

# **Mobilizing for a Solar Future**

U.S. Rep. Gabrielle Giffords (AZ-08)

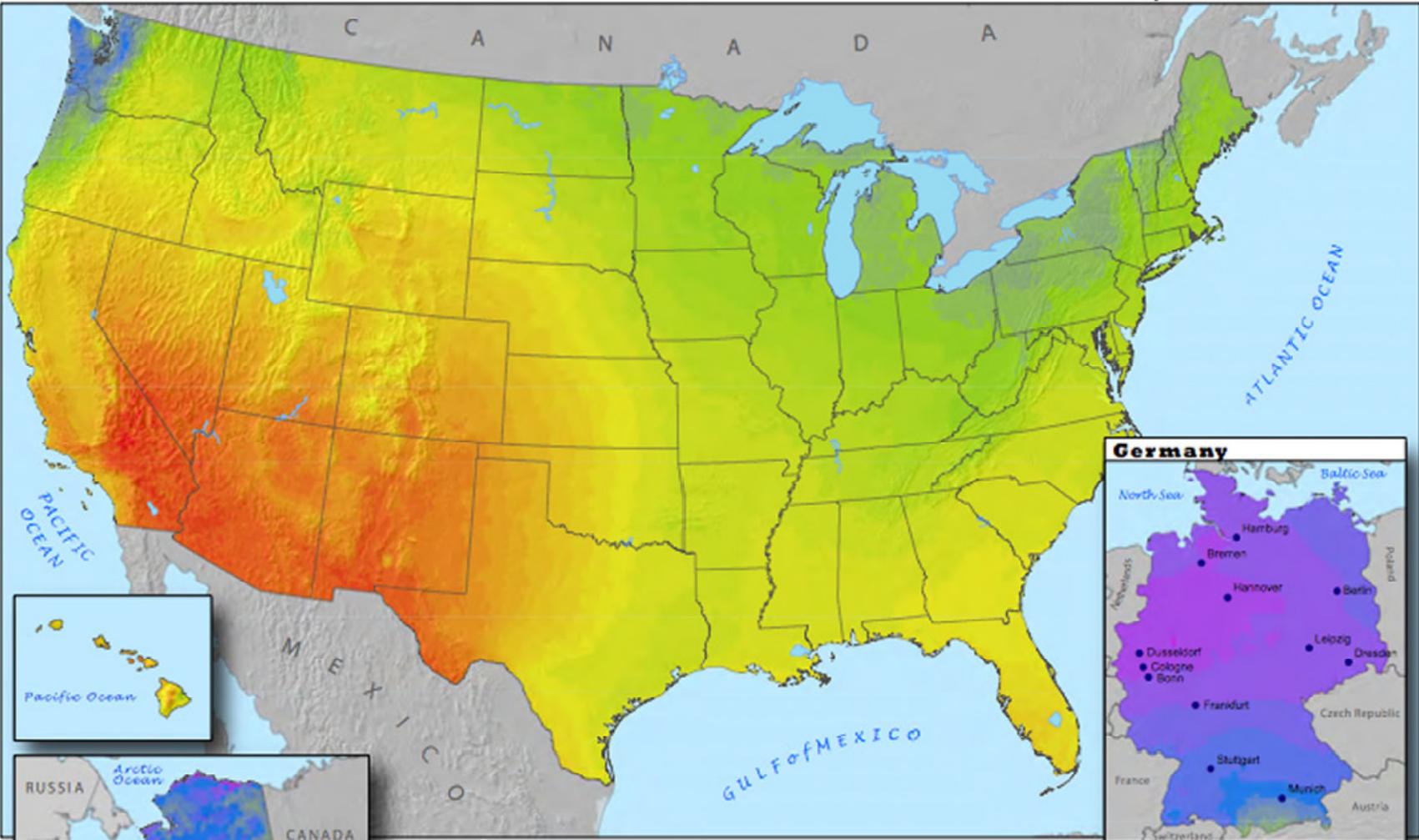
for

The National Academy of Sciences



# Sonoran Desert

# Solar Resources : United States and Germany



Annual average solar resource data are for a solar collector oriented toward the south at a tilt = local latitude. The data for Hawaii and the 48 contiguous states are derived from a model developed at SUNY/Albany using geostationary weather satellite data for the period 1998-2005. The data for Alaska are derived from a 40-km satellite and surface cloud cover database for the period 1985-1991 (NREL, 2003). The data for Germany were acquired from the Joint Research Centre of the European Commission and is the yearly sum of global irradiation on an optimally-inclined surface for the period 1981-1990.



This map was produced by the National Renewable Energy Laboratory for the U.S. Department of Energy, May 30, 2006

# Serious Global Challenges



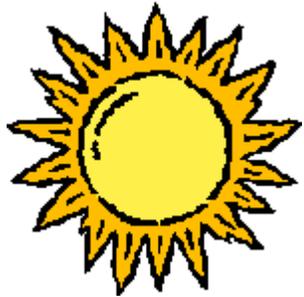
**FOREIGN ENERGY DEPENDENCE**



**ECONOMIC DECLINE**

**CLIMATE CHANGE**





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**SOLUTION**



**ENERGY  
INDEPENDENCE**



**SECURITY &  
PROSPERITY**

**ECONOMIC  
COMPETITIVENESS**

**STABLE  
CLIMATE**



# The Washington Post

## Asian Nations Could Outpace U.S. in Developing Clean Energy

American Markets' Slump Feeds Worry

By Steven Mufson  
Washington Post Staff Writer  
Thursday, July 16, 2009



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## Europe solar groups look to rising Asia for answers

Mon Jul 27, 2009 12:49pm EDT

By [Christoph Steitz](#) and [Leonora Walet](#) - Analysis



# Harvard Business Review

## Restoring American Competitiveness

by *Gary P. Pisano* and *Willy C. Shih*

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Decades of outsourcing manufacturing has left U.S. industry without the means to invent the next generation of high-tech products that are key to rebuilding its economy

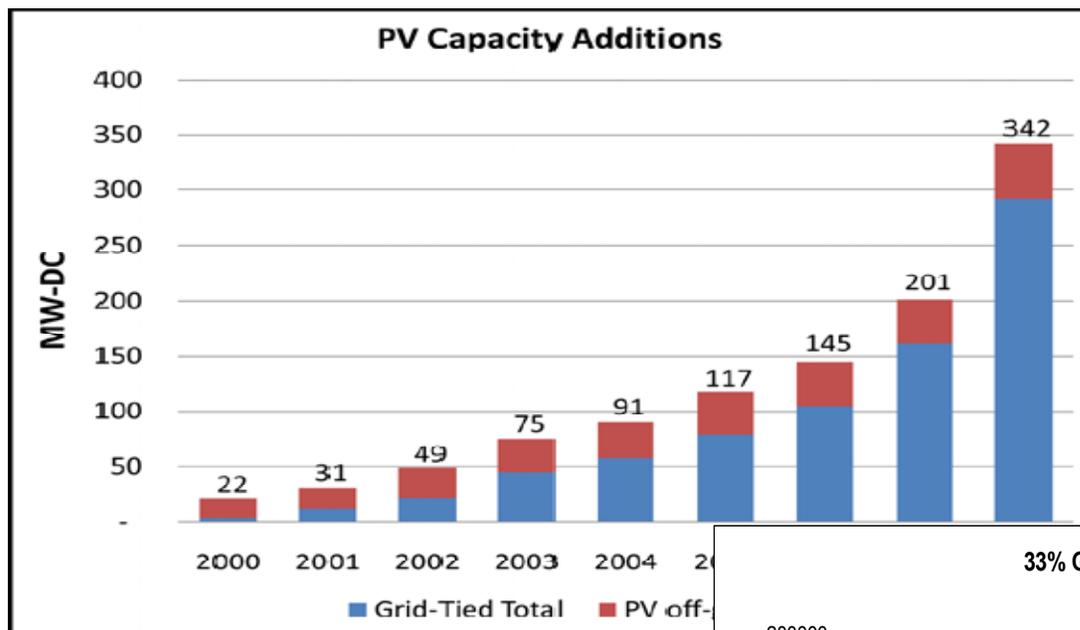
## The New York Times

July 14, 2009

## China Builds High Wall to Guard Energy Industry

By [KEITH BRADSHER](#)

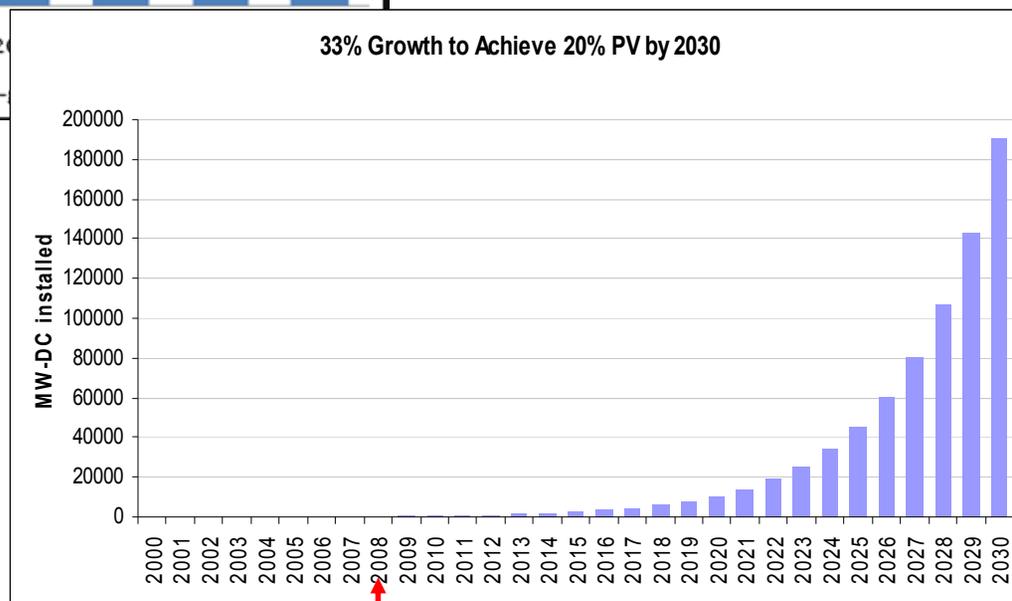
# Logistical Challenges



Solar is growing fast...  
but we have a long way  
to go!

20% of U.S. peak power  
= 150GW

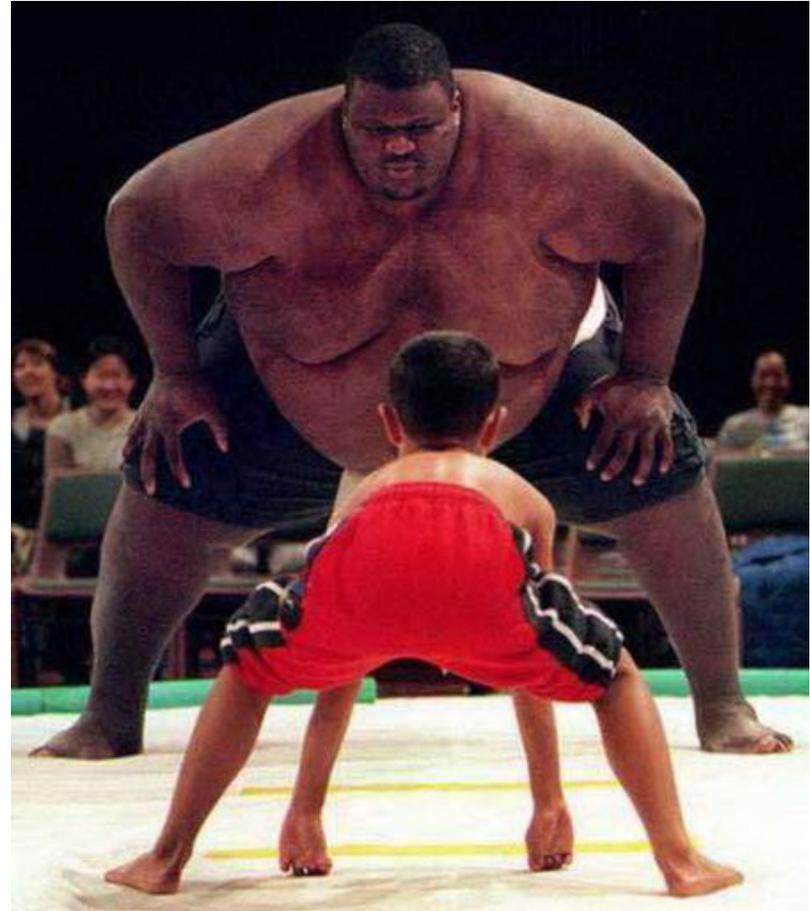
To do that with PV will  
require over 2,200 times  
all the PV installed in 2008



# Political Challenges

Traditional energy interests dominate the debate and skew policy in their favor.

Renewable energy lobbyists are outnumbered **10 to 1** by traditional energy interests.



Source: The Center for Public Integrity  
[http://www.publicintegrity.org/investigations/climate\\_change/](http://www.publicintegrity.org/investigations/climate_change/)

# Lobbying Expenditures in 1<sup>st</sup> Quarter of 2009



American Petroleum Inst. = \$1.9M

BP = \$3.6M

Marathon Oil = \$3.4M

ConocoPhillips = \$5.9M

Chevron = \$7.0M

ExxonMobil = \$9.6M

American Wind Energy Assoc (AWEA) = \$1.60 M

**Solar Energy Industry Assoc (SEIA) = \$0.41 M**

American Coalition for  
Clean Coal Energy (ACCCE)  
Annual budget = \$45M

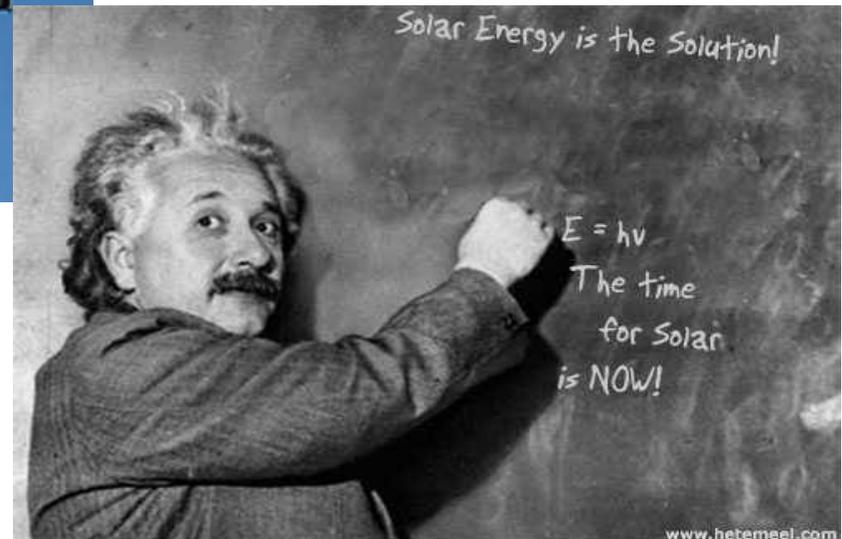


We need to...  
**Organize,**



**Advertise,**

**and Educate.**



# Congressional Office Activities



## Solar 101

- Community solar education series
- Partnership with Pima County Library
- 23 sessions held since Nov. 2007
- Min. 50 participants per session, often more

## Solar Hot Team

- Weekly info sharing conference call
- Solar leaders from across Arizona
- Removes obstacles, promotes teamwork

## Legislation:

### 110<sup>th</sup> Congress:

- Solar Energy Research and Advancement Act of 2007 ([H.R.2774](#))
- Renewable Energy Assistance Act of 2007 ([H.R. 3807](#))

### 111<sup>th</sup> Congress:

- Revision of Federal Contracting Rules for Solar Power (H.R. 175)
- Solar Stimulus for Job Creation and Energy Independence Act (H.R. 546)
- Solar Manufacturing Advancement Act of 2009 (H.R. 576)
- Amendment to H.R. 2454 ACES (Federal RPS; Extended Contracting)
- Solar Energy R&D Reauthorization (in development)



A photograph of a desert landscape at sunset. The sky is filled with vibrant orange, red, and blue clouds. In the foreground, the silhouettes of saguaro cacti are visible against the bright horizon. The overall scene is a classic representation of the Arizona desert.

# Thank You!

U.S. Rep. Gabrielle Giffords (AZ-08)  
Office: (202) 225-2542