 HPS Design courses completed (Jan '04)
- TA Workshop - Albany, NY (May '04)
- Website Promotion (August '04)
- 3 O&M courses completed (Sept '04)
- Website Transferred to Rebuild America (Sept '04)
- Regional Deployment Recommendations (Sept '04)

Task 7: Online Training for HPS Design and Operation

■ Tasks

- ◆ Develop 25 Design Courses and 3 O&M Courses with continuing education credit
- ◆ Use open architecture easily transferable for future curriculum development efforts by states and regional groups
- ◆ E-commerce functionality

■ Results

- ◆ 10,000 website hits
- ◆ 500 registered users within 40 states

Task 7: Online Training for HPS Design and Operation

Curriculum Topics

- Overview and CHPS vs LEED
- Site Design
- Lighting & Electrical Systems
- Daylighting & Windows
- EE Building Shell
- M&V Systems
- Renewable Energy
- Water Conservation
- Recycling Systems, Waste Management
- Transportation
- Efficient Bldg Product
- Health & Productivity
- Commissioning

Task 8: Applied Engineering and Design Assistance

- Pilot TA workshop conducted
- TA providers become “super advocates”
- AE firms leading transition to HPS projects
- Advocate 3rd party financial incentives
- Overcome barriers to HPS
- Placement of AE firms on referral lists with NASEO/ASERTTI/SEO
- Outreach to SEO’s interested in pilot results

Next Steps

- State Offices may leverage online training in regional programs
- Develop “state-specific” or “climate zone - specific” design guidelines
- Develop additional curriculum
 - ◆ Operations and maintenance courses
 - ◆ Commissioning systems
 - ◆ Technical training on specific building systems
 - ◆ How to sell HPS to school administrators
 - ◆ State-specific building codes linked to design guidelines
 - ◆ Others?