
2008 SETP Internal Program Review



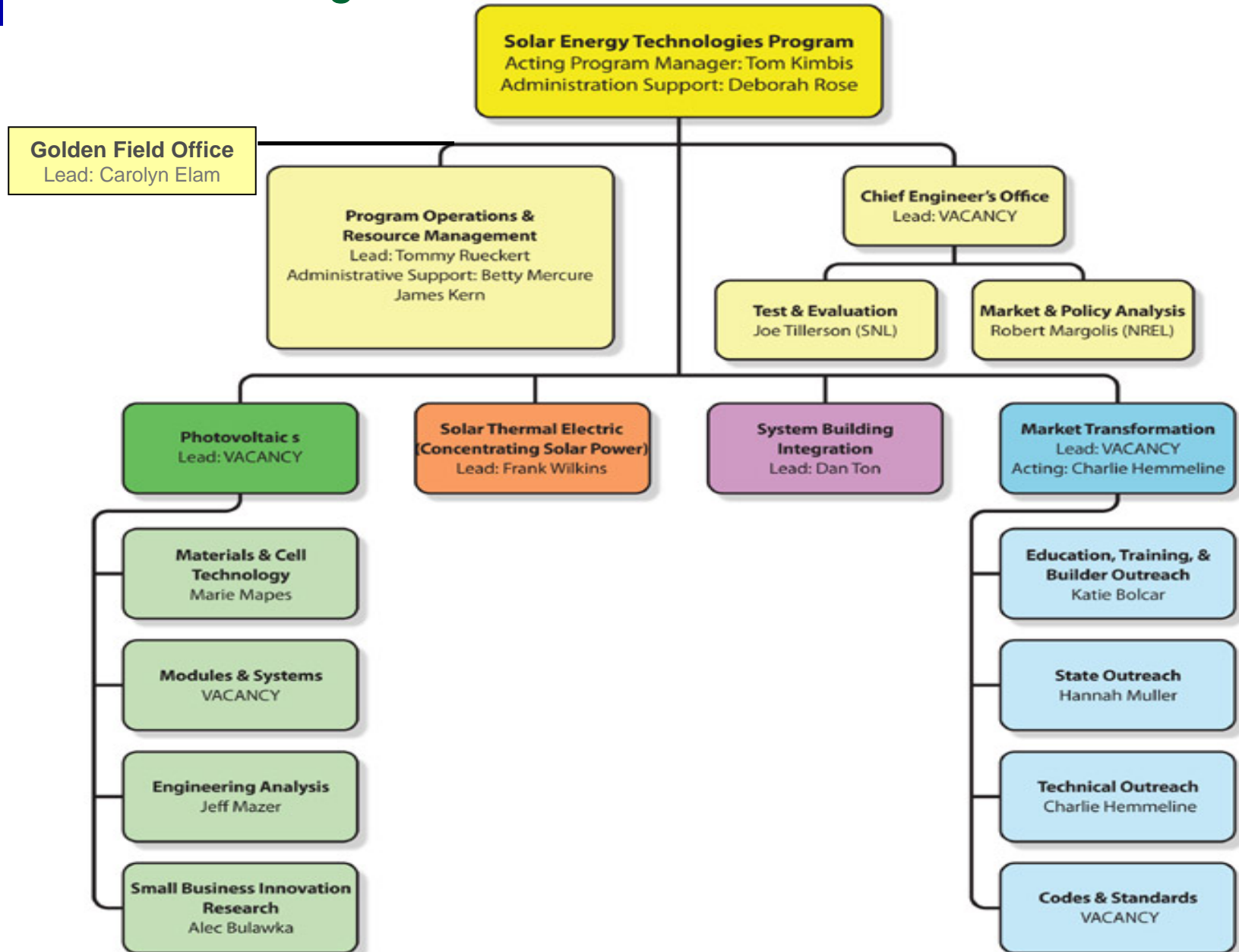
Thomas P. Kimbis
Acting Program Manager
Solar Energy Technologies Program
April 22, 2008

For More Information:

http://www.eere.energy.gov/solar/solar_america/

Email: tom.kimbis@ee.doe.gov

U.S. Solar Program



Solar America Initiative (SAI) drives Federal work.



Achieve grid parity for solar electricity from photovoltaics across all market sectors by 2015.

In order to reach our SAI goal



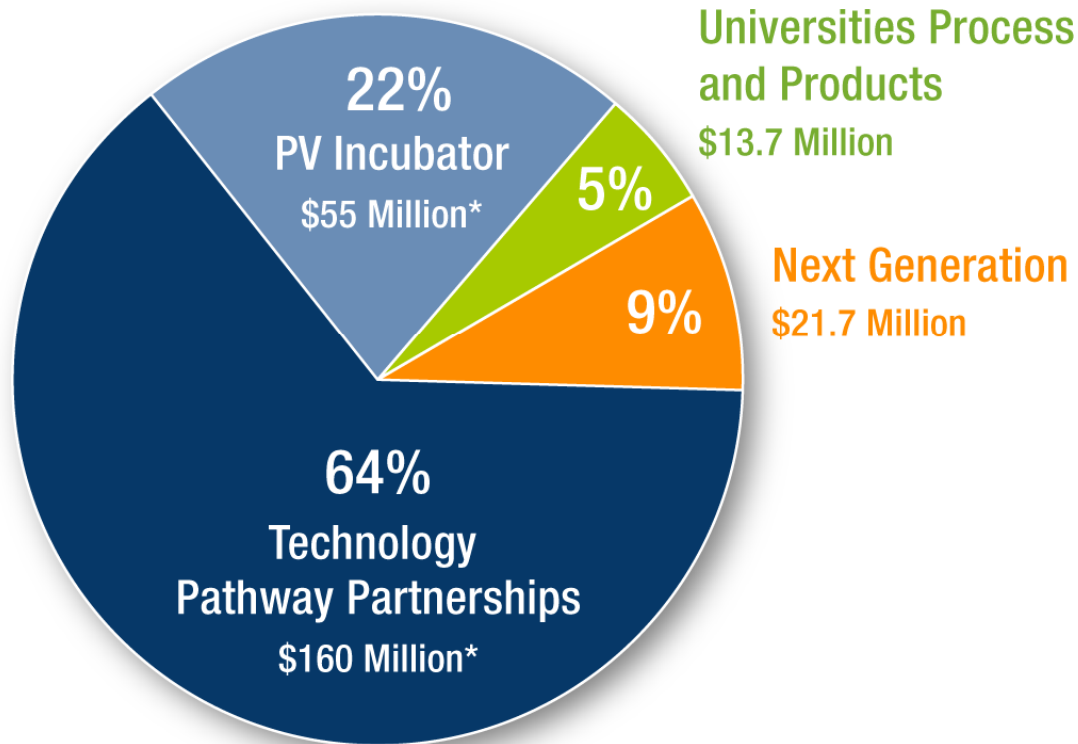
| Market Sector | Current U.S. Market Price Range (¢/kWh) | Cost (¢/kWh) Benchmark 2005 | Cost (¢/kWh) Target 2010 | Cost (¢/kWh) Target 2015 |
|---------------|---|-----------------------------|--------------------------|--------------------------|
| Residential | 5.8-16.7 | 23-32 | 13-18 | 8-10 |
| Commercial | 5.4-15.0 | 16-22 | 9-12 | 6-8 |
| Utility | 4.0-7.6 | 13-22 | 10-15 | 5-7 |

Solar Costs

... we have invested our SAI R&D to date as so.



New R&D Investments in Companies and Universities Under SAI

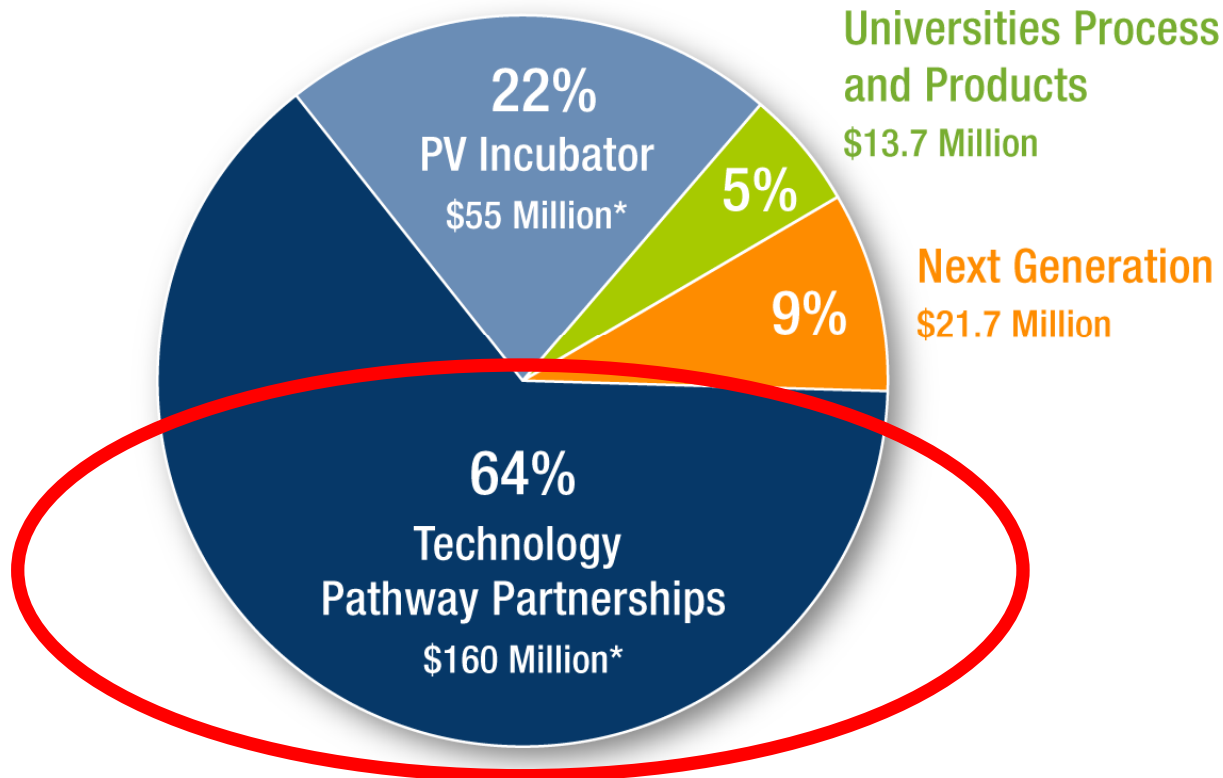


* Numbers shown are based upon successful completion of performance milestones.

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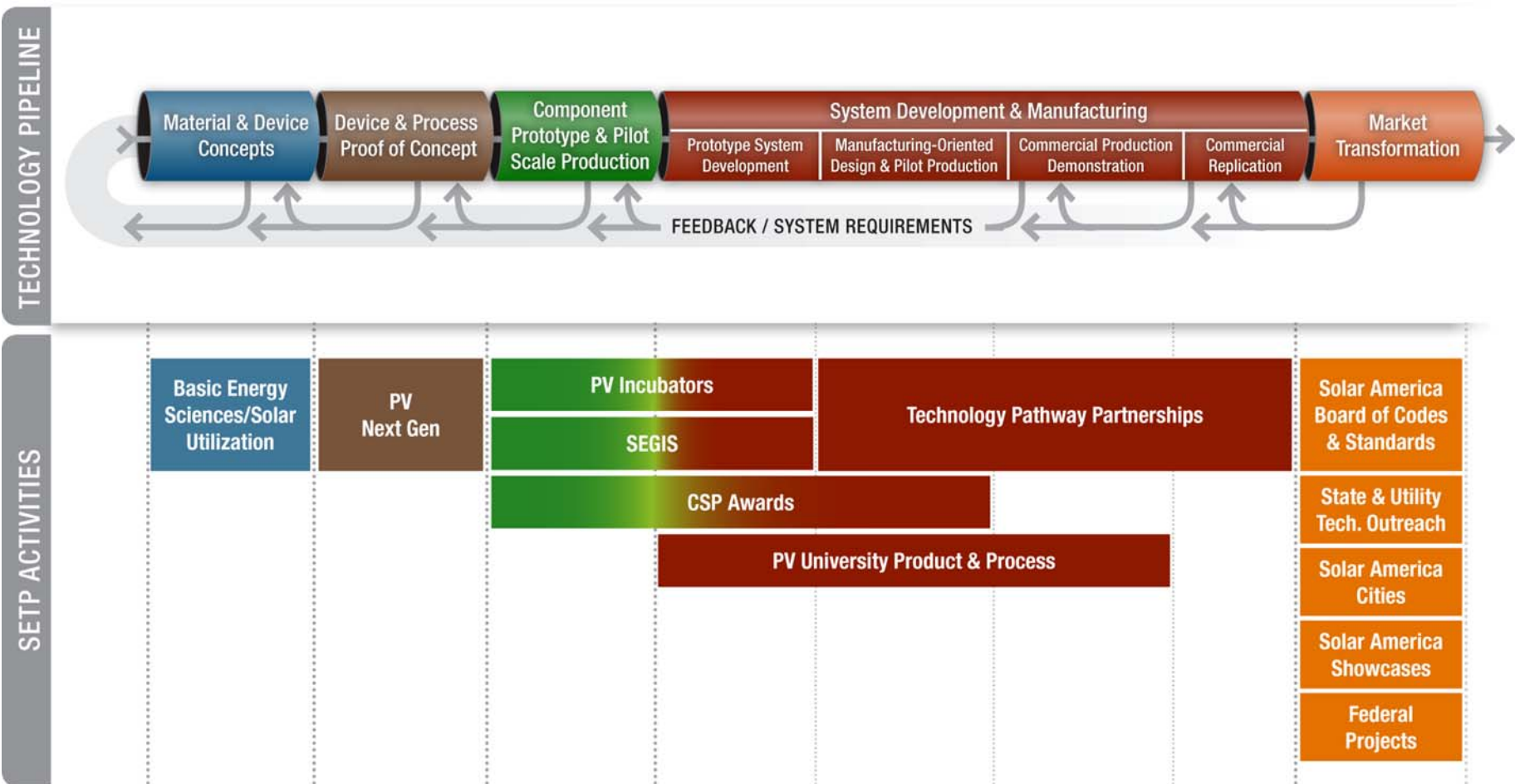


New R&D Investments in Companies and Universities Under SAI



* Numbers shown are based upon successful completion of performance milestones.

SETP works along the whole RDD&D pipeline



FY 2007 brought many fruitful partnerships.



City of Pittsburgh



Smithsonian Institution



Massachusetts Institute of Technology



BLUE SQUARE ENERGY



CH2MHILL



SUNPOWER



CITY OF NEW ORLEANS



SOLARIA

Congratulations for FY 2007 Achievements



- Launching of TPPs and Incubator Awards
- Establishment of Market Transformation Activities

- Resurgence of CSP
- Opening of Process Development & Integration Lab

Our Work is of Critical Importance

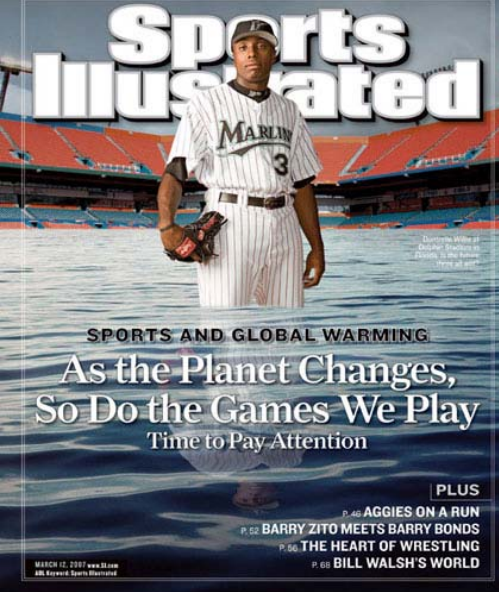


“Energy security and climate change are two of the great challenges of our time.”

*- President Bush,
Major Economies
Meeting, Sept. 2007*



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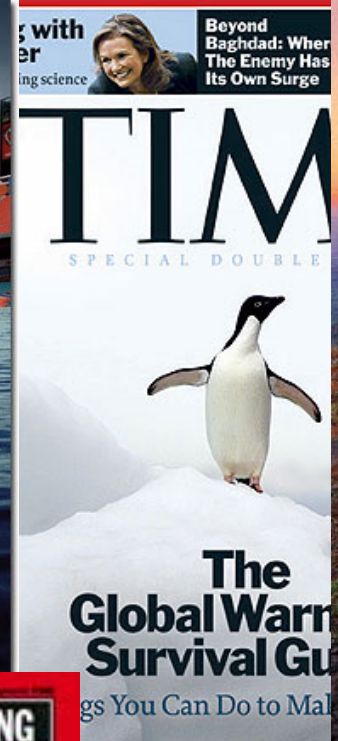


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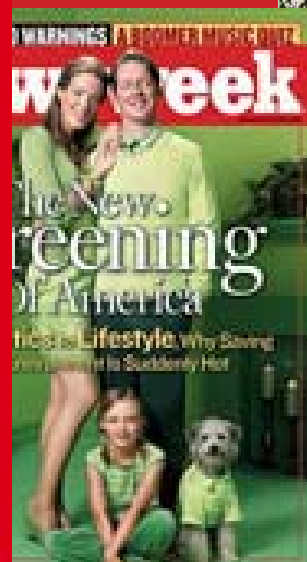
SPECIAL REPORT GLOBAL WARMING

TIME

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THE CLIMATE CRUADERS



WARMINGS | **THE GREENING OF AMERICA**

week

The New Greening of America
High-Lifestyle, who? Saving the planet is no Suddenlly Hot



The New York Times Magazine

The Greening of Geopolitics



GLOBAL WARMING

Climbing temperatures. Melting glaciers. Rising seas. All over the earth we're feeling the heat. Why isn't Washington?



All parts of the value chain contribute to success of the SAI mission – all roles are essential

- ▣ Raw material resource assessments
- ▣ Materials research
- ▣ Basic science research
- ▣ Applied research & development
- ▣ Process improvement
- ▣ Device characterization
- ▣ Materials testing
- ▣ Component development
- ▣ Electronics engineering
- ▣ System optimization
- ▣ Theoretical physics
- ▣ Policy development
- ▣ Economic research
- ▣ Cost modeling
- ▣ Module production
- ▣ Sales optimization
- ▣ Resource assessments
- ▣ City and local efforts
- ▣ International collaboration
- ▣ Codes & standards development
- ▣ Financing innovation

A few items to think about here in Austin



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- **How can we improve the connections between**
 - **Basic research efforts**
 - **Applied research efforts**
 - **Commercialization**

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- **How can we improve the connections between**
 - **Basic research efforts**
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- **Storage**
 - **Distributed PV**
 - **Centralized CSP**



For More Information:

DOE Solar America Initiative: http://www.eere.energy.gov/solar/solar_america/

SNL PV Systems R&D: www.sandia.gov/pv

NREL Solar Research: www.nrel.gov/solar

DOE/NREL PV Value Clearinghouse: www.nrel.gov/analysis/pvclearinghouse/

Sign up for our Newsletter and Market Analysis: Send email to solar@ee.doe.gov

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