

SunShot Prize

Race to 7-Day Solar

Break a barrier ... Win a market
\$10 million SunShot Prize

Official Competition Rules
Informational Briefing
April 2015

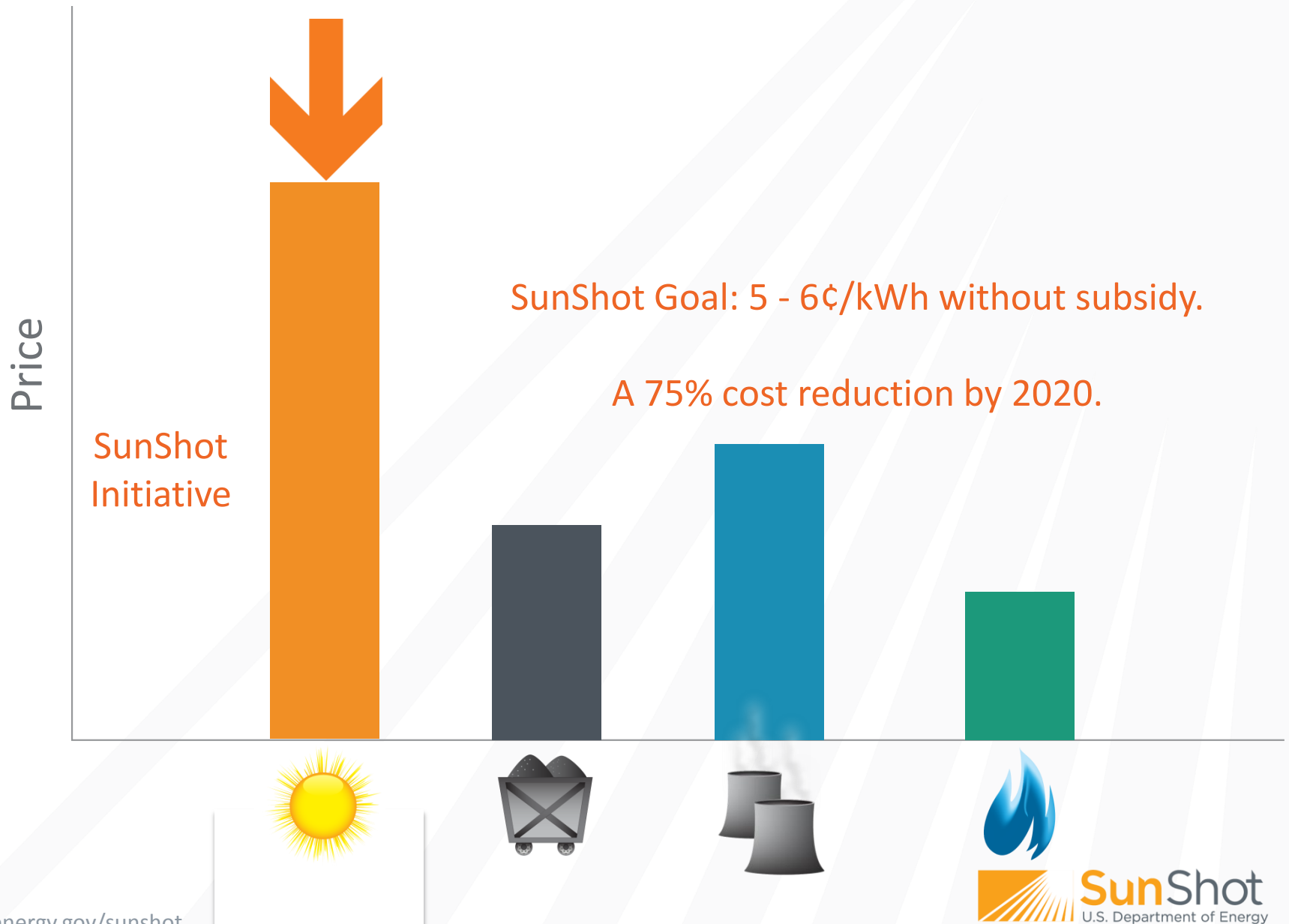


U.S. DEPARTMENT OF
ENERGY

Disclaimer: The information presented in this webinar is not intended to amend, modify or substitute details provided in the SunShot Prize official rules document released on March 4, 2015. Information presented in this webinar should be used in conjunction with the provided rules and guidance located at: <http://energy.gov/eere/sunshot/sunshot-prize-race-7-day-solar>



SunShot

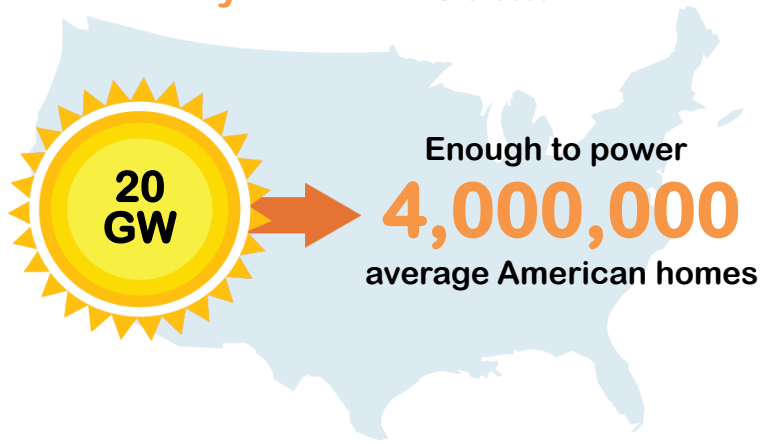


State of Solar Energy in the U.S.

Increasing capacity, lowering costs

Creating jobs, economic growth

By end of 2014...



Nearly
174,000
workers



Strong
22%
in 2014



86,122
workers

STEEL MANUFACTURING



142,177
workers

AUTOMOBILE & LIGHT TRUCK MANUFACTURING



53,459
workers

OILSEED & GRAIN FARMING



SunShot Initiative – Solar Grid Parity by 2020

2010

2014

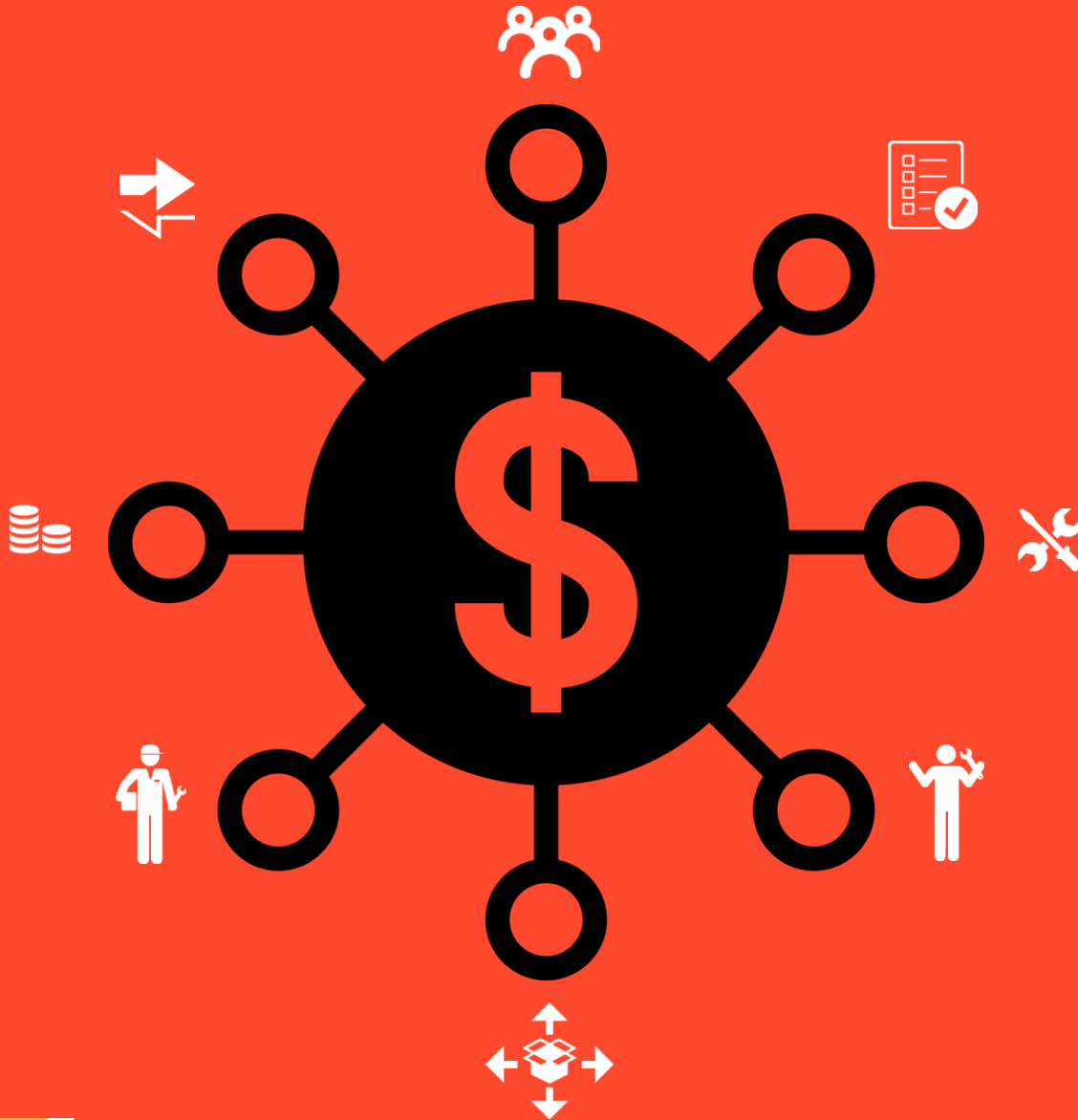
2020

MAJOR PROGRESS

PRIORITY AREAS



**68% progress towards
2020 goals**

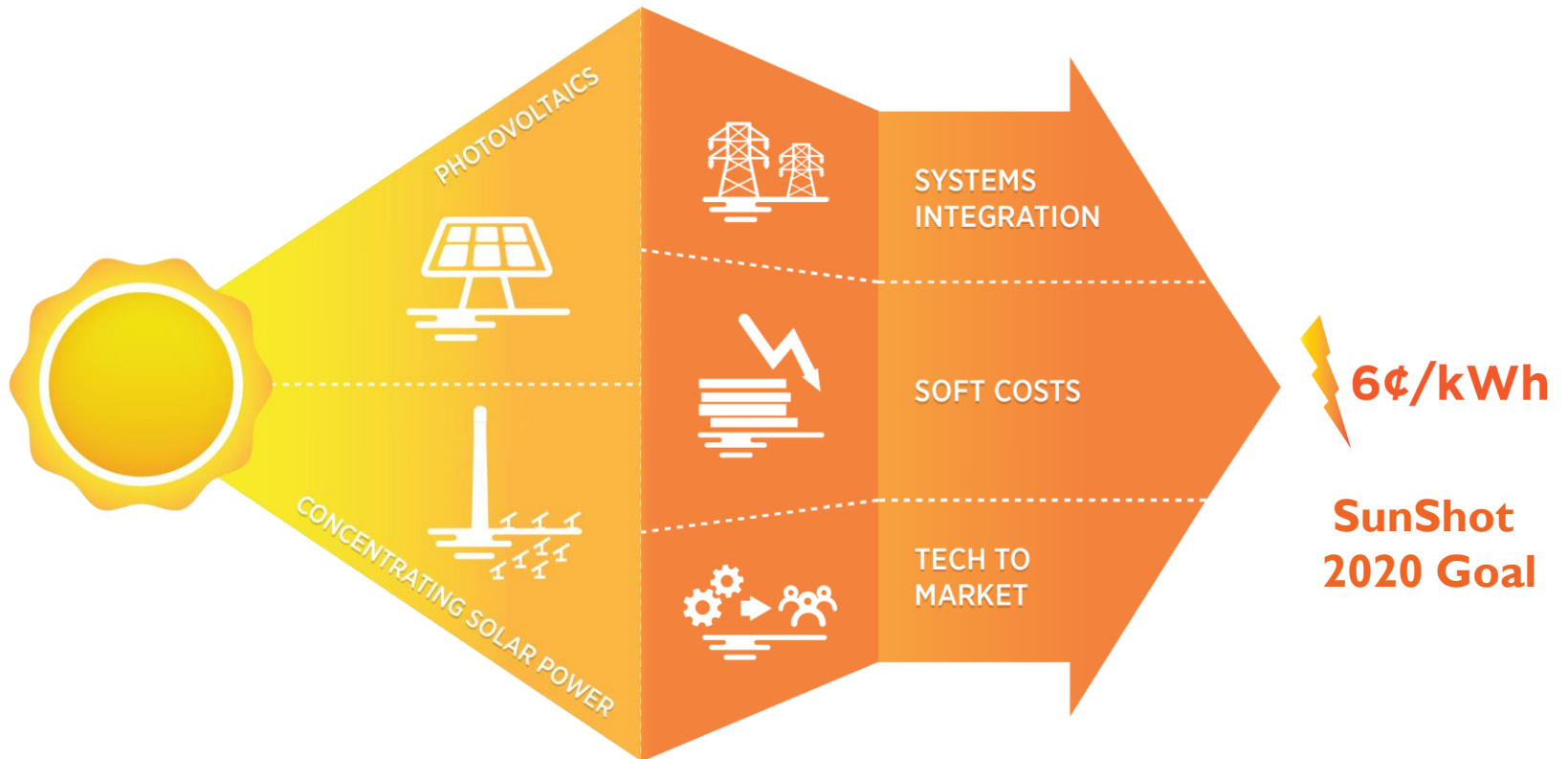


Soft costs
make up

64%

of total price
of residential
system

SunShot Program Structure





Balance of Systems (Soft Costs)

Dr. Elaine Ulrich, Program Manager

BUSINESS INNOVATION

Developing solar finance and business solutions to expand access to capital and accelerate market growth



NETWORKING AND TECHNICAL ASSISTANCE

Empowering state and local decision-makers through timely and actionable resources, peer networks, and technical assistance



DATA ANALYSIS

Harnessing big data analysis and technical solutions to support the many stakeholders involved in solar deployment



TRAINING

Training an innovative solar workforce to enable the solar industry to meet growing demand



Balance of Systems (Soft Costs) Portfolio

Funding: ~ \$115m Awards: ~70 nation wide



Empowering Leaders & Decision Makers

- **Rooftop Solar Challenge 1&2:** 8 Regional Teams, 150M Residents
- **Solar Outreach Partnership :** Nationwide Technical Assistance
- **National Lab Analysis and Assistance:** Strategy and in-depth reports
- **Solar Market Pathways:** Community Solar, finance and deployment innovations
- **Solar Powering America by Recognizing Communities**
- **SunShot Prize: Race to 7-Day Solar**



Harnessing Data

- **Solar Energy Evolution and Diffusion Studies:** Big Data, analytics and real-world pilot programs, University, Private and Lab developed tools: Making data accessible
- **SunShot Incubator :** Software start-ups in GIS, customer acquisition, finance and more
- **CATALYST:** Innovation ecosystem for rapid prototyping and launch of IT and automation solutions



Training Innovators

- **Solar Instructor Training Network:** 400 Community Colleges training installers and code officials
- **Grid Engineers for Accelerated Renewable Energy Deployment:** Utility Power System Engineering network
- **Solar Utility Networks Replicable Innovations in Solar Energy:** Replicable solutions for electric coops and rural communities



Finance & Business Innovation

- **Advanced Financing :** Loans, MLPs, and new streams of capital for solar finance
- **Solar Access to Public Capital:** 350+ finance, ratings agency, developer and installer partners developing standards contracts and templates
- **Real Estate Valuation:** Linking appraisal and finance best practices
- **Community & Shared Solar:** Expanding solar beyond residential rooftops to multi-family, commercial and community based projects

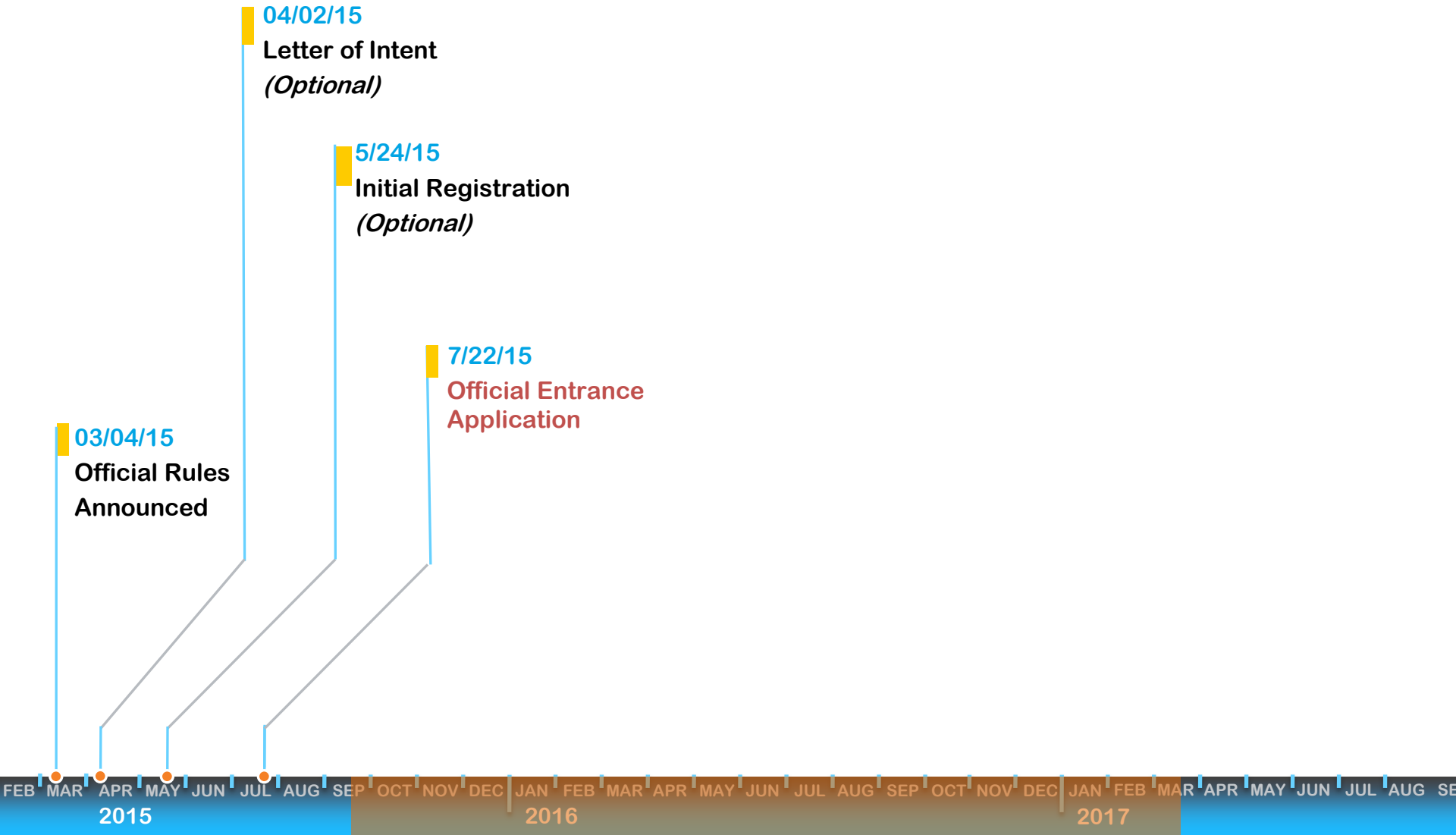


**ARE YOU
THE NEXT TOP
SOLAR
INNOVATOR?**

Registration to Compete is

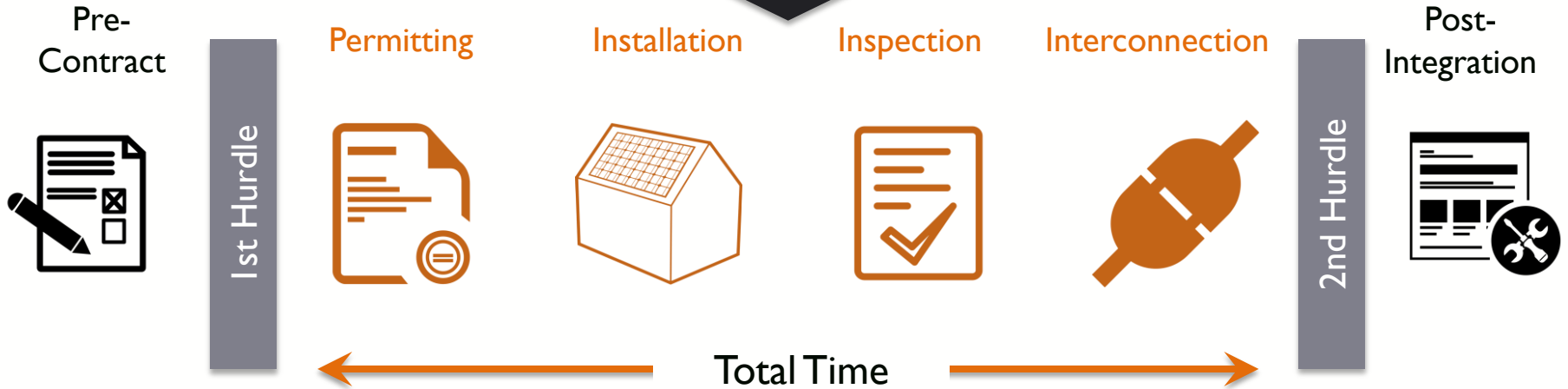
Open

Important Dates



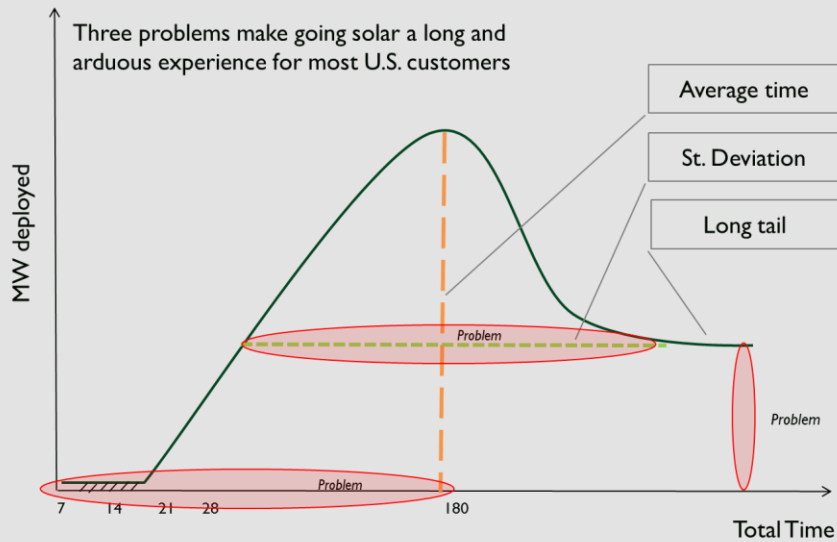
Going Solar: Arduous Experience

The value of delays is \$4 million/day
for 2015 PV deployment

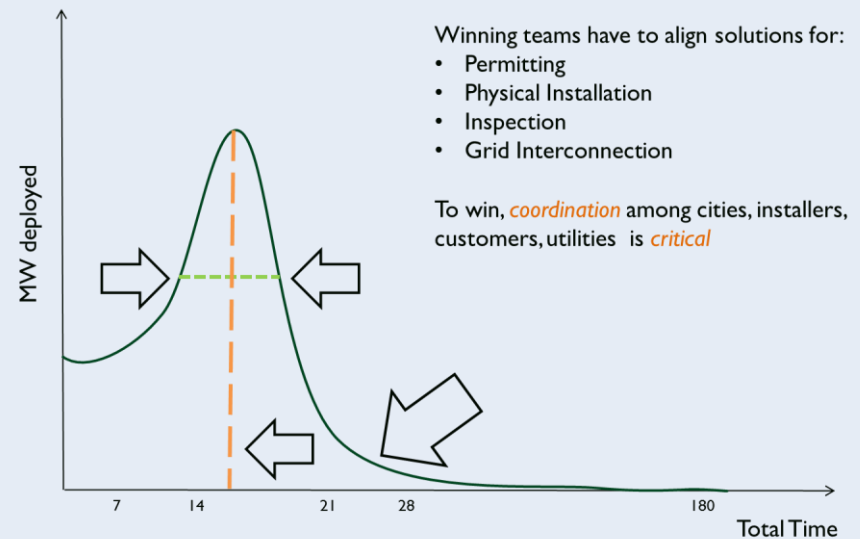


Best Practices
Many examples around the nation

The Problem



The Goal



charts provided are for illustration purposes only

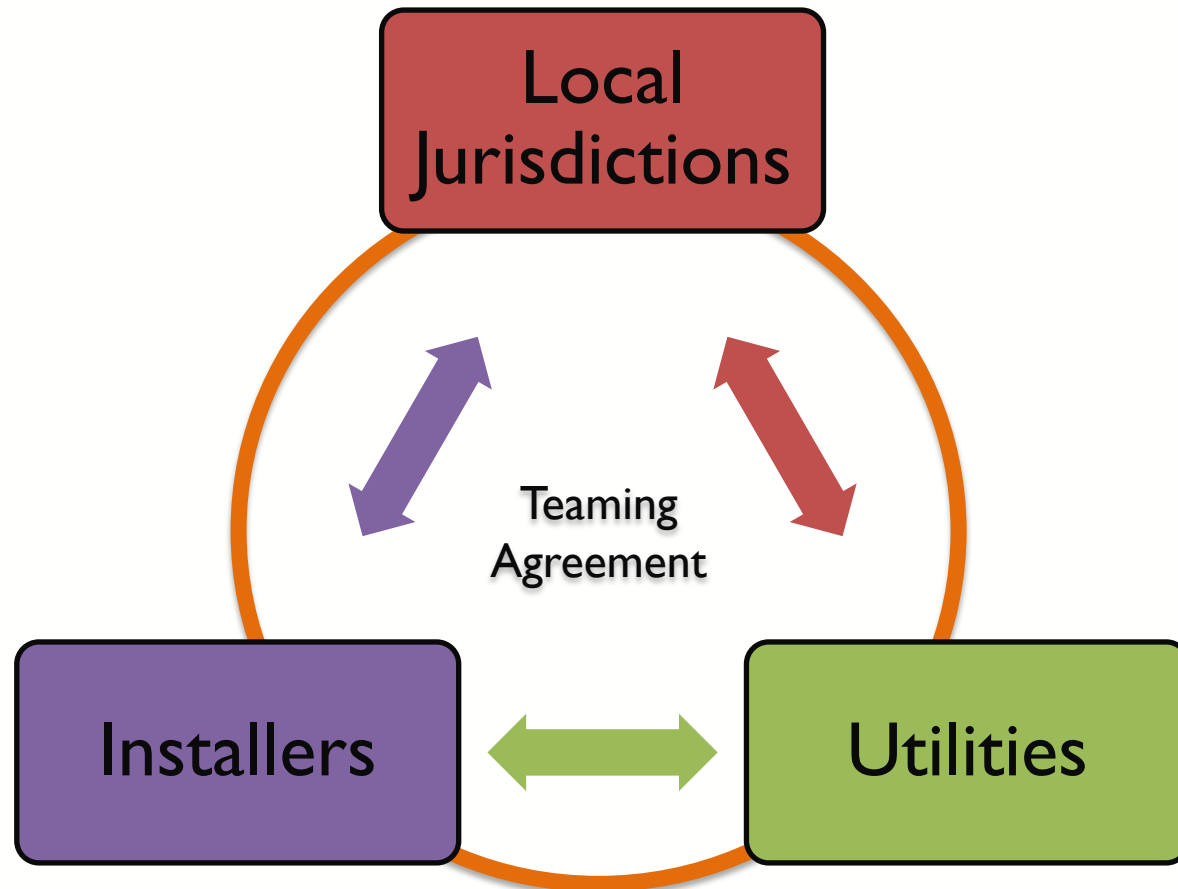
Race to 7-day Solar

 **Small System Contest**

 **Large System Contest**

Teams & Eligibility

Opportunity for Collaboration



SunShot Prize: *Race to 7-Day Solar*

THE GOAL	Increase process certainty and reduce the time of permit-to-plugin	
	Small System Contest (≤100kW)	Large System Contest (≤1MW)
	7 days	7 weeks
THE CHALLENGE	Time efficiency and process certain deployments in set 18 months	
	Min 10MW	Min 15 MW
THE PRIZE	1 st Place: \$3 million 2 nd Place: \$1 million	1 st Place: \$3 million 2 nd Place: \$1 million
	<ul style="list-style-type: none"> • DOE provides seed funding (up to \$100k) for 20 teams to compete. • Teams deploy and accumulate points during a set 18 month period. • Teams with highest total points above a minimum threshold win. 	
THE EVALUATION	Team's performance is evaluated according to quantitative metrics in three criteria (Repeatability, Time Performance, Replicability). Values of metrics convert to points. Teams with highest points win	
THE TIMELINE	Start Date: 03/04/2015 Performance Period: 09/2015 – 03/2017 Winner Announcements: 06/2017	

Grand Prize

Small System Contest

1. **Small PV Systems:** New PV systems between **1 kW and 100 kW** installed and grid interconnected in the U.S.
2. **Total Time in Performance Period:** Permitting, installation, inspection, and grid interconnection should have started and ended during a **set 18-month performance** period. (Fall 2015 – Winter 2017)
3. **Maximum Total Time:** 85% of all new small PV systems (in MW) completed should have individual project's Total Time less or equal **56 days**. (85% Rule)
4. **Qualifying Minimum:** Minimum total capacity of completed PV systems is **10 MW**
5. **Agonistic:** No restrictions on mounting, location or business model provided that PV systems are co-located in the same service area of the customers' utility company.



\$3 million dollars for 1st place winner

\$1 million dollars for 2nd place winner

Determined based on highest total points during 18 months

Must exceed 2,250 points out of total 3,000 points

Grad Prize

Large System Contest

1. **Large PV Systems:** New PV systems between **101 kW and 1000 kW** installed and grid interconnected in the U.S.
2. **Total Time in Performance Period:** Permitting, installation, inspection, and grid interconnection should have started and ended during a **set 18-month performance** period. (Fall 2015 – Winter 2017)
3. **Maximum Total Time:** 85% of all new large PV systems (in MW) completed should have individual project's Total Time less or equal **98 days**. (85% Rule)
4. **Qualifying Minimum:** Minimum total capacity of completed PV systems is **15 MW**
5. **Agonistic:** No restrictions on mounting, location or business model provided that PV systems are co-located in the same service area of the customers' utility company.



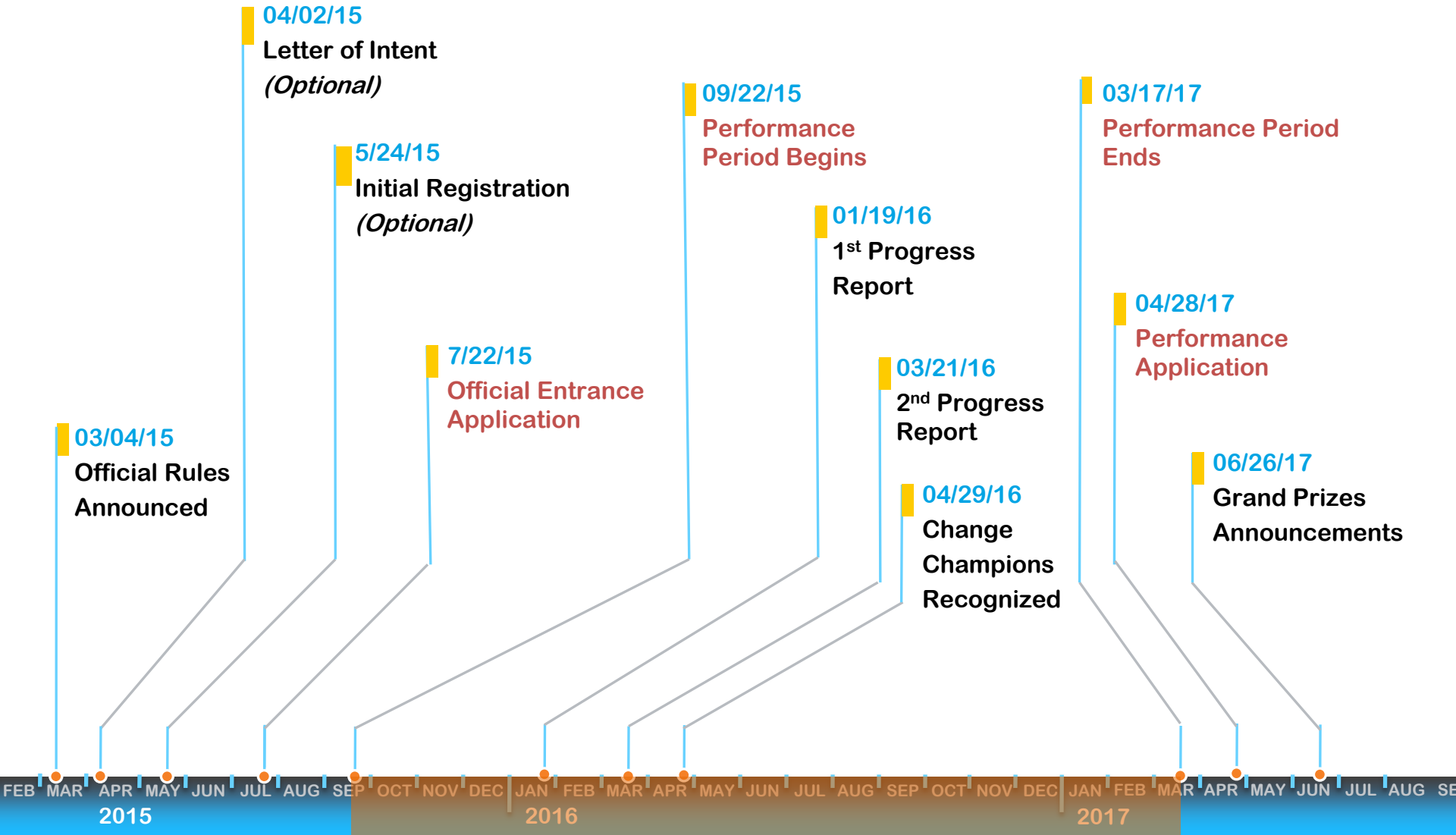
\$3 million dollars for 1st place winner

\$1 million dollars for 2nd place winner

Determined based on highest total points during 18 months

Must exceed 2,250 points out of total 3,000 points

Process & Timeline



Change Prize Evaluation (Pages: 12-14)

Small System Contest & Large System Contest

A. Evaluation of Entrance Application

- Process Innovation and Strategy
- Team and Execution Plan
- Plan Feasibly and Resources

B. Evaluation of Performance Progress Reports

- The team is on track, still committed and has the right resources
- Team has fully deployed the required minimum per round:
 - *Progress Round I:*
 - Mini. **1 MW** of eligible systems (**Small System Contest**)
 - Mini. **1.5 MW** of eligible systems (**Large System Contest**)
 - *Progress Round II:*
 - Mini. **3 MW** of eligible systems (**Small System Contest**)
 - Mini. **4.5 MW** of eligible systems (**Large System Contest**)

See pages 20-22 for the required documents for evaluating submissions

Grand Prize: Evaluation Criteria

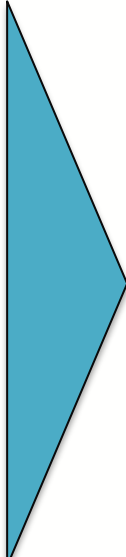
Small System Contest & Large System Contest

Repeatability: The repeatability criteria measure a team's ability to complete PV systems in set time durations repeatedly. Shorter time durations translate to higher points.

Time Performance: The time performance criteria measure a team's ability to consistently reduce the Total Time for PV system and increase the certainty of going solar.

Replicability: Replicability criteria measures a team's ability to apply their innovation for time reduction and increased process certainty across wide geographical areas in the U.S.

Criteria	Metric	Value in	Points (Max)
Repeatability	Time-adjusted capacity	MW	250
	Normalized time-adjusted capacity	%	1000
Time Performance	Total Time expected value	Days	250
	Total Time variability	Days	1000
Replicability	Diversity of Jurisdictions	%	500



See pages 14-18 for how these metrics are calculated

Evaluation Criteria

Small System Contest - Example

Small System Contest - Point Evaluation

Deployment Time Period (t)	Total Time - Small Systems (days)	Total Deployments for Each Time Period (MW)
0	0 - 7	9
1	8 - 14	0
2	15 - 21	0
3	22 - 28	0
4	29 - 35	0
5	36 - 42	2
6	43 - 49	0
7	50 - 56	0
Capacity Deployed in ≤ 56 days		11
Other	More than 56 Days (input here)	1.5
TOTAL CAPACITY:		12.5
85% Rule Satisfied? (green means yes)		88.00%

Input total deployment for each time period in MW in these boxes

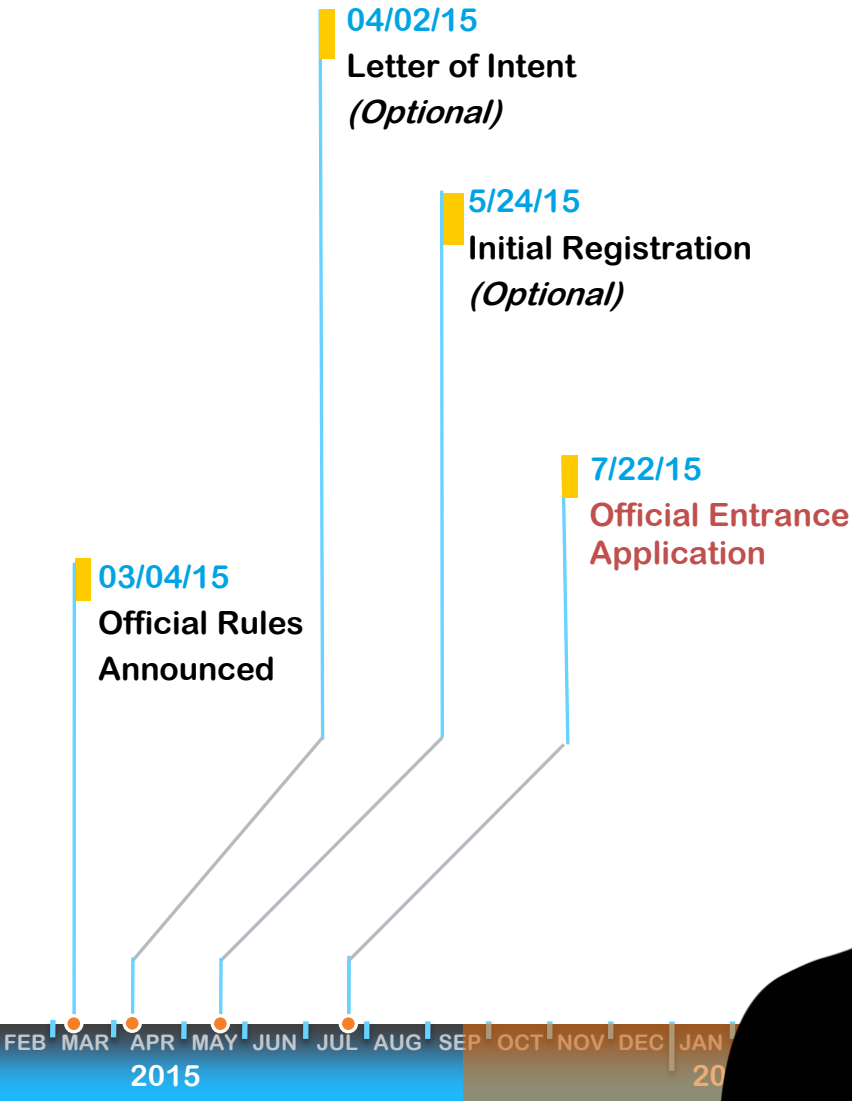
Metric #1 Time-Adjusted Capacity (in MW)	Metric #2 Normalized Time-Adjusted Capacity	Metric #3 Total Time Expected Value (in Days)	Metric #4 Total Time Variability (in Days)
10.24	93%	13.36	13.50
<i>points</i>			
90	930	205	560
1785			

Total Point Score

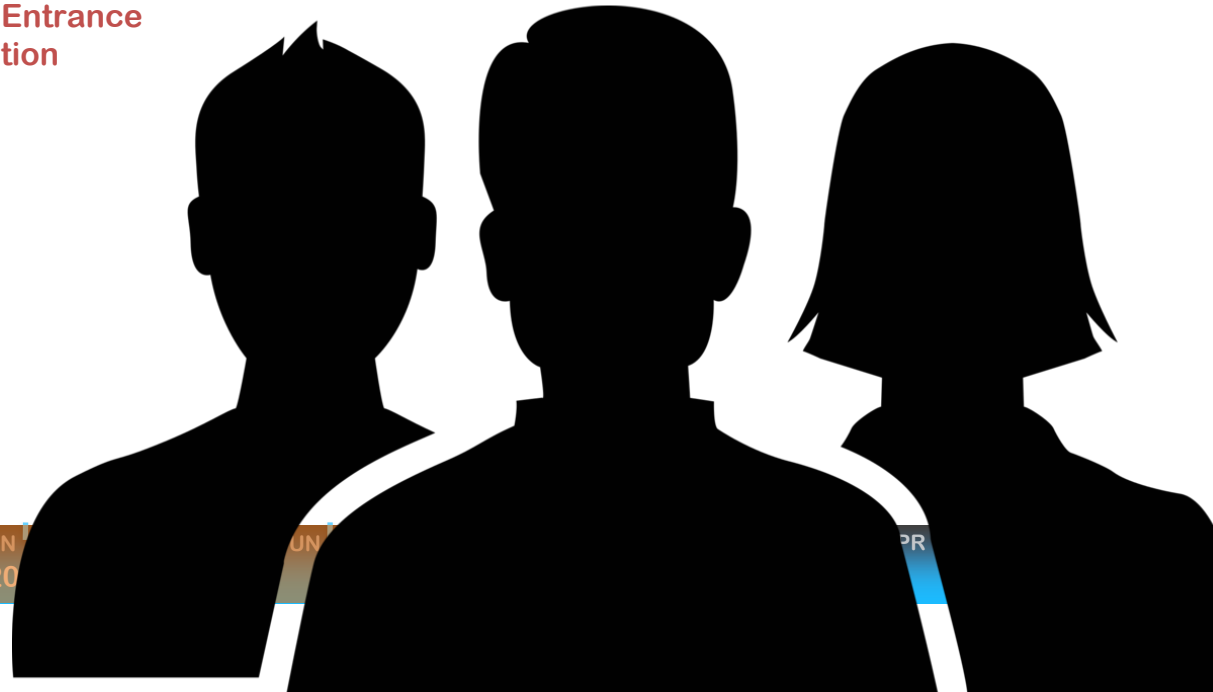
2275

Jurisdiction No.	Total Deployments for Each Jurisdiction (MW)	Metric #5 Diversity of Jurisdictions
1	1.5	88.84%
2	0.5	
3	1	<i>points</i>
4	2	490
5	1	
6	1	
7	1	
8	1	
9	1	
10	1	
Capacity Deployed in ≤ 56 days		
TOTAL CAPACITY:		12.5

Important Dates



**ARE YOU
THE NEXT TOP
SOLAR
INNOVATOR?**



The Prize Webpage

<http://energy.gov/eere/sunshot/sunshot-prize-race-7-day-solar>

The screenshot shows the official webpage for the SunShot Prize: The Race to 7-Day Solar. The page is part of the Energy.gov website, specifically under the Office of Energy Efficiency & Renewable Energy. The header includes the Energy.gov logo, a search bar, and a navigation menu with categories like SERVICES, EFFICIENCY, RENEWABLES, TRANSPORTATION, ABOUT US, and OFFICES. The main content area is titled "SUNSHOT PRIZE: THE RACE TO 7-DAY SOLAR" and includes a sidebar with links to various sections like SunShot Home, About, Concentrating Solar Power, Photovoltaics, Systems Integration, Soft Costs, Reducing Non-Hardware Costs, Lowering Barriers, Fostering Growth, Technology to Market, Success Stories, Financial Opportunities, Information Resources, and News. The main text describes the competition's goal to reduce permit-to-plug-in times for PV systems. It outlines the goal and prizes, challenge and rules, and the process of the competition. A timeline section lists key dates: Start Date (March 4, 2015), Letter of Intent Due (Optional) (April 2, 2015), Entrant Application (July 22, 2015), and Performance Period (September 2015 - March 2017). A resources section provides links to a webinar, FAQs, and contact information for the SunShot Prize.

ENERGY.GOV
Office of Energy Efficiency & Renewable Energy

Home » Soft Costs » SunShot Prize: The Race to 7-Day Solar

SUNSHOT PRIZE: THE RACE TO 7-DAY SOLAR

Sponsored by the U.S. Department of Energy SunShot Initiative, the SunShot Prize: Race to 7-Day Solar aims to motivate local governments, communities, solar companies and electric utilities to collaborate towards improving the "going solar" experience from permit to plug-in for all Americans. This competition offers a total of \$10 million in cash awards to the best teams that bring process certainty and reduce the permit to plug-in time from current durations to a swift seven days for small PV systems (≤100 kW) or seven weeks for large systems (≥1 MW). SunShot will provide seed funding to help support up to 20 teams during a set 18-month performance period that begins in September 2015.

GOAL AND PRIZES

Reduce permit-to-plug-in times towards seven days for PV systems ≤100kW (small system contest) or seven weeks for PV systems ≥1 MW (large system contest) and win cash prizes totaling \$10 million.

CHALLENGE AND RULES

Install a number of PV systems time efficiently during a set 18-month period that aggregates to minimum 10 MW (small system contest) or 15 MW (large system contest) with best scores for repeatability, time performance and replicability. [Read the rules to learn about these performance metrics.](#)

PROCESS

1. SunShot will award cash prizes (up to \$100k) for top 20 teams to compete and improve.
2. Teams deploy PV systems and accumulate points based on performance during a set 18-month period starting in September 2015 and ending in March 2017.
3. Teams with highest total points above a minimum threshold win total of \$8 million in grand prizes. The first place and second place grand prizes are \$3 million and \$1 million in each of the two contests.

Submit your letter of intent before April 2, 2015. [Details here.](#)

TIMELINE

Start Date: March 4, 2015
Letter of Intent Due (Optional): April 2, 2015
Entrant Application: July 22, 2015
Performance Period: September 2015 - March 2017
[Get started now!](#)

RESOURCES

- Register for a webinar to learn more about the competition.
 - March 18, 2:30-3:30pm ET
 - March 20, 3:00-4:00pm ET
- Learn more with FAQs, webinars, workshops, infographics, and other resources
- For questions or inquiries, including interest in participation, contact sunshot.prize@ee.doe.gov.

U.S. DEPARTMENT OF ENERGY
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The Official Rules



SunShot Prize RACE TO 7-DAY SOLAR

OFFICIAL RULES

COMPETITION TIMELINE

<i>Release of Official Rules</i>	<i>Wednesday, March 4, 2015</i>
<i>Letter of Intent Due (Optional)</i>	<i>Thursday, April 2, 2015</i>
<i>Initial Registration Due (Optional)</i>	<i>Monday, May 24, 2015</i>
<i>Entrance Application Due</i>	<i>Wednesday, July 22, 2015</i>
<i>Announcement of Teams</i>	<i>Tuesday, September 22, 2015</i>
<i>Performance Period Begins</i>	<i>Tuesday, September 22, 2015</i>
<i>First Progress Report Due</i>	<i>Tuesday, January 19, 2016</i>
<i>Second Progress Report Due</i>	<i>Monday, March 21, 2016</i>
<i>Announcement of Change Champions</i>	<i>Friday, April 29, 2016</i>
<i>Performance Period Ends</i>	<i>Friday, March 17, 2017</i>
<i>Performance Application Due</i>	<i>Friday, April 28, 2017</i>
<i>Announcements of Competition Prize Winners</i>	<i>Monday, June 26, 2017</i>

*All submissions are due no later than 11:59 PM ET
DOE reserves the right to modify any submission period or due date at any time for any reason*

QUESTIONS

Official email: sunshot.prize@ee.doe.gov
Official website: ere.energy.gov/solar/sunshot/prize.html

February 27, 2015

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Grand Prizes Score Sheet

Disclaimer: The U.S. Department of Energy (DOE) is providing this sample draft template as is and without warranty or liability for usage. The sample is provided for the convenience of the public who are interested in learning about the suggested evaluation criteria provided in the draft rules document of the [SunShot Prize: Race to 7-Day Solar](#). Details necessary to compete in this prize competition program can be found [online](#). The information provided in this template is not intended to amend, modify or substitute details provided in the draft rules document. Information presented should be used in conjunction with the draft rules. Should you have questions, please email: sunshot.prize@ee.doe.gov. **Warning:** Although DOE has taken reasonable precautions to ensure no viruses are present in this file, DOE cannot accept responsibility for any loss or damage arising from the use of this file.

[Visit SunShot Prize: Race to 7- Day Solar](#)

Small System Contest - Point Evaluation

Deployment Time Period (t)	Total Time - Small Systems (days)	Total Deployments for Each Time Period (MW)
0	0 - 7	8
1	8 - 14	0
2	15 - 21	0
3	22 - 28	0
4	29 - 35	0
5	36 - 42	2
6	43 - 49	0
7	50 - 56	0
<i>Capacity Deployed in ≤ 56 days</i>		10
Other	More than 56 Days (input here)	1.5
TOTAL CAPACITY:		11.5
85% Rule Satisfied? (green means yes)		86.96%

Input total deployment for each time period in MW in these boxes

Metric #1 Time-Adjusted Capacity (in MW)	Metric #2 Normalized Time-Adjusted Capacity	Metric #3 Total Time Expected Value (in Days)	Metric #4 Total Time Variability (in Days)
9.24	92%	14.00	14.00
<i>points</i>			
58	920	200	550
1728			
Total Point Score			

Jurisdiction No.	Total Deployments for Each Jurisdiction (MW)	Metric #5 Diversity of Jurisdictions
1	1.5	89.50%
2	0.5	
3	1	<i>points</i>
4	1	495
5	1	
6	1	
7	1	
8	1	
9	1	
10	1	
<i>Capacity Deployed in ≤ 56 days</i>		
TOTAL CAPACITY:		11.5

2223



Thank You

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