



# The Solar Energy Technologies Office

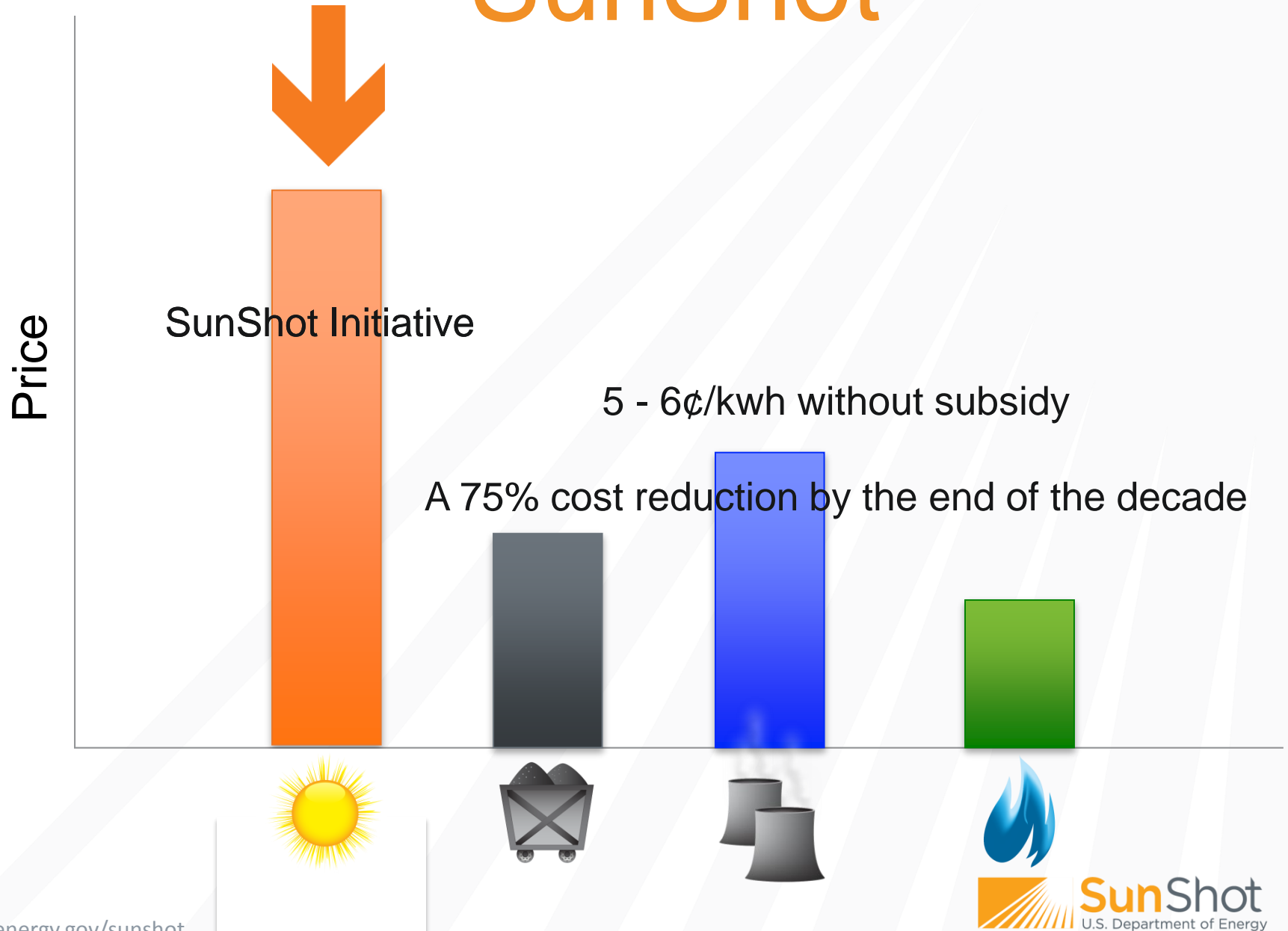
## Getting to Ubiquitous Solar

[energy.gov/sunshot](https://energy.gov/sunshot)

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Minh Le, Director  
Solar Energy Technologies Office

# SunShot



# The Right Stuff

- **Half of the Federal Workforce**
- **10 times the number of PhDs/MBA's (some with decades of industrial experience)**
- **FOAs awarded in half the time**
- **Working with community to achieve greater results**
- **3X rate of world records in the past 2 years compared to prior decade**
- **10-20% of awarded funds are redirected towards new projects**

# SunShot Initiative – Solar Grid Parity by 2020

2010

2013

2020

MAJOR PROGRESS

PRIORITY AREAS



**60% PROGRESS TOWARDS  
2020 OBJECTIVES**

# SunShot Initiative – Solar Grid Parity by 2020

2010

2013

2020

MAJOR PROGRESS

PRIORITY AREAS



**>13 GW OF SOLAR**  
**4.75 GW PV IN 2013**  
**10X GROWTH RATE**  
**FROM 2009**

# SunShot Initiative – Solar Grid Parity by 2020

2010

2013

2020

MAJOR PROGRESS

PRIORITY AREAS



**JOBS: 143,000**

# SunShot Initiative – Solar Grid Parity by 2020

2010

2013

2020

MAJOR PROGRESS

PRIORITY AREAS



**SUNSHOT INCUBATOR**  
**\$18 PRIVATE FOR**  
**EVERY \$1 PUBLIC**

# SunShot Initiative – Solar Grid Parity by 2020

2010

2013

2020

MAJOR PROGRESS

PRIORITY AREAS



# SOFT COSTS



# SunShot Initiative – Solar Grid Parity by 2020

2010

2013

2020

MAJOR PROGRESS

PRIORITY AREAS



# GRID INTEGRATION

# SunShot Initiative – Solar Grid Parity by 2020

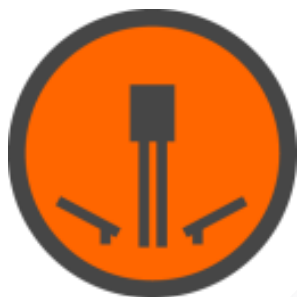
2010

2013

2020

MAJOR PROGRESS

PRIORITY AREAS



# CSP STORAGE

## s-CO<sub>2</sub>

# SunShot Initiative – Solar Grid Parity by 2020

2010

2013

2020

MAJOR PROGRESS

PRIORITY AREAS

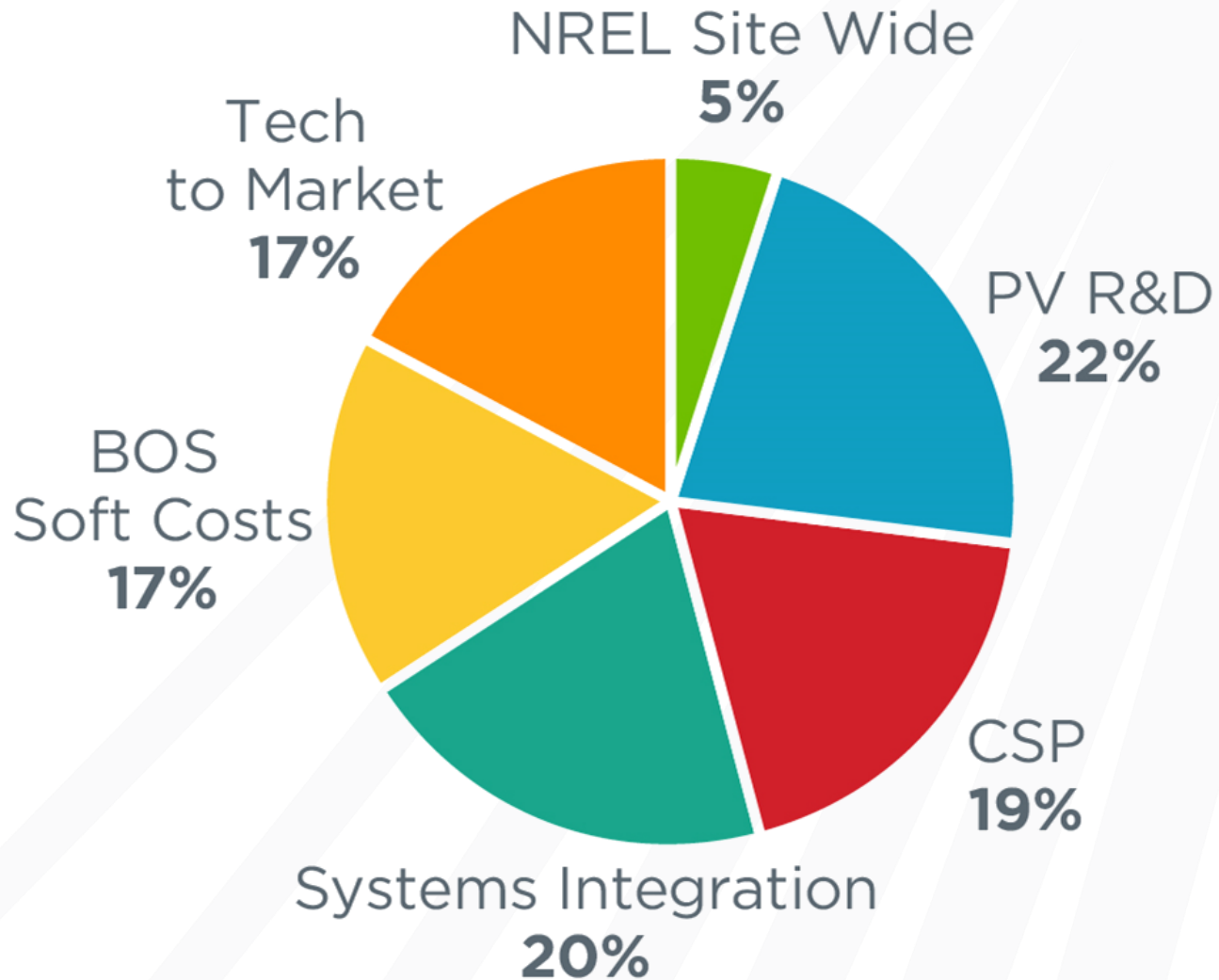


# MANUFACTURING COMPETITIVENESS

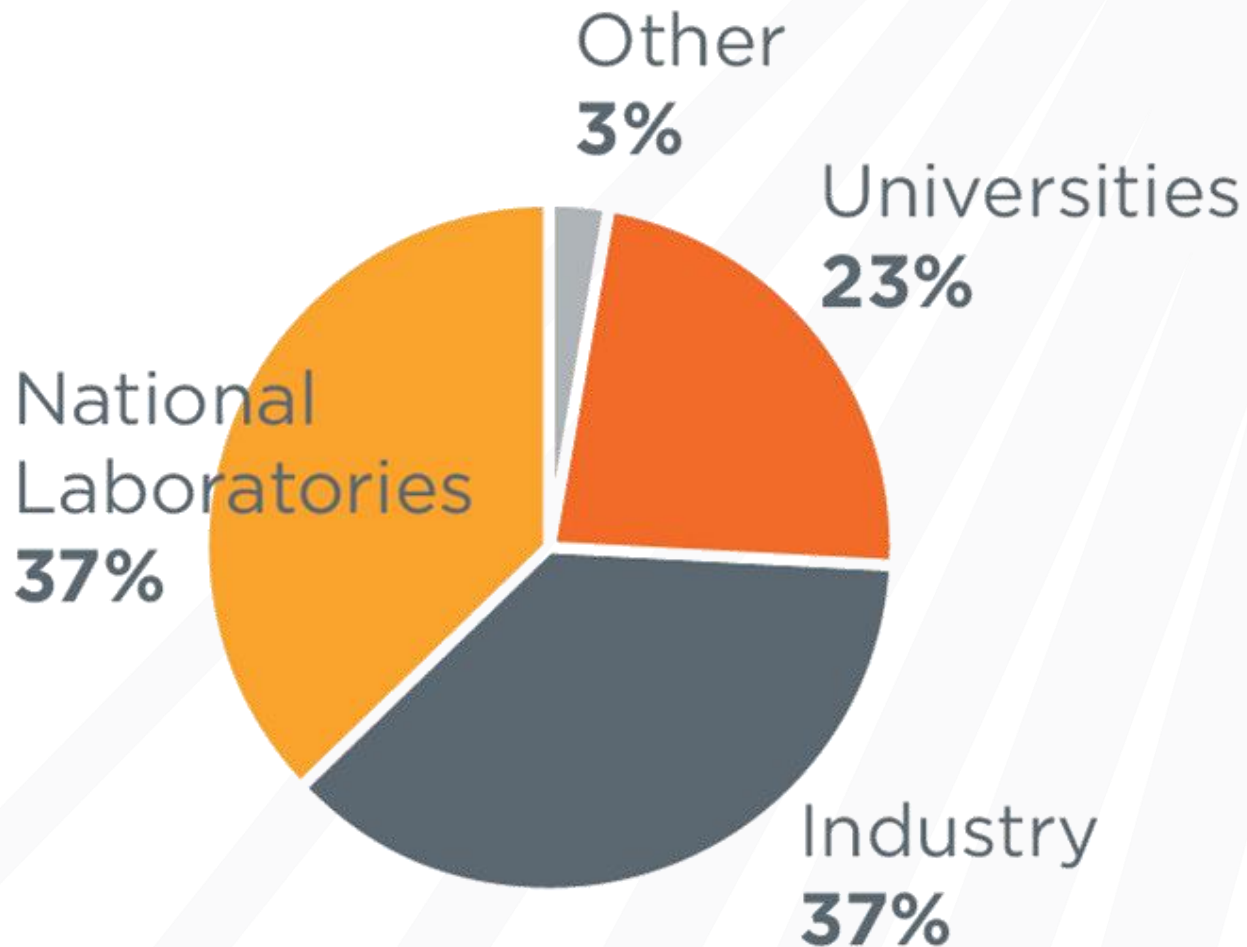
# The SunShot Portfolio



# FY14 Portfolio distribution

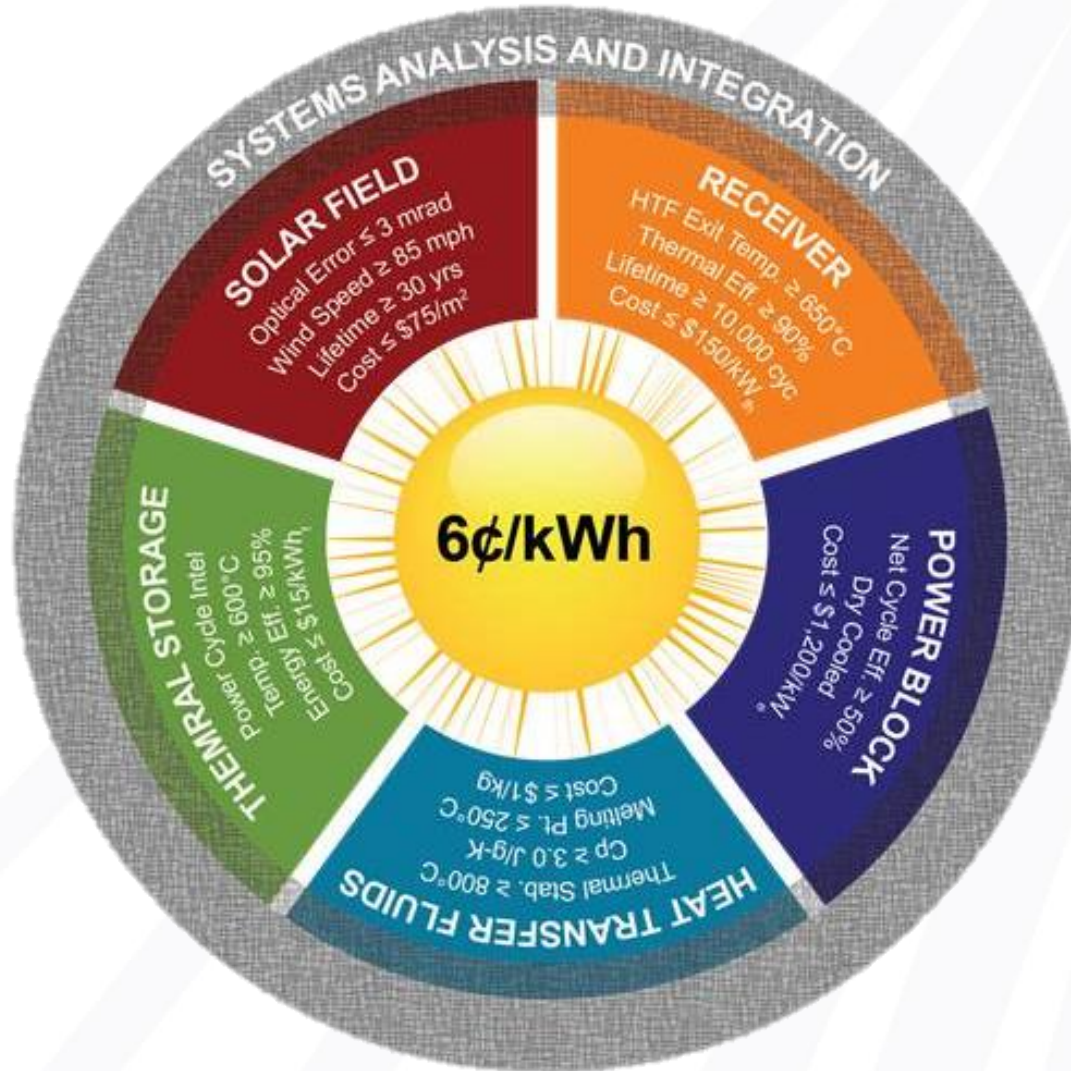


# FY13 funding distribution



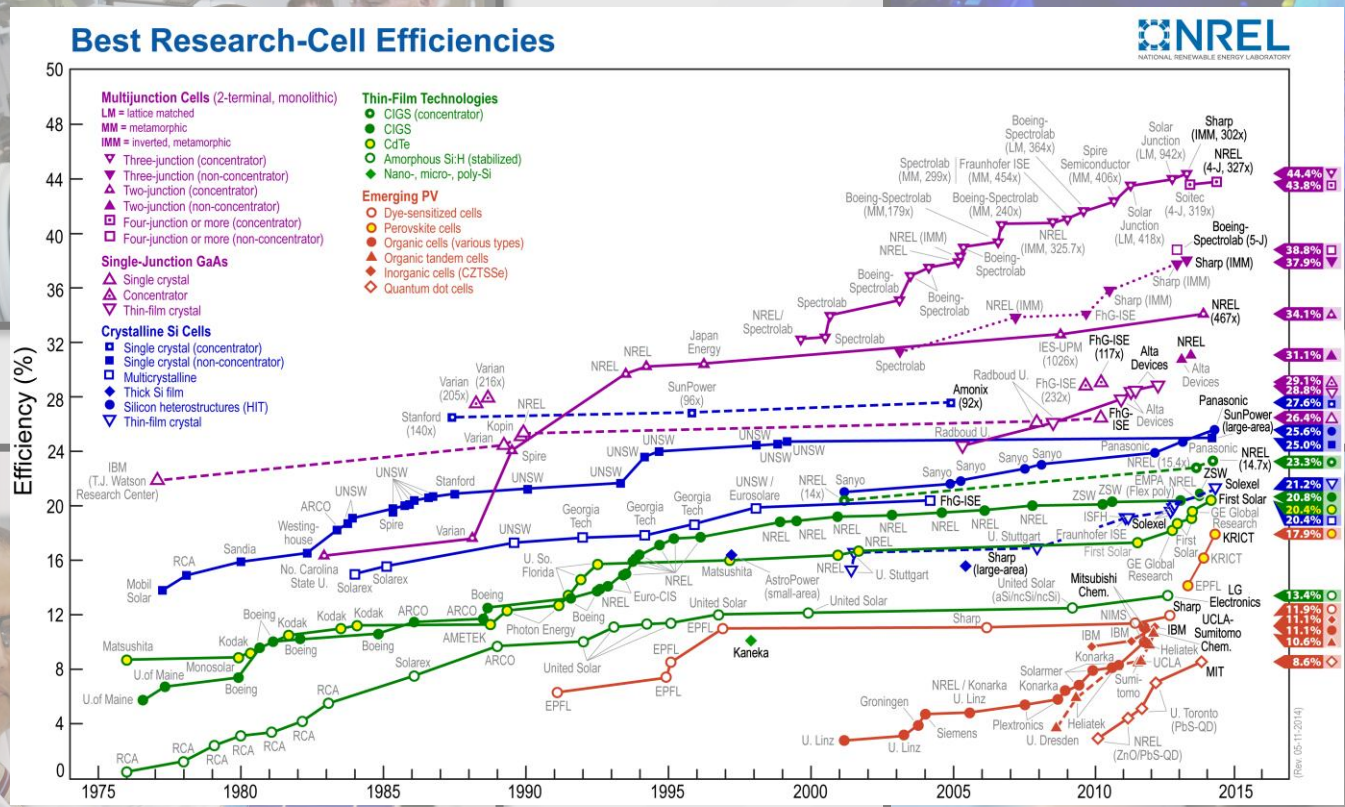
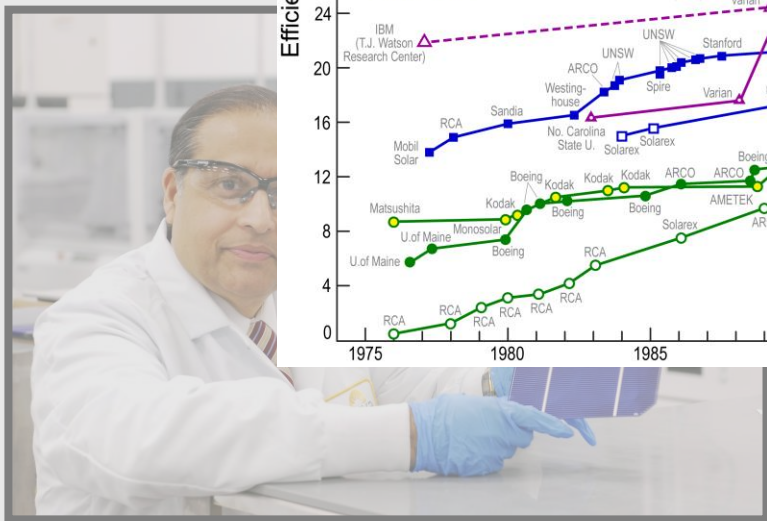
# Concentrating Solar Power

## Dr. Ranga Pitchumani



# Photovoltaics R&D

## Dr. Rebecca Jones-Albertus



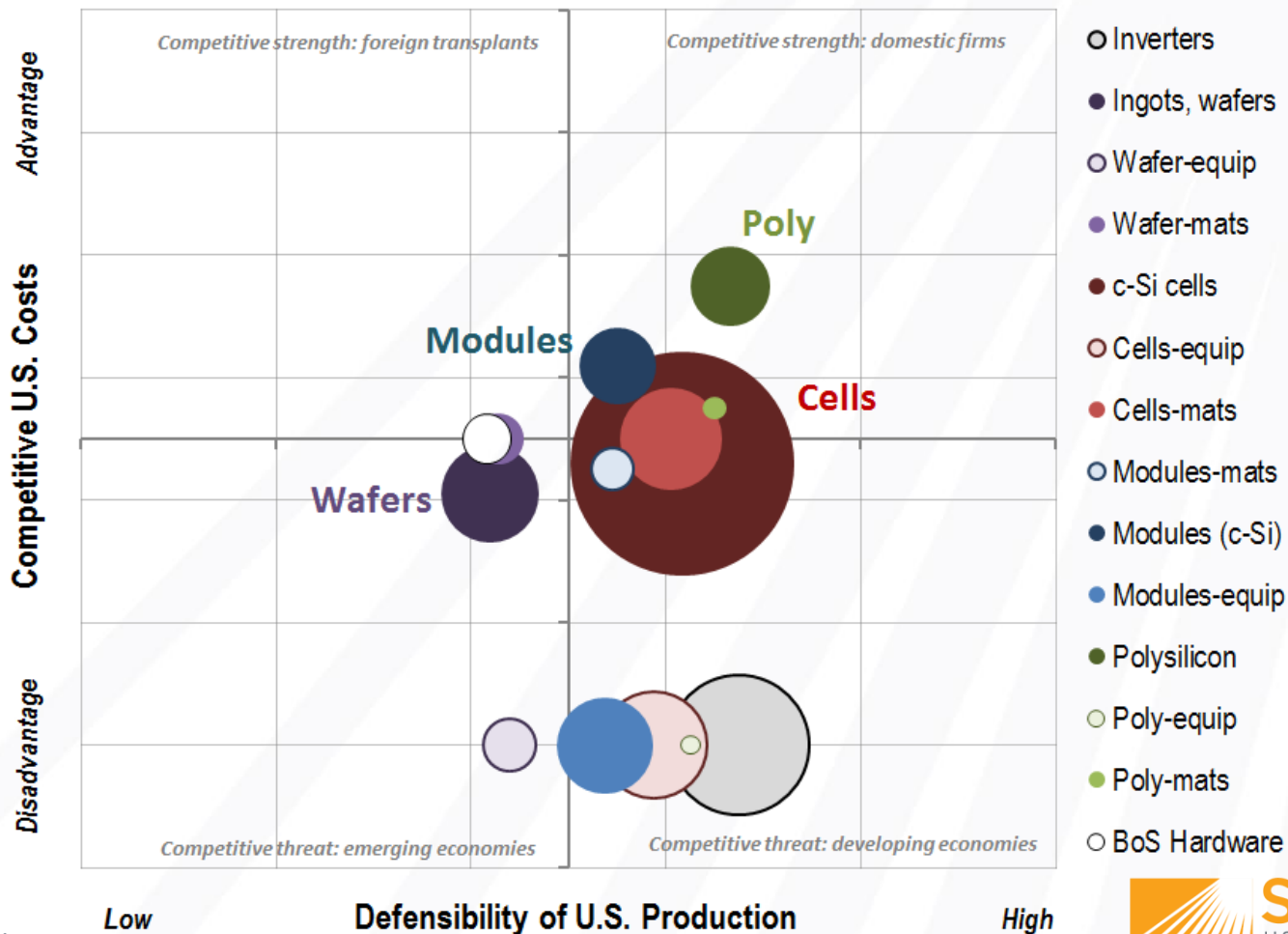


# Innovations in Manufacturing R&D (Tech to Market)

Dr. Lidija Sekaric

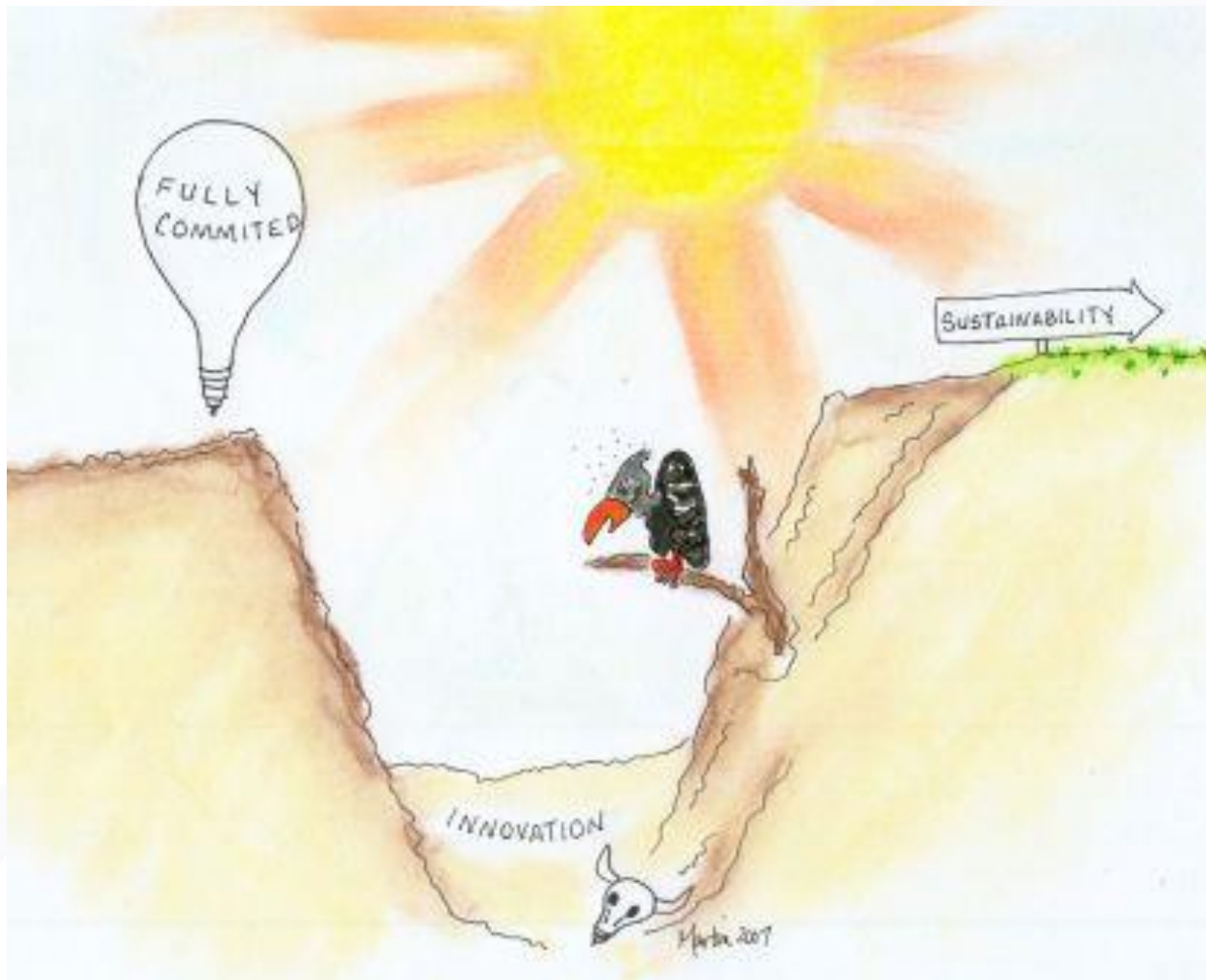


## Long-Run U.S. Manufacturing Opportunities



# Innovations in Manufacturing R&D (Tech to Market)

## Dr. Lidija Sekaric



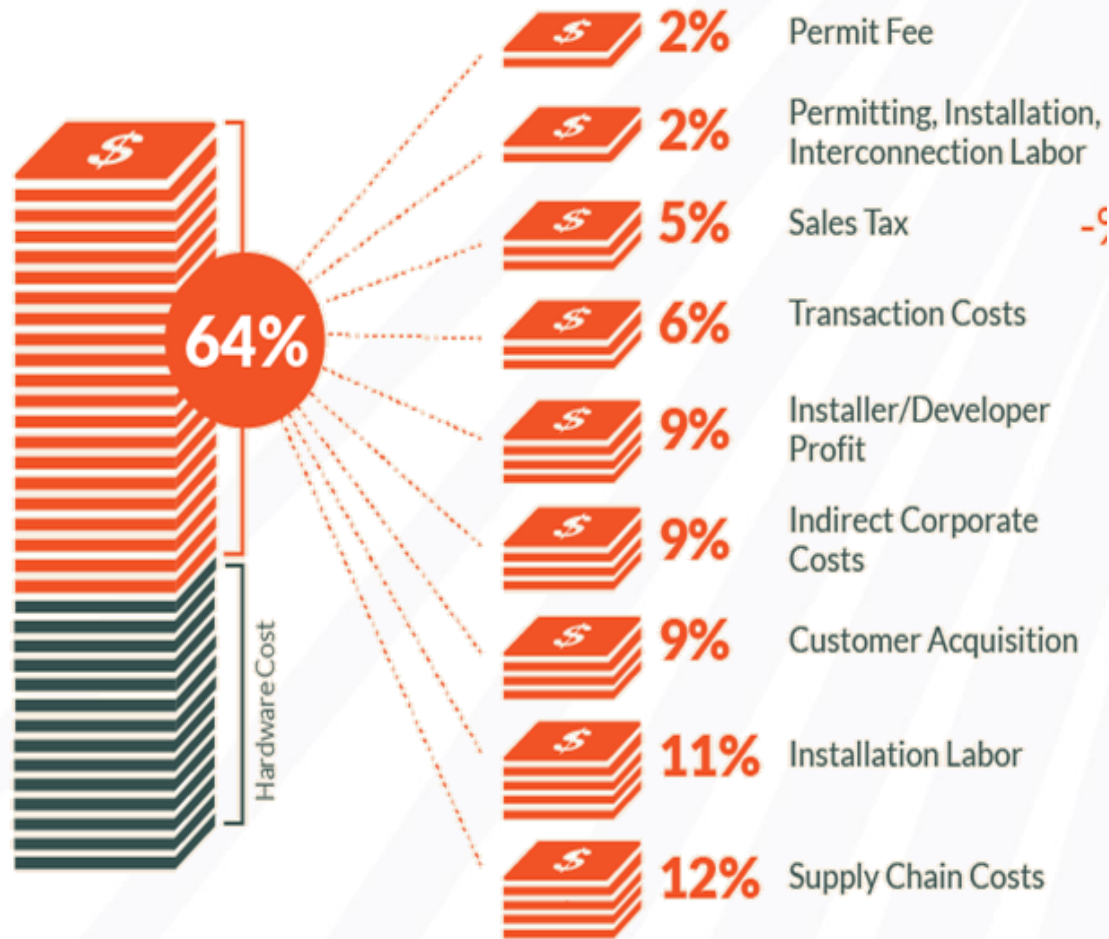
# Systems Integration R&D

Dr. Ranga Pitchumani



# Balance of Systems (Soft BOS)

Dr. Elaine Ulrich





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**Solar Energy Technologies Office**  
**SunShot Initiative**  
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