

National Center for Photovoltaics

- Solar Energy Research Institute (1974)
- Begins operation in (1977)
- Reagan cuts budget by 90%



SERI

- SERI becomes National Lab (1991)
- National Renewable Energy Lab (NREL)



NREL

- National Center for Photovoltaics (NCPV) established in 1996



NCPV



NCPV Charter

The National Center for Photovoltaics (NCPV) focuses on innovations in PV technology that drive industry growth in U.S. photovoltaic manufacturing.

The NCPV is directed to use the resources and capabilities of the national labs and universities for the benefit of the U.S. PV industry.

The NCPV was created to enhance communication, catalyze strategic partnerships, and serve the PV industry a the place to come to access the wealth of knowledge and facilities within the DOE system.

The NCPV charge is to accelerate PV as a viable energy option in the U.S.



National Renewable Energy Laboratory
Innovation for Our Energy Future

The logo for the Alliance for Sustainable Energy, LLC, featuring a large, flowing green swoosh that frames the text.

**Alliance for Sustainable
Energy, LLC**

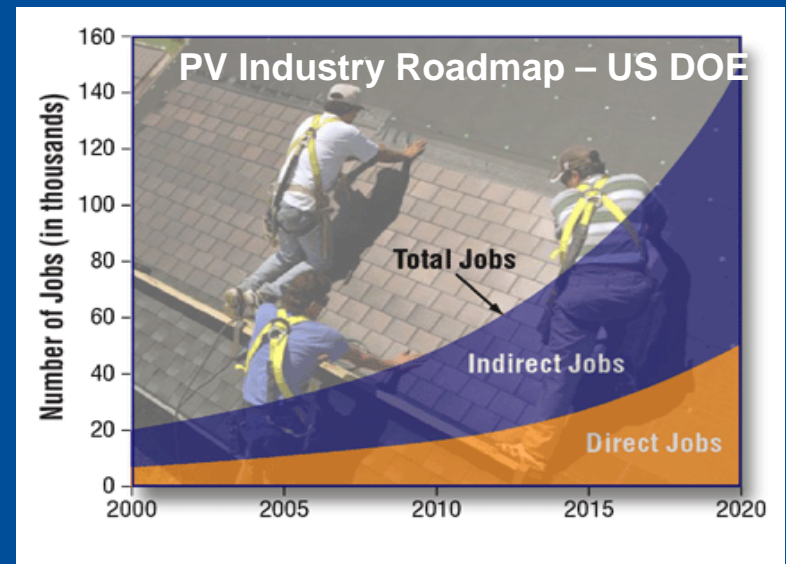
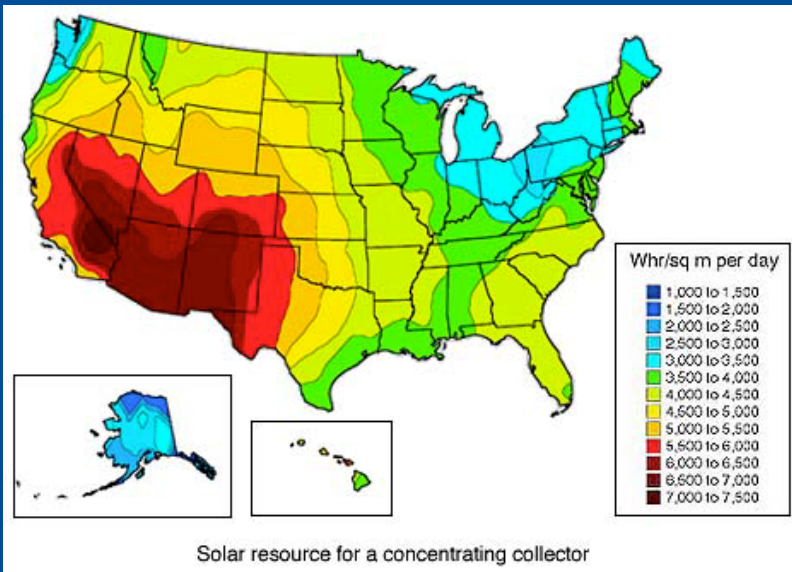


Battelle
The Business of Innovation

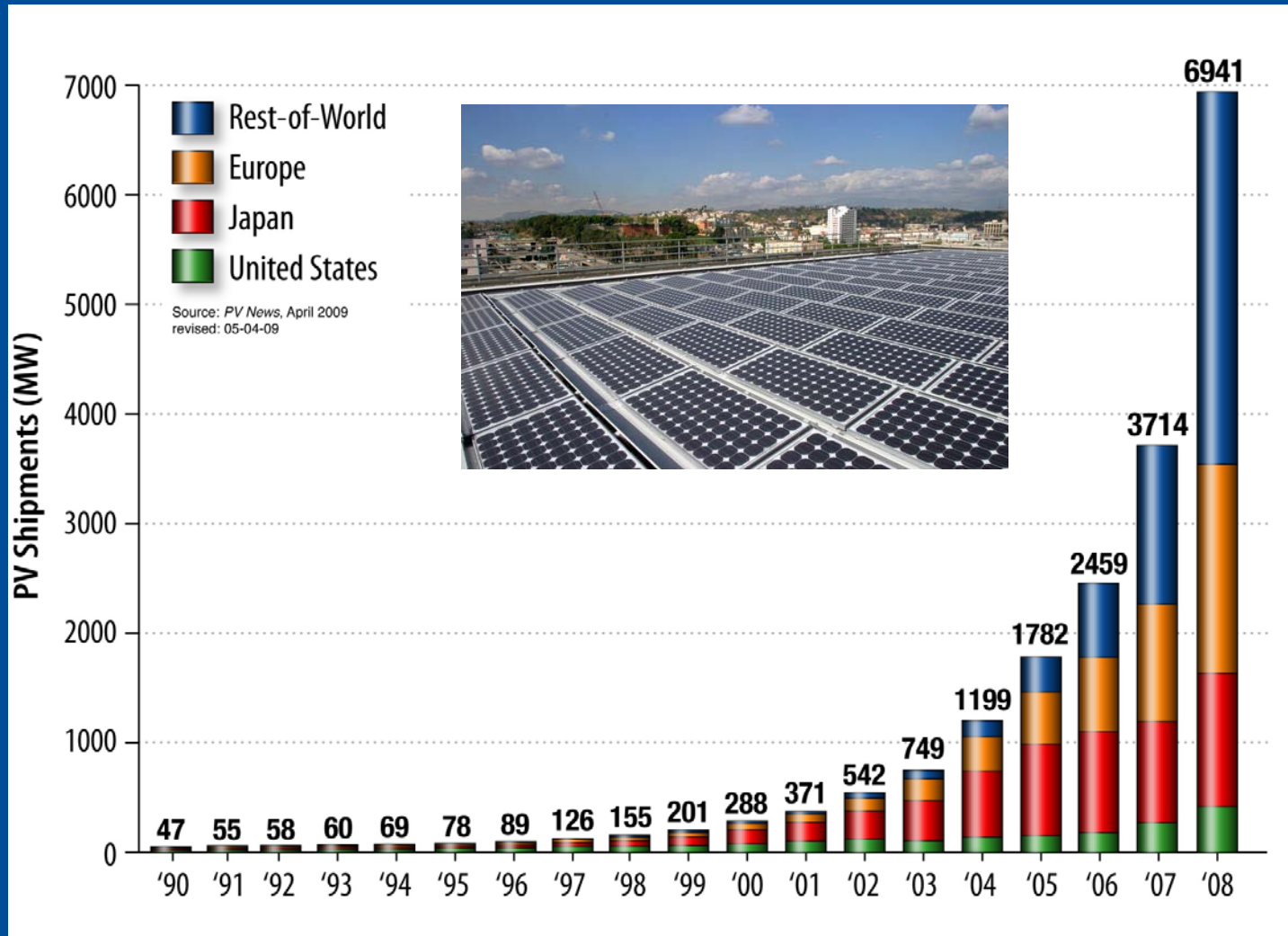
In October 2008, the Alliance for Sustainable Energy was awarded the contract to manage NREL

PV Opportunities in the U.S.

- The US has the largest solar resource of any industrialized country in the world.
- Developing the technology and industrial base to harness this resource is the key to the transformation “green economy” and the US economic recovery.

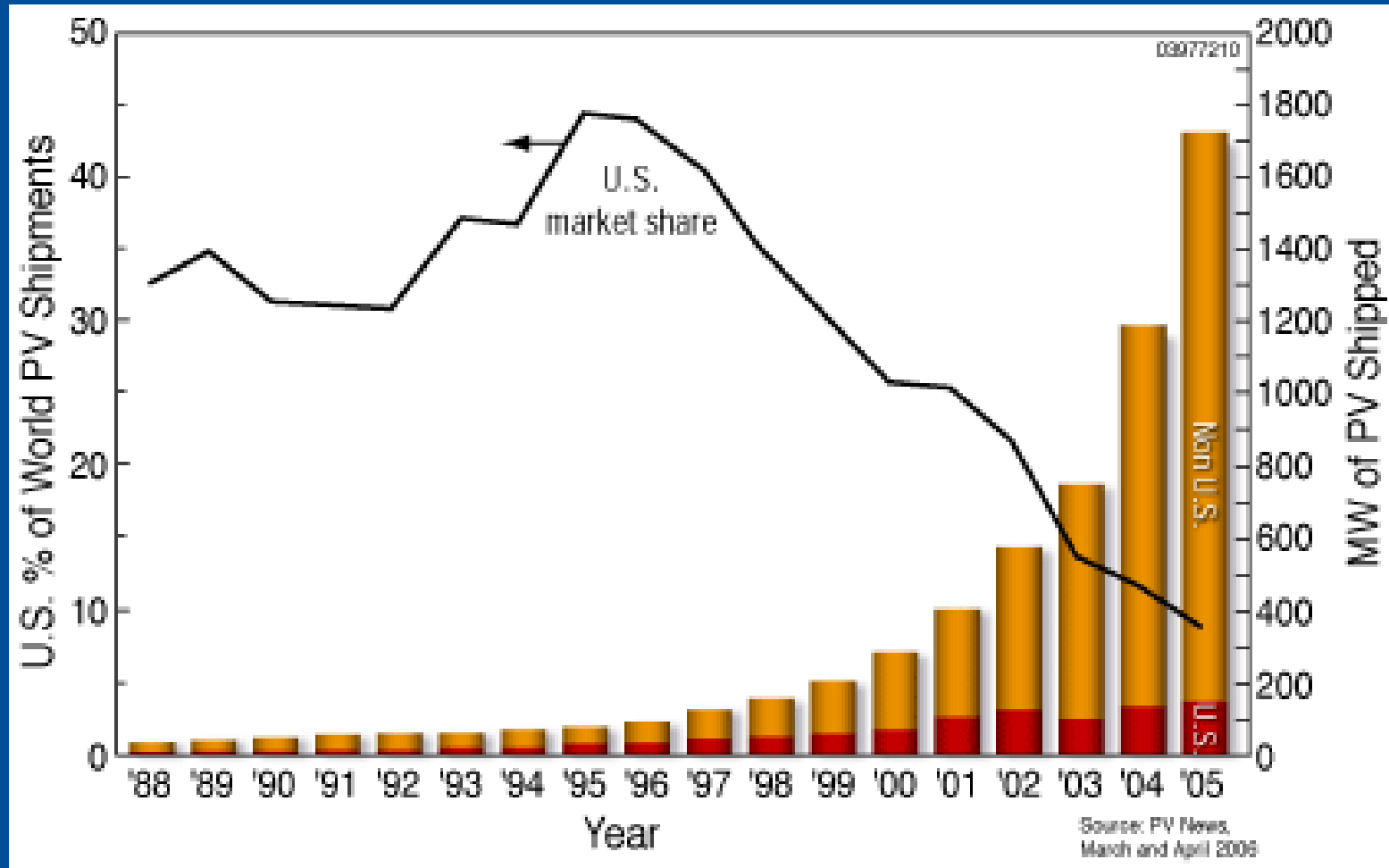


Growth of Global PV Industry





US PV Market Share

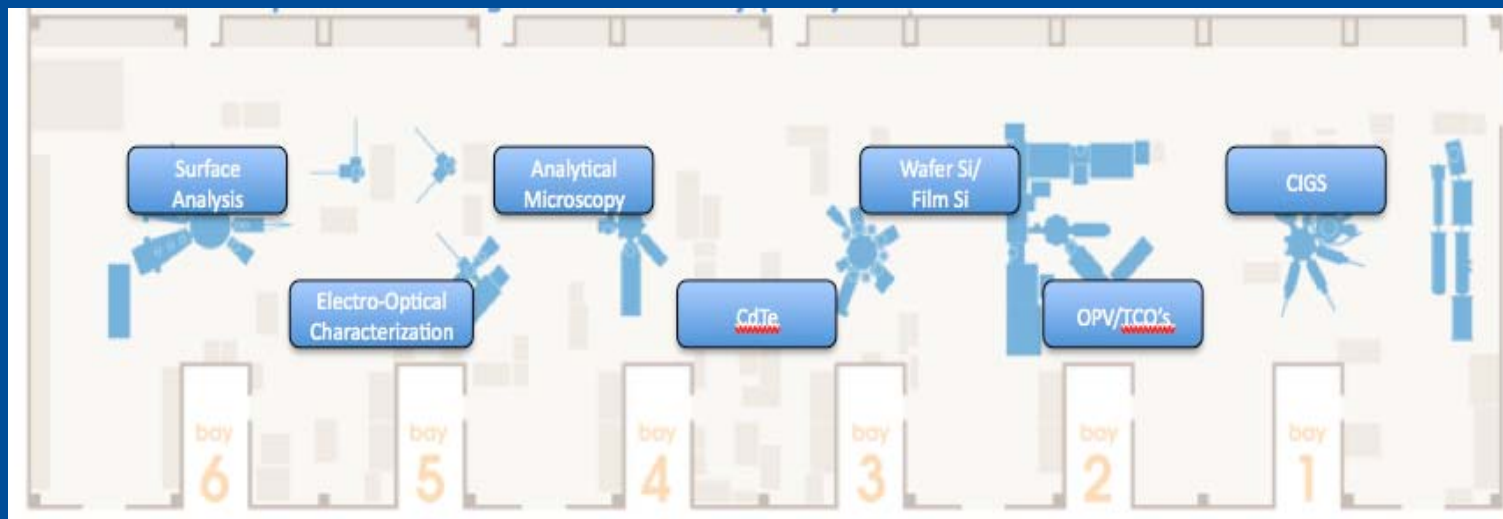




National Center for Photovoltaics
Helping to Make PV the Power of Choice



Process Development and Integration Laboratory (PDIL)





Working with the NCPV

Incubator

New Pre-Incubator

Technology Pathway Partnerships

PV Supply Chain

Future Generation Program

PV Manufacturing Initiative

TPPs

Ammonix
Sunpower
Soliant
General Electric
Konarka
Nanosolar
BP Solar
Greenray
Unisolar
Dow Chemical

Ind. CRADAs

Plextronics
SiXtron
Corning/Varian

Incubator

Calsiolar
Sol Focus
MicroLink Devices
SoloPower
Primestar
AVA Solar
Plextronics
Innovalight
Spire Solar
Solexel
1366 Technologies
Solasta
Skyline

Pre-Incubator

Banyan Energy
Crystal Solar
ISET
TiSol
Ascent Solar Technologies
EPIR Technologies
MicroLink Devices
1366 Technologies
Lightwave Power
Vanguard Solar
Semprius
SpectraWatt
Luna Innovations

Universities

Toledo
Delaware
Florida
Arizona State
Cal Tech
RIT
MIT
Penn State
Georgia Tech
Stanford
UC Davis
CSM
Colorado
Colorado State
Illinois
Michigan
South Florida
Washington
Ohio State

Next Gen

Wakonda
Voxel
Solasta
Solexant
Soltaix
Voxel

NREL T&E

1366 Technologies
3M
AMONIX
ADCO
Advent Solar
Applied Materials
Applied Optical Sciences
BASF
BP Solar
BRP Manufacturing
Dow Chemical
CaliSolar
Dupont
First Solar
GT Solar
Infoscitex
Innovalight
Konarka
NanoSolar
PrimeStar
Solar Power Industries
SolFocus
Schott Solar
Skyline Solar
Spectrolab (Boeing)
SunPower
TruSeal
Uni-Solar



NREL

National Renewable Energy Laboratory

Innovation for Our Energy Future

Welcome and have a great meeting!



Visit us online at www.nrel.gov

Operated for the U.S. Department of Energy Office of Energy Efficiency and Renewable Energy

By the Alliance for Sustainable Energy, LLC