

U.S. DEPARTMENT OF ENERGY
Energy Efficiency & Renewable Energy

DOE Solar Energy Technologies Program Overview

12th Annual Congressional Renewable Energy & Energy Efficiency EXPO

May 14, 2009

John Lushetsky
Acting Deputy Assistant Secretary
Energy Efficiency
Department of Energy
Office of Energy Efficiency and Renewable Energy

U.S. Department of Energy Budget Breakdown

U.S. Department of Energy
Annual Budget: **\$33 B (FY09)**
\$26 B (FY10R*)

Energy Efficiency, Renewable Energy (EERE)
Annual Budget: **\$1.9 B (FY09)**
\$2.3 B (FY10R*)

10 Programs

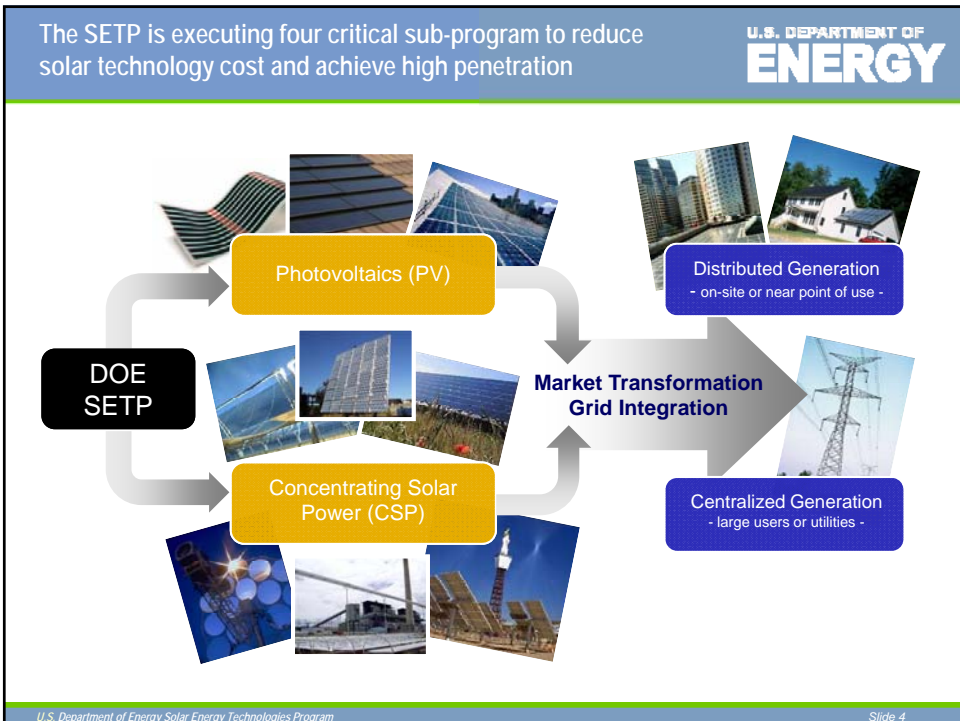
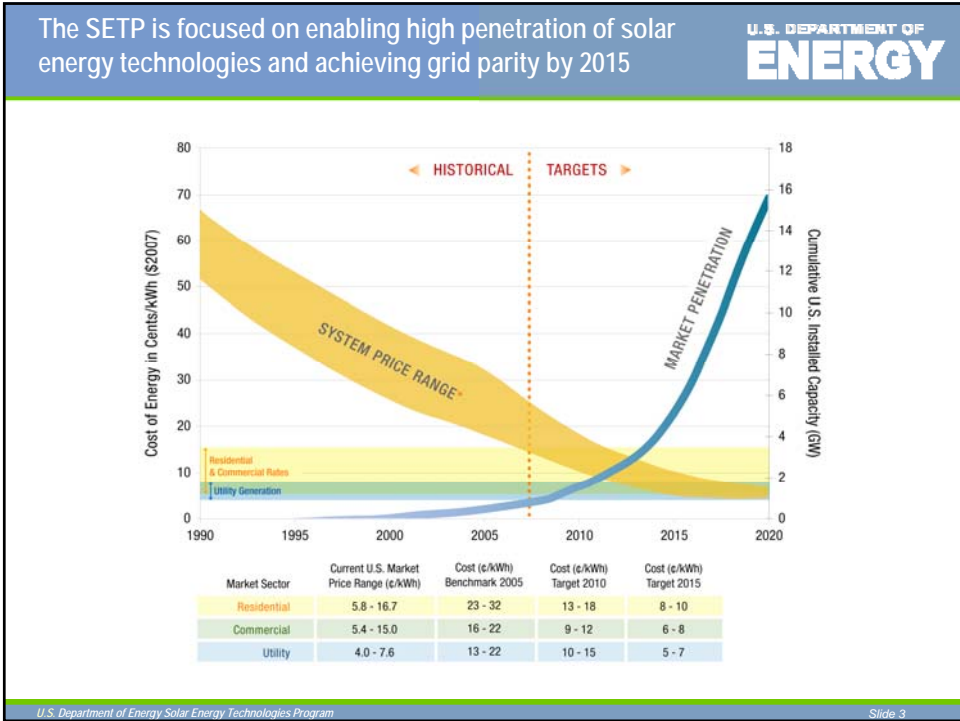
<p>Energy Efficiency</p> <ul style="list-style-type: none"> Building Technologies Weatherization & Intergovernmental Industrial Technologies Federal Energy Management Vehicles 	<p>Renewable Energy</p> <ul style="list-style-type: none"> Wind & Hydropower Biomass Geothermal Hydrogen, Fuel Cells & Infrastructure and
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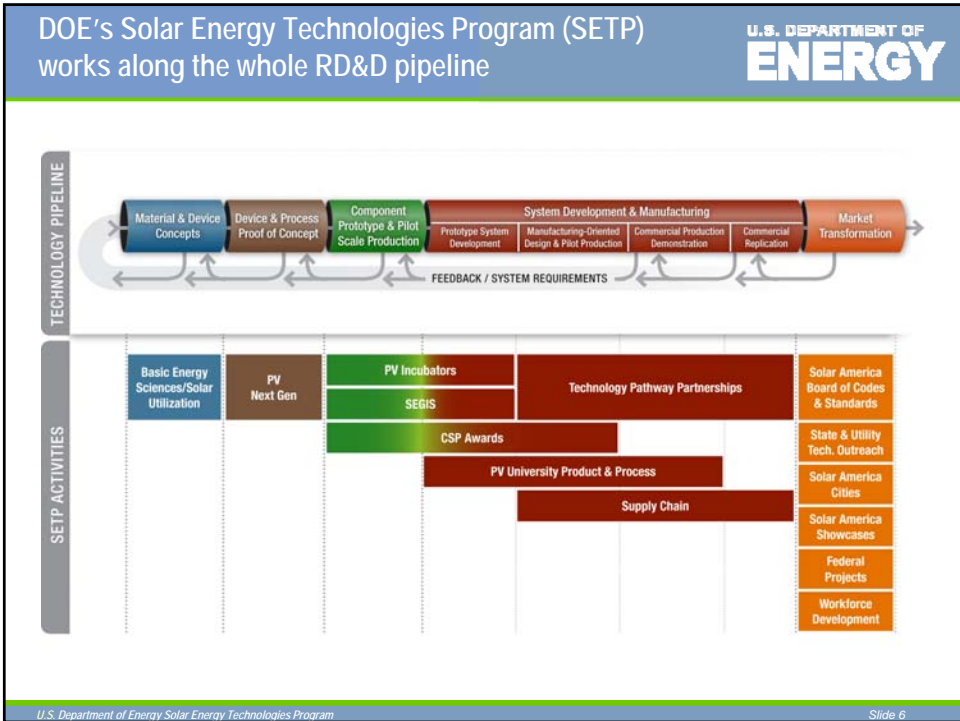
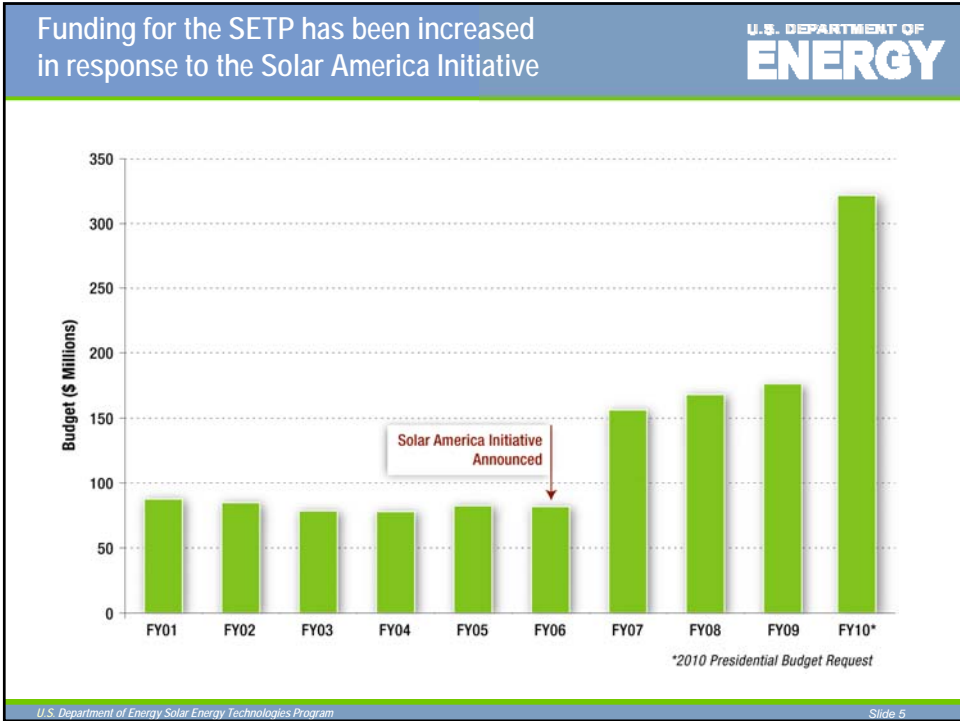
Solar Energy Technologies Program (SETP)
Annual Budget: **\$175 M (FY09)**
\$320 M (FY10R*)

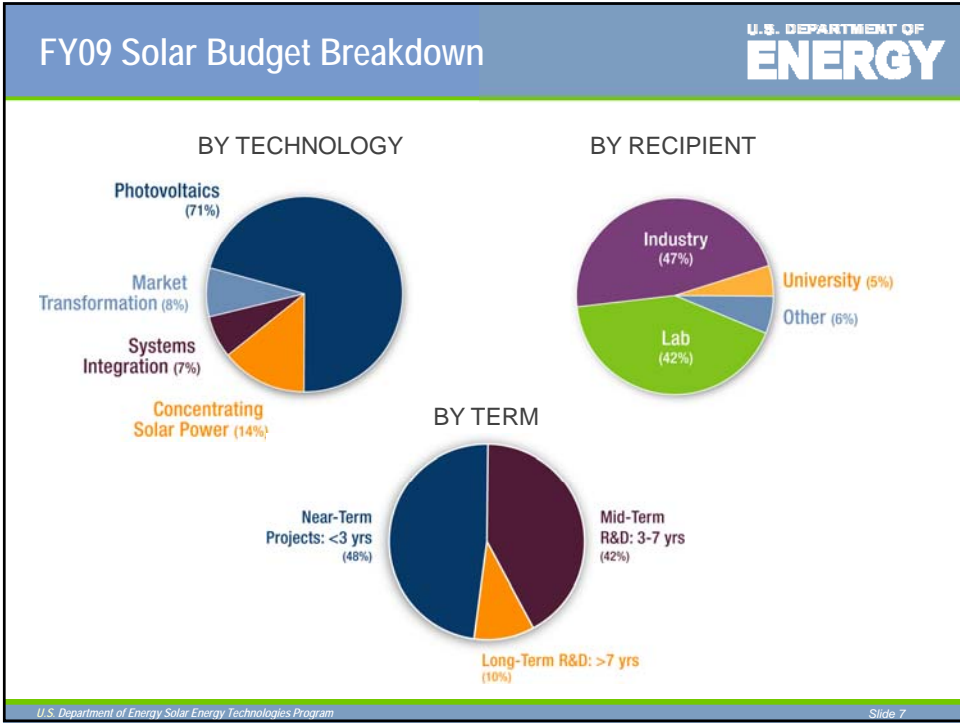
TIME

*2010 Presidential Budget Request

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Solar Energy 2010 Request Budget Summary

Program Focus: Enable high penetration of solar energy technologies and achieve cost competitiveness by 2015.

BUDGET REQUEST

Activity	Funding (\$ in thousands)		
	FY 2008 Approp.	FY 2009 Approp.	FY 2010 Request ¹
Photovoltaic R&D	136,744	145,000	149,470
Concentrating Solar Power	27,617	30,000	78,420
Systems Integration	0	0	29,660
Market Transformation	0	0	27,450
Solar Electricity Energy Innovation Hub	0	0	35,000
Solar Heating and Lighting ²	1,959	0	0
TOTAL	166,320	175,000	320,000

¹ The Solar Program has been restructured in FY 2010 in order to highlight the crosscutting management of Systems Integration and Market Transformation which include both PV and CSP activities.

² Solar Heating and Lighting was transferred to the Building Energy Technologies Program in FY2008

KEY ACTIVITIES

- **Photovoltaics (PV)** – Increase PV efficiency, system reliability and manufacturing capability; develop next-generation materials and devices and lower cost production processes for near-term PV systems.
- **Concentrating Solar Power (CSP)** – increase CSP efficiency and reliability and develop thermal storage technologies to allow CSP to be cost competitive in intermediate and baseload power markets; establish a pilot solar zone to facilitate utility-scale solar deployment.
- **Systems Integration** – develop energy management and storage technologies and modeling tools to optimize integration of solar systems into the grid.
- **Market Transformation** – a new Solar Policy Analysis Network (SPAN) to provide assistance in overcoming non-technical barriers to market penetration; continued support to Solar America Cities and industry Codes and Standards.
- **Solar Electricity Energy Innovation Hub** - pursue cutting edge research in solar technology areas involving university, laboratory, and industry expertise.

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Thank You

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