

2016 Renewable Energy Program Roll Out

Participants will be muted for today's webinar.

Your webinar toolbar:

Audio pin (must be entered to use hand raise function)

Questions may be submitted in writing using the question tool



January Safety – Being Mentally Prepared for Emergencies

Be sure to review your site's Emergency Action Plan Periodically and know what steps to follow when calling for emergency help. You come to work every day prepare for work at hand and knowledgeable on how to handle work-related problems at work. Be prepared to ACT if one of your co-works is injured. Know how to protect yourself.

- ✓ HOW AND WHO do you notify in an emergency?
- ✓ SHOULD YOU STAY with an injured person or run for help?
- ✓ IF YOU ARE NOT First Aid or CPR certified, do you know who in your work area is?
- ✓ DOES THE EMERGENCY scene need to be secured?
- ✓ DO YOU KNOW the chain of command – who is in charge during an emergency?
- ✓ DO YOU KNOW who is in charge of your site's emergency response plan?



Distributed Solar Solutions

2016 Pilot Rollout

January 8, 2016

Steve Noe, Program Manager



Agenda

- Distributed Solar Solutions (DSS) Pilot Overview
- Timeline and Process
- Questions

2016 Distributed Solar Solutions (DSS) - Overview

Pilot Goals

- Implementing “Closer to the Customer”
- Partnerships
- Knowledge Sharing with other LPCs

Pilot details are determined by the guidelines which are subject to adjustment or modification as needed.

Pilot Offering

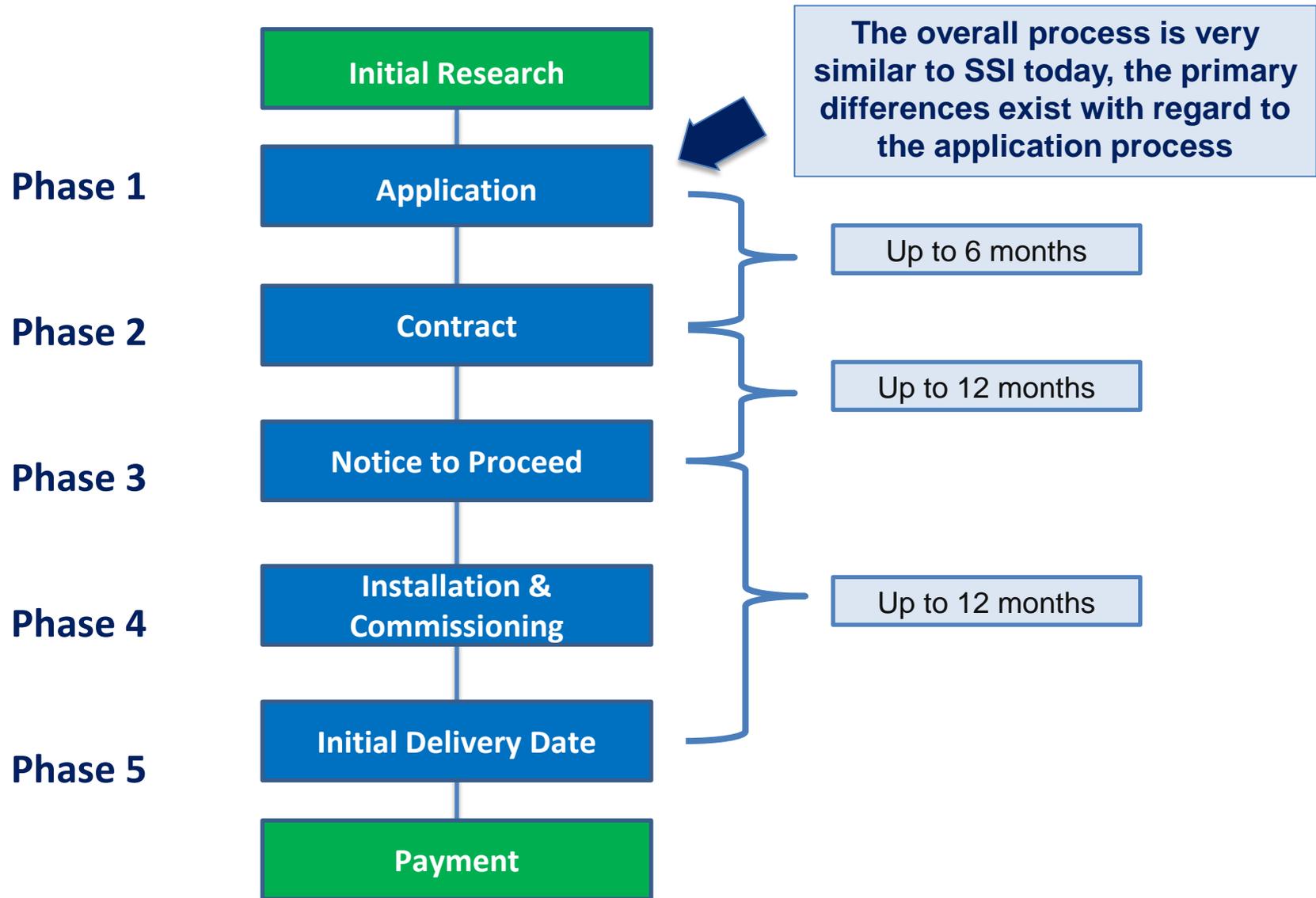
- 10MW (initial offering)
- LPCs submitted applications only
- No cap on individual LPCs (i.e., number of projects per LPC)

System Size - >50kW to 5MW

Participants/Owners

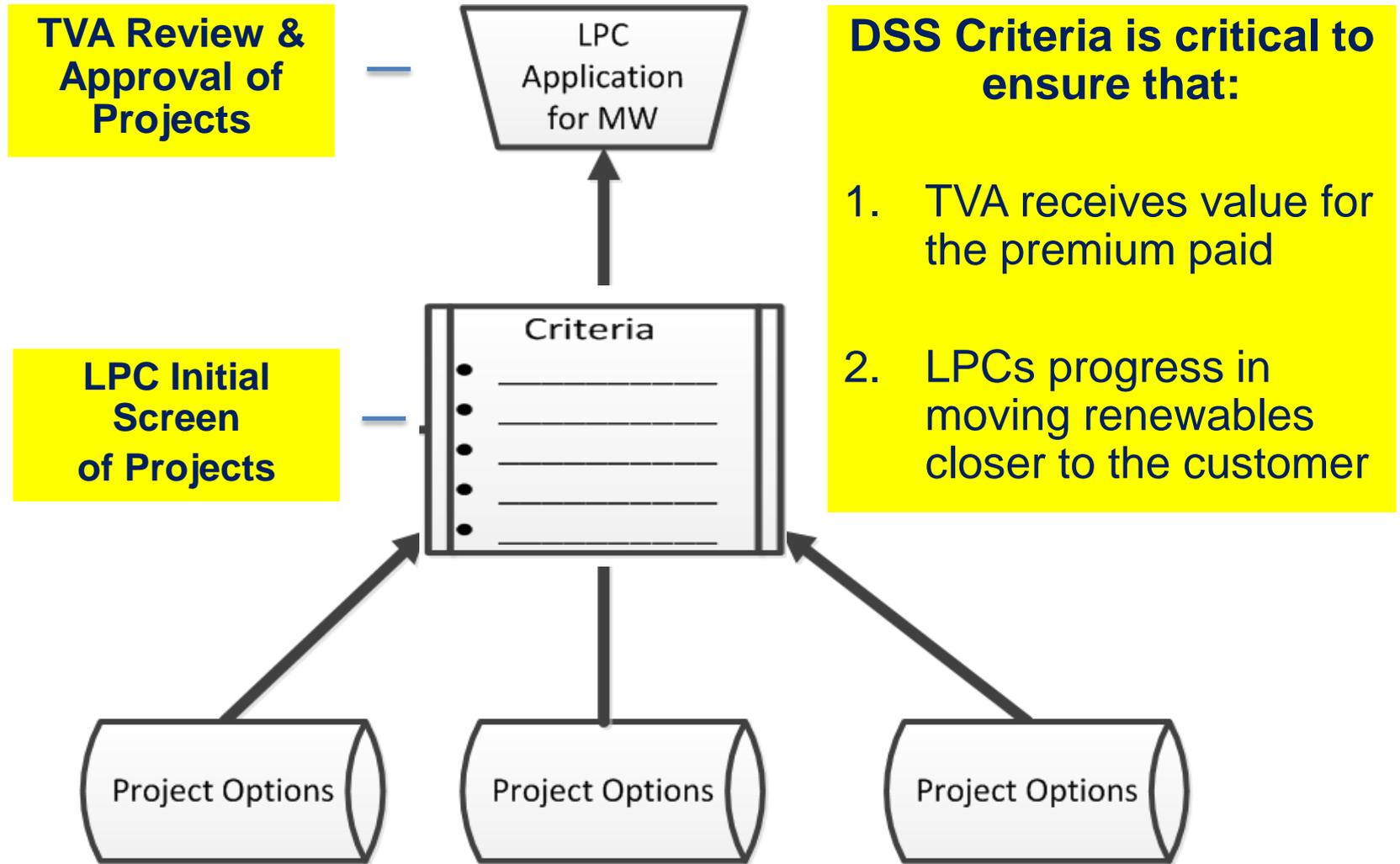
- LPCs
- LPC subsidiaries (LPC owned LLC)
- LPC sponsored third-parties (7SPC, Developers)

2016 DSS - Process



Application Process & Criteria Overview

2016 DSS – Application Process



2016 DSS – Participation Criteria

LPC Business Models

1. Financing Models – Innovative LPC financial structures (beyond leveraging the investment tax credit, depreciation benefits, or grants) that minimize total system costs and explore unique financing structures (e.g., creative LLC financing vehicles)
2. Customer engagement models –Business models that encourage greater end-use consumer focus and engagement and provide opportunities for a wide range of customers to participate in the project (e.g., community solar, aggregated rooftop solar)

LPC Technical Innovations

1. Targeted Deployment – Solar projects intentionally located for several specified, measurable, feeder benefits that significantly expand the technical knowledge base of the LPC community (e.g., volt/var support, loss reduction)
2. Grid Management – Solar projects intentionally aggregated with other advanced DER technologies for several specified, measurable, distribution network benefits that significantly expand the technical knowledge base of the LPC community (e.g., integration of solar in an advanced distribution automation scheme or advanced grid system that optimizes system characteristics)

DSS Application Sample – Eligibility

Section 2: Project Eligibility Requirements

To be eligible for participation, applicant must select at least one primary category and one subcategory below. The selection of multiple categories or subcategories is preferable to meet the goals and objectives of DSS. Determination of project eligibility will be at the sole discretion of TVA; end-use locations that benefit a single customer will generally not qualify.

Please select all that apply:

- Primary Category 1: LPC Business Models**
 - Financing Model – Innovative LPC financial structures (beyond leveraging the investment tax credit, depreciation benefits, or grants) that minimize total system costs and explore unique financing structures (e.g., creative LLC financing vehicles)
 - Customer Engagement - Business models that encourage greater end-use consumer focus and engagement and provide opportunities for a wide range of customers to participate in the project (e.g., community solar, aggregated rooftop solar)
- Primary Category 2: LPC Technical Innovations**
 - Targeted Deployment - Solar projects intentionally located for several specified, measurable, feeder benefits that significantly expand the technical knowledge base of the LPC community (e.g., volt/var support, loss reduction)
 - Grid Management - Solar projects intentionally aggregated with other advanced DER technologies for several specified, measurable, distribution network benefits that significantly expand the technical knowledge base of the LPC community (e.g., integration of solar in an advanced distribution automation scheme or advanced grid system that optimizes system characteristics)
- 2016 ITC:** Project Plan relies on leveraging the 2016 Investment Tax Credits (financial structure requires further description in narrative section)

Additional Supporting Considerations (supplemental content to support primary categories above)

Outreach/Education

- Options for low-income participation
- Future knowledge sharing with LPC community
- Educational opportunities in local community

Leveraging Opportunities

- Leveraging of strategic partnerships with experienced 3rd parties
- Leveraging financial opportunities such as grants, incentives, awards
- Secondary long-term impacts to local communities

Sustainability/Environment

- Consideration of green field land use minimization such as brownfield or rooftop utilization

Please provide a narrative description that includes:

- how the proposed project meets the defined categories, subcategories, and additional supporting considerations listed above; and
- how the LPC will share knowledge gained from experience with this system with the greater LPC Community

DSS Pricing Information

Seasonal and time-of-day Base Prices in constant, unescalated United States currency:

Month	Time of Day (CPT)	Base Price (¢/kWh)
July & August	Mon-Fri 12pm-8pm	6.868
	Mon-Fri 6am-12pm and 8pm-12am; Sat & Sun 6am-12am	5.419
	Everyday 12am-6am	4.092
June & September	Mon-Fri 12pm-8pm	5.536
	Mon-Fri 6am-12pm and 8pm-12am; Sat & Sun 6am-12am	4.885
	Everyday 12am-6am	3.906
January & February	Mon-Fri 6am-10pm	5.353
	Mon-Fri 10pm-12am; Sat & Sun 6am-12am	4.957
	Everyday 12am-6am	4.305
December & March	Mon-Fri 6am-10pm	4.801
	Mon-Fri 10pm-12am; Sat & Sun 6am-12am	4.802
	Everyday 12am-6am	4.224
April, May, October, & November	Mon-Fri 6am-10pm	4.734
	Mon-Fri 10pm-12am; Sat & Sun 6am-12am	4.610
	Everyday 12am-6am	3.880

The Base Price Average throughout the Term is fixed at 4.807 ¢/kWh.

DSS Pricing Continued

- The Contract Price for any given seasonal time of day equals the Base Price for that seasonal time of day escalated at a rate of one and a half percent (1.5%) per year beginning on January 1 of the calendar year following the Initial Delivery Date (IDD).
- An unescalated premium of 2.73 ¢/kWh will be added to the above Contract Price throughout the term.
- Example:
 - Project reaches IDD December 15, 2016, for generation in December (Mon-Fri 6am-10pm) the energy is purchased at:
 - $4.801 + 2.73 = 7.531$ ¢/kWh
 - One year later, for the same time period the purchase price would be:
 - $(4.801 * 1.015) + 2.73 = 7.603$ ¢/kWh
 - Two years later, for the same time period the purchase price would be:
 - $(4.801 * 1.015 * 1.015) + 2.73 = 7.676$ ¢/kWh

DSS Application Timeline

- DSS Open Enrollment Period (Jan 13 – Feb 2)
- TVA Review (Feb 3 – 17)
 - TVA will determine viable projects based upon Section 2 eligibility requirements of the DSS Guidelines.
 - Capacity scenarios for review purposes will be as follows:
 - a) If > 10 MW of viable projects received, perform random selection process; remaining projects will be waitlisted pending executive approval of additional capacity.
 - b) If < 10 MW of viable projects received, approve capacity and move to 1st come, 1st serve process for remainder of 2016
- DSS Workshops (Dates TBD)

Contact DSS

Email DSS at DSS@tva.gov

Questions / Discussion

