

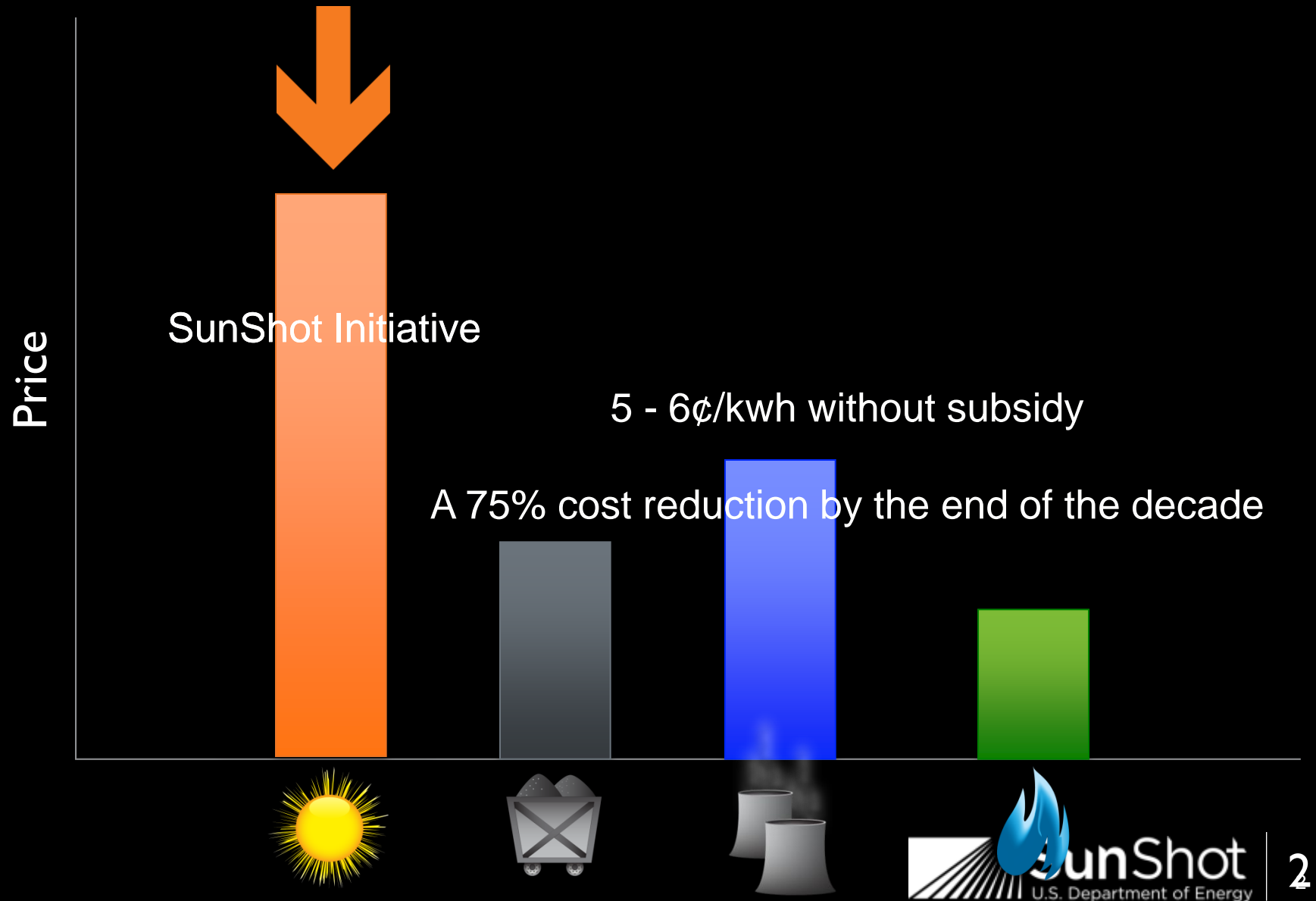


**SunShot**  
U.S. Department of Energy



**National Academies:  
Revitalizing American Manufacturing  
Competitiveness**

# So what is the SunShot Initiative?

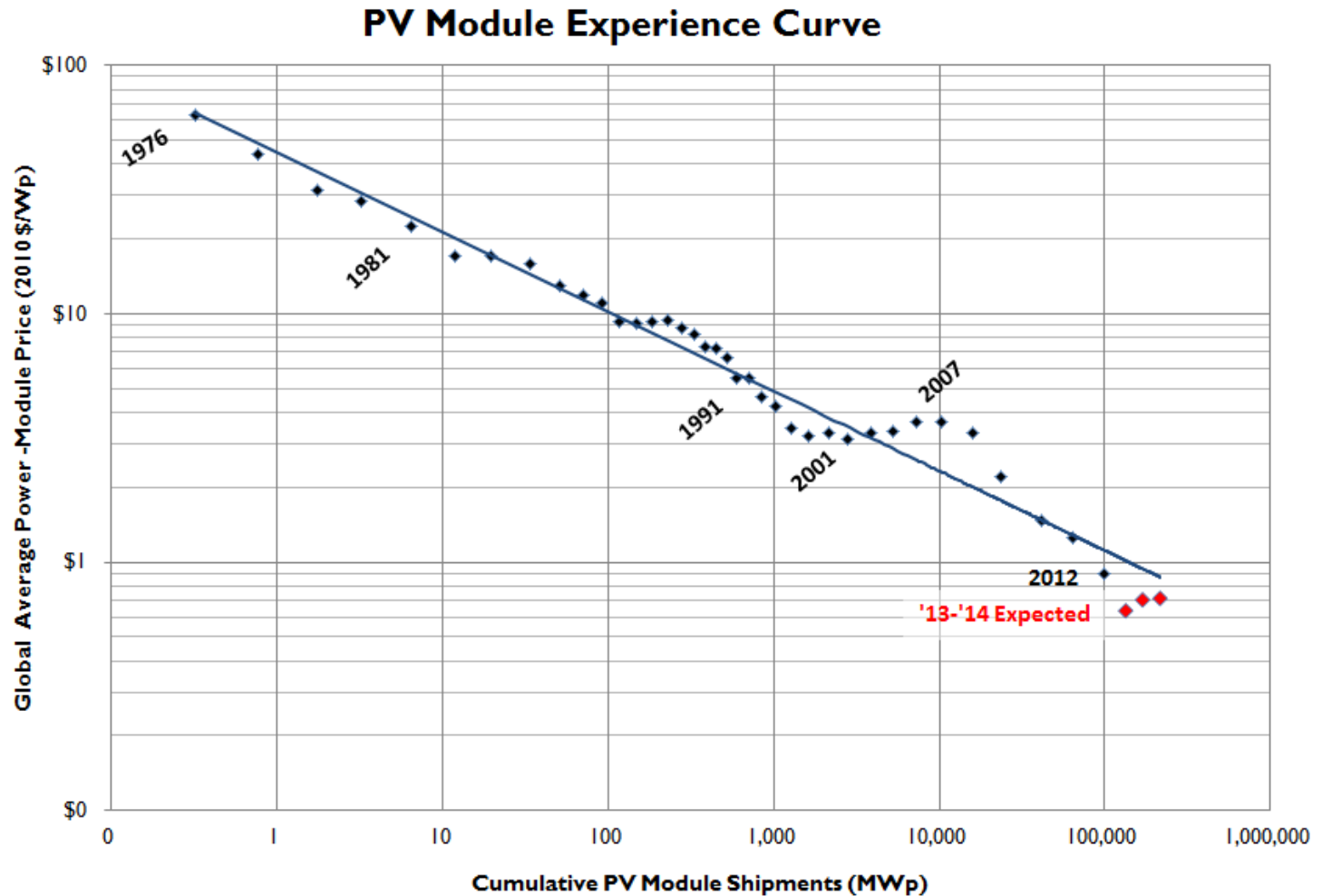


**PV Systems would need to  
sell for \$1/W**

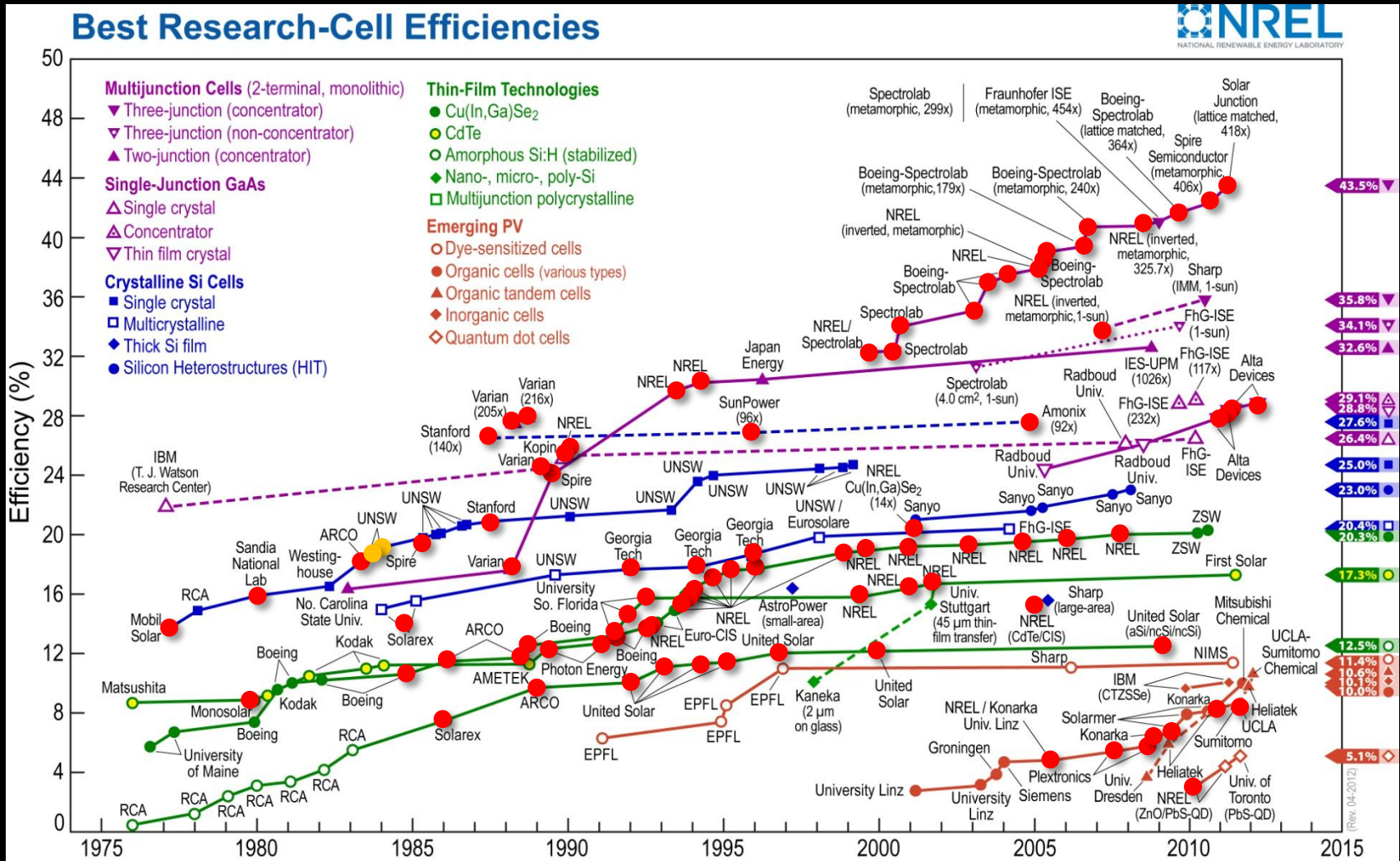
**(Modules \$0.50/W)**

# Where have costs been?

# PV Module Prices

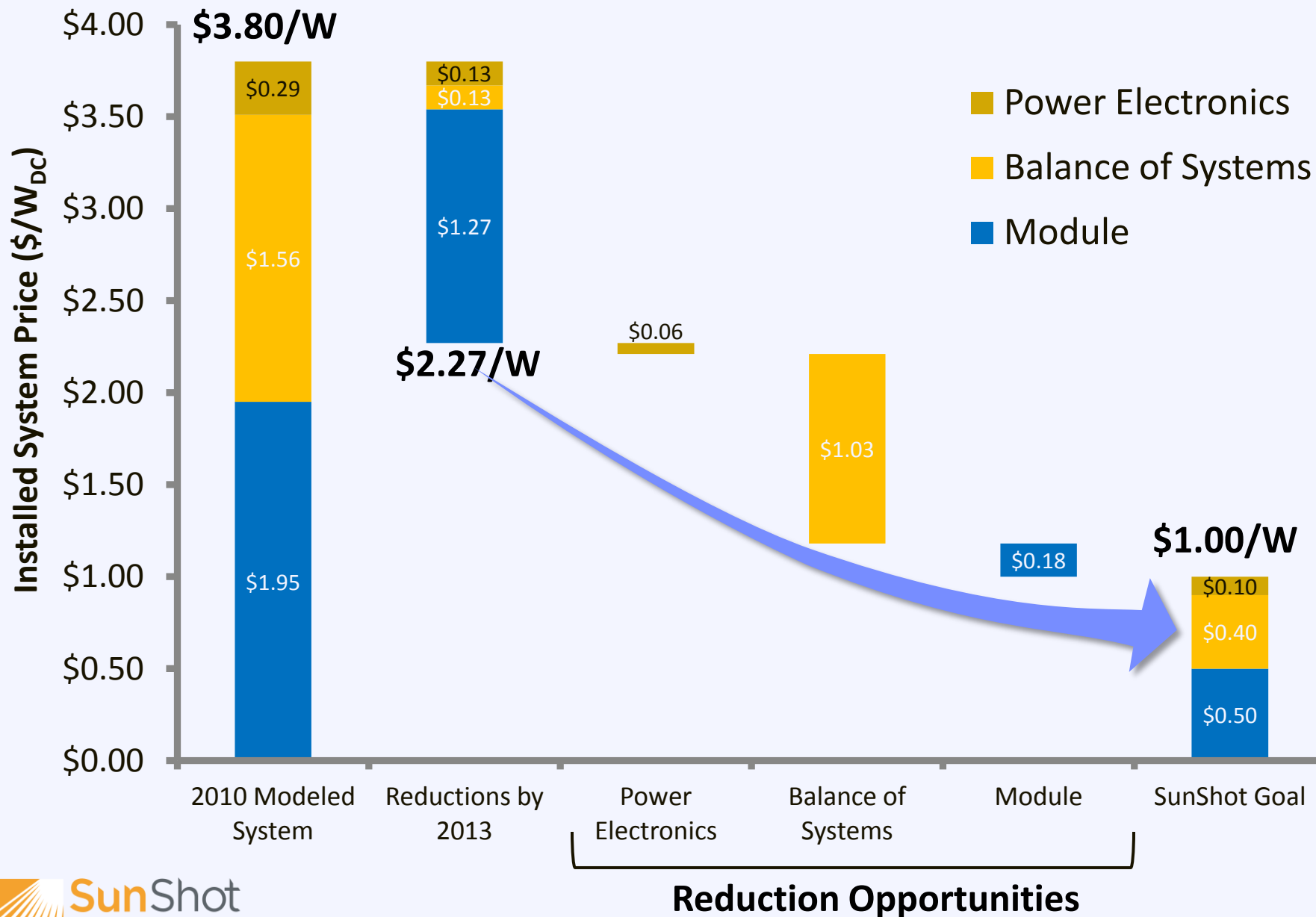


# World Record Cell Efficiencies

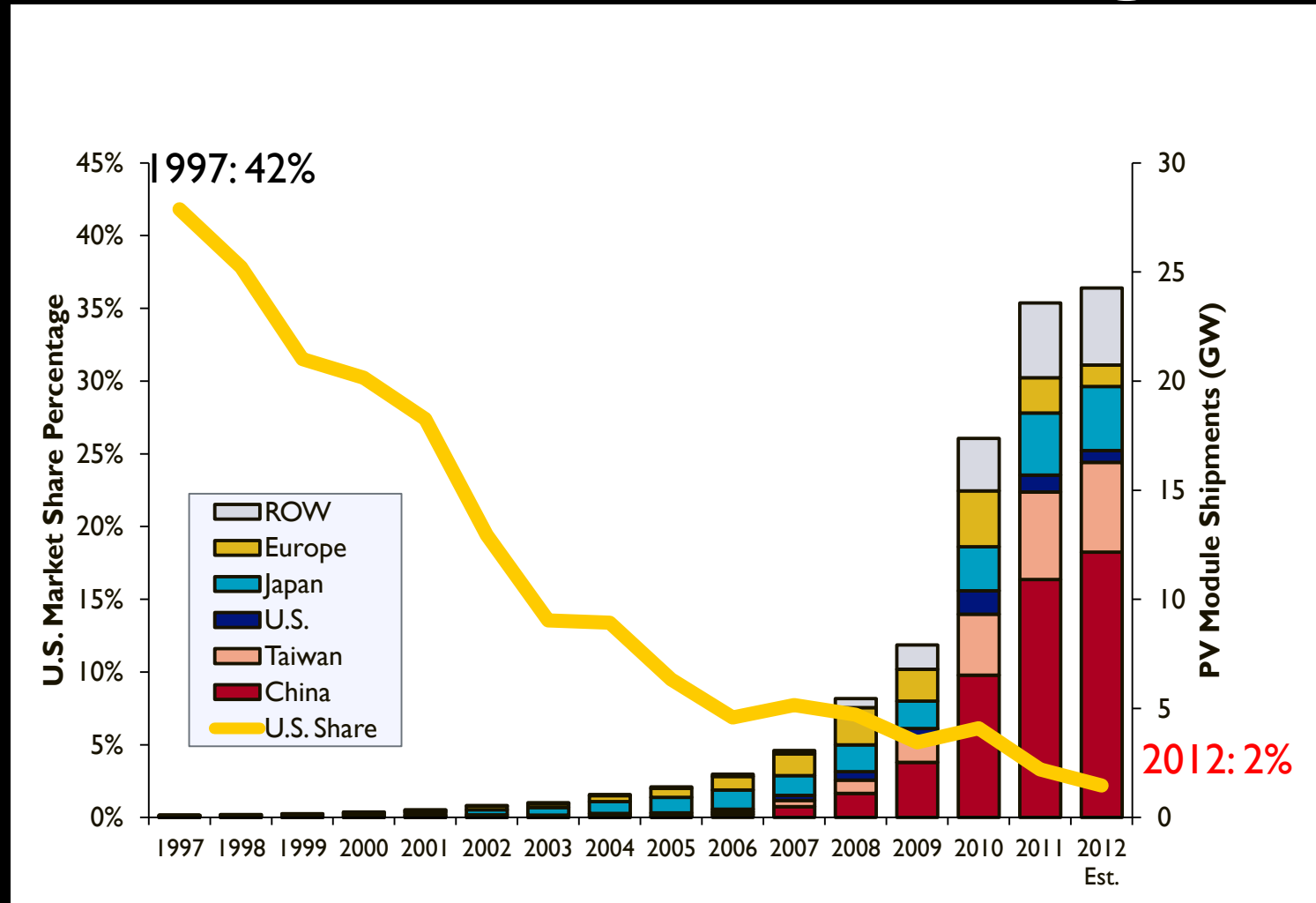


- ~50% of the world record cell efficiencies from 1975-2011 were made by researchers supported by the DOE

# SunShot Utility Scale Progress by Q42012

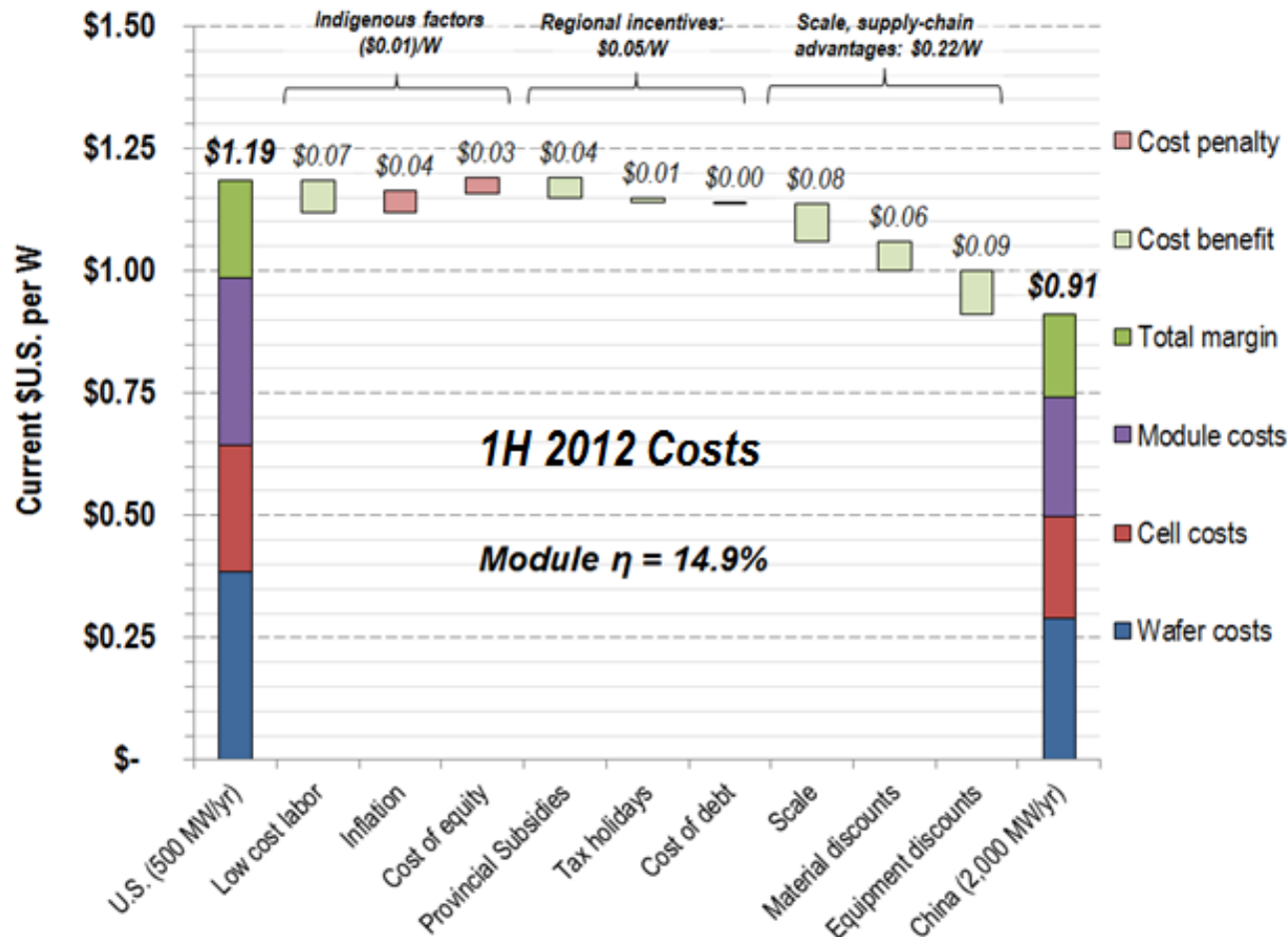


# Erosion of Domestic PV cell and Module Manufacturing





## Silicon PV: Comparative Cost Assessment

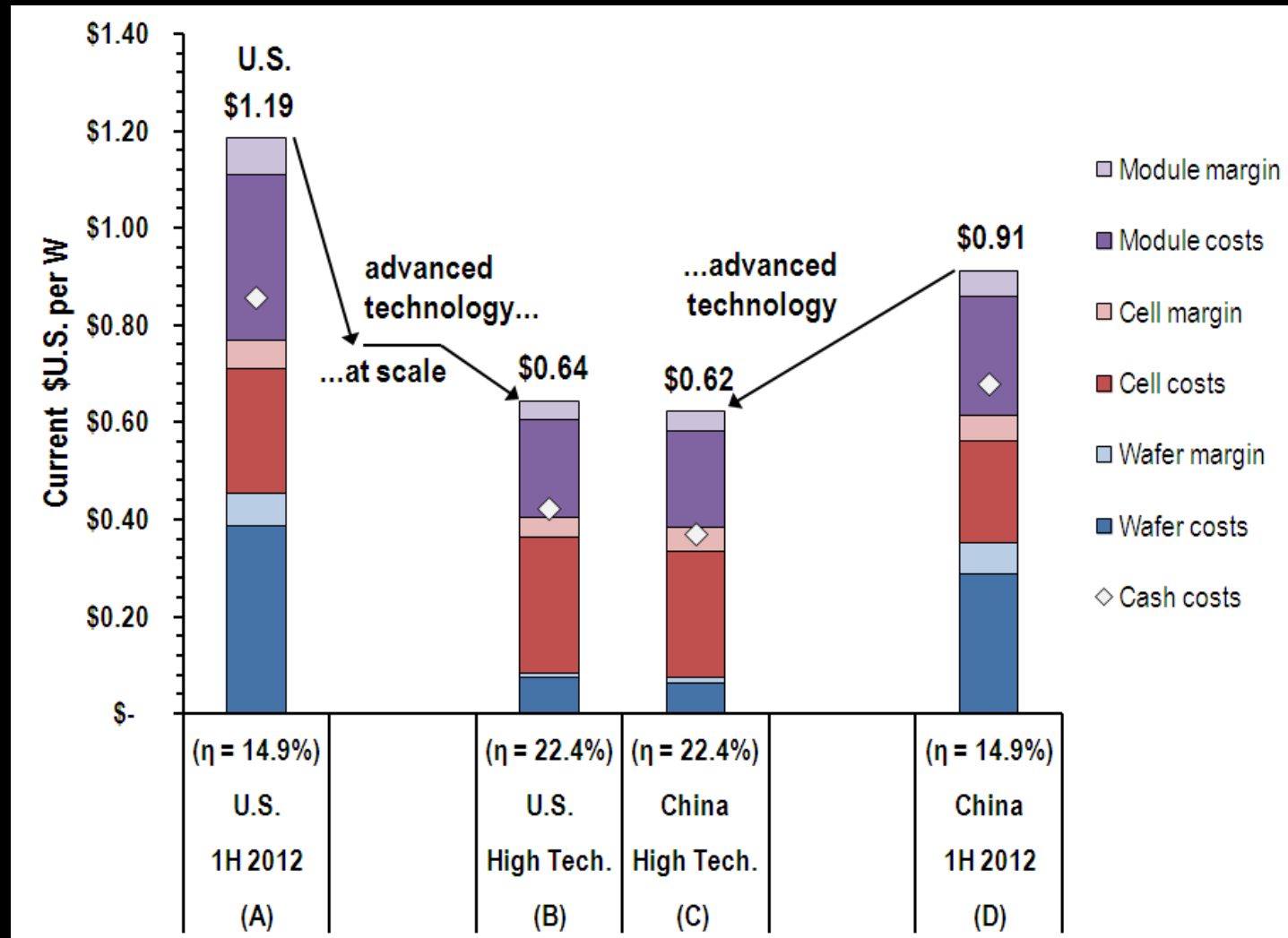


Source: Original Clean Energy Manufacturing Initiative – SunShot research

Goodrich, A.; Buonassisi, T.; Powell, D.; James, T. "Assessing the Drivers of Regional Trends in Solar Photovoltaic Manufacturing", E&ES (submitted), October 2012.

NREL chart using data from Mints, P.; Donnelly, J. (2011). "Photovoltaic Manufacturer Shipments, Capacity and Competitive Analysis 2010/2011." Report NPS-Supply 6, Navigant Solar Services Program. Palo Alto, CA.

# Innovation can close the cost gap



# Announcing: Clean Energy Manufacturing Initiative



March 26

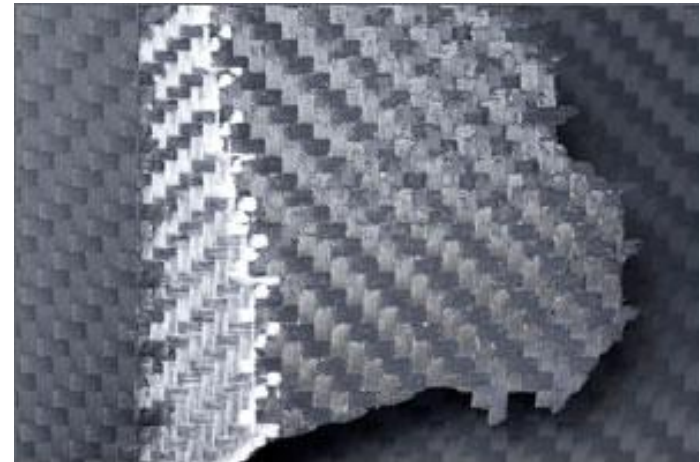
Official launch of the  
***Clean Energy Manufacturing Initiative***

Opening of the  
***DOE Carbon Fiber Technology Facility***  
A part of DOE's  
***Manufacturing Demonstration Facility***  
At ORNL

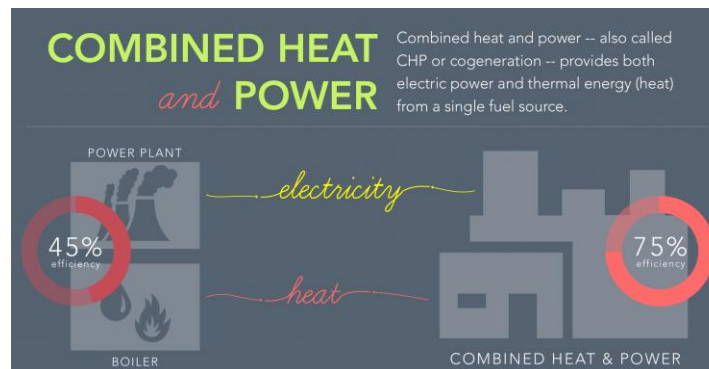


# Clean Energy Manufacturing *Initiative*

1. Increase U.S. competitiveness in the production of clean energy products
  - *Invest in competitive advantages, overcome competitive disadvantages*

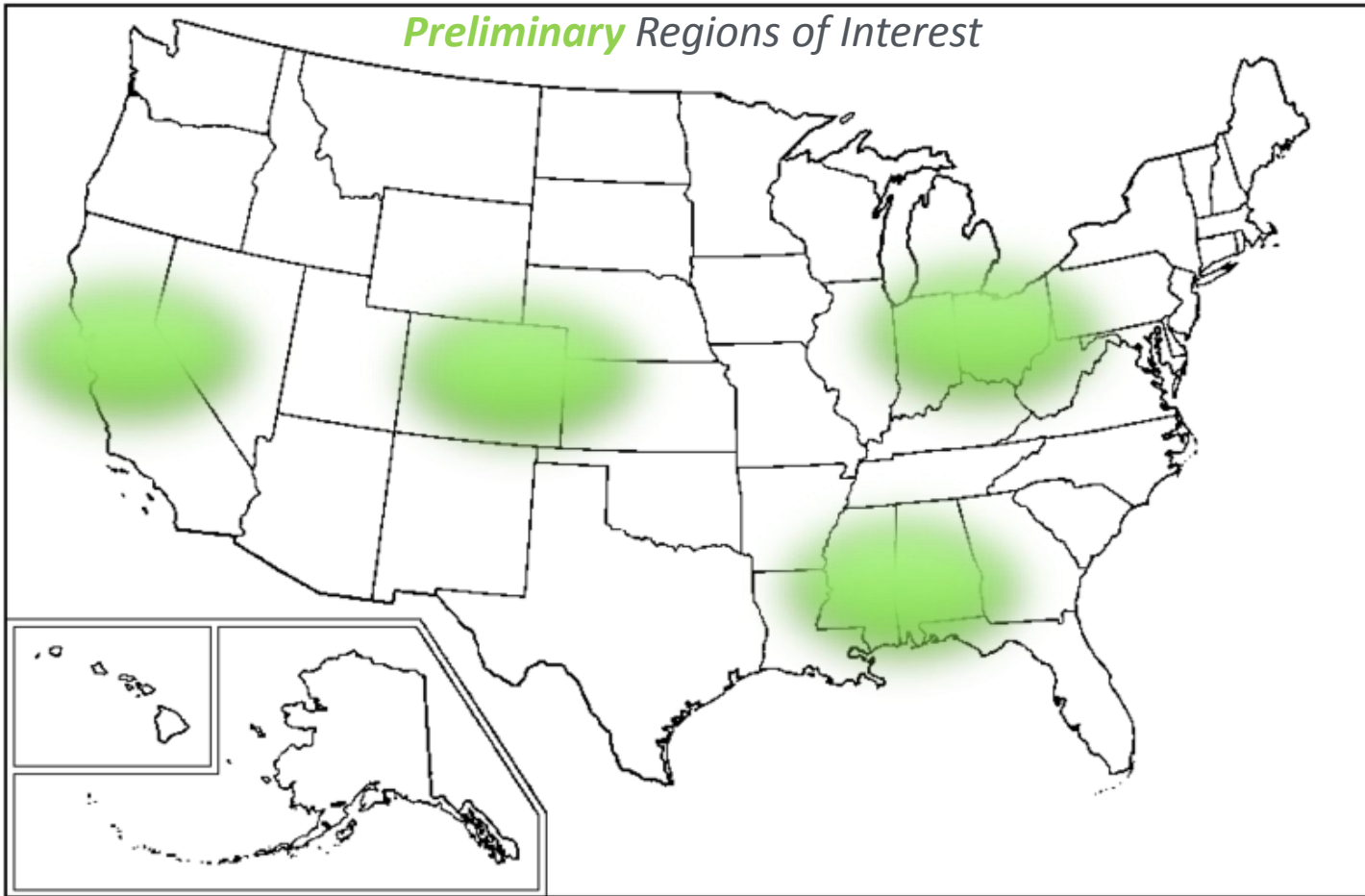


2. Increase U.S. manufacturing competitiveness across the board by increasing energy productivity
  - *Enhancing competitiveness of US companies*





## Regional Summits



State & Metro  
Policy Analysis

**Gather Input**

Cluster Assessment

A dark blue world map with glowing yellow and white city lights, primarily concentrated in North America, Europe, and East Asia.

# Thank You

Minh Le  
Director  
SunShot Initiative

U.S. DEPARTMENT OF  
**ENERGY**