



Distributed Solar Update

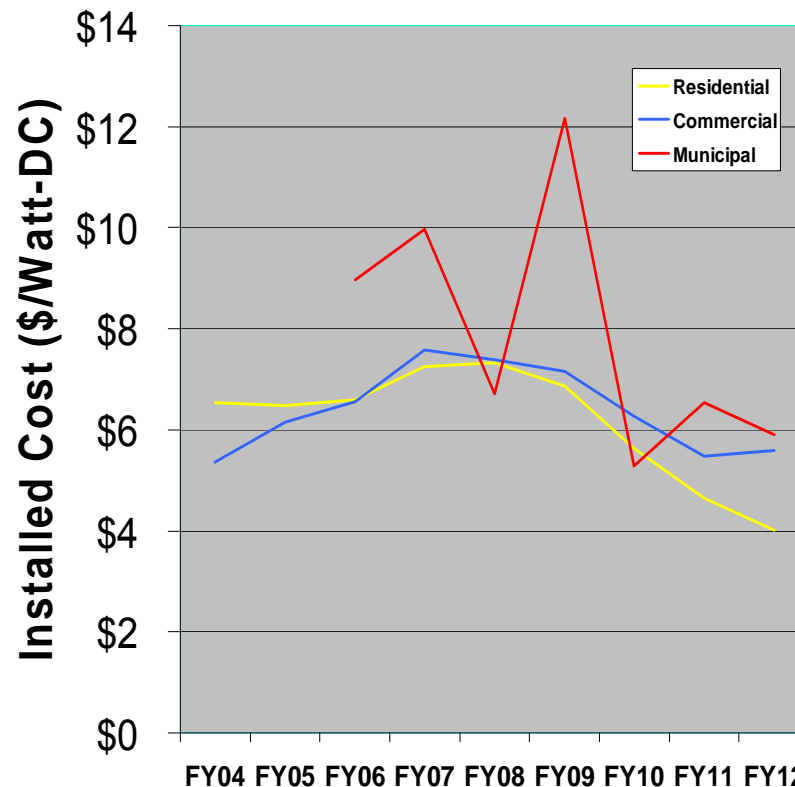


Leslie Libby, Manager
Distributed Solar
October 15, 2012

Total Austin Energy Solar Capacity



- Total AE Solar
 - 38.5 MW
- Utility Solar
 - 30 MW
- Distributed Solar
 - 8.5 MW



Distributed Solar Overview & Current Status

Solar Water Heater Rebate



- Current Incentive
 - \$2,000 per system for a retrofit
 - \$1,500 per system for new construction
 - Custom rebates for commercial projects
- Average cost per system
 - \$8,791 per system - residential retrofit
 - \$5,571 per system - residential new construction
 - \$10,577 per system - commercial (2 projects for FY12)
- Number of systems installed
 - FY 12 90
 - Cumulative 221

SEIA Q2 2012 Report - Austin had the lowest installed cost in the nation (\$3.88/W-DC)

- Current rebate level is \$2 per watt
- Average cost per watt for FY12: \$4.01/W-DC
- Number of systems installed
 - FY 12 463
 - Cumulative 1,900
- Number of MW installed
 - FY 12 1.9 MW-AC
 - Cumulative 6.4 MW-AC
- Outstanding LOIs
 - Number 146
 - \$ Amount \$1.72M
 - MW 0.75 MW-AC

- Current PBI is \$0.14 per kWh
- Average cost per watt FY12: \$4.43/W-DC
- Number of systems installed
 - FY 12 10
 - Cumulative 19
- Number of MW installed
 - FY 12 0.090 MW-AC
 - Cumulative 0.266 MW-AC
- Outstanding LOIs
 - Number 19
 - Cumulative 1.36 MW-AC

- Average cost per watt FY12: \$5.91/W-DC
- Number of systems installed
 - FY12 9
 - Cumulative 45
- Number of MW installed
 - FY12 0.139 MW-AC
 - Cumulative 0.627 MW-AC

- Number of systems installed
 - FY12 14
 - Cumulative 47
- Number of MW installed
 - FY12 0.039 MW-AC
 - Cumulative 0.118 MW-AC

School districts served	
AISD	EISD
PISD	MISD
RRISD	LTISD
DVISD	LISD

- Residential PV - \$7.4 M (CRIF)
 - Solar Value Credit - \$1.7 M (PSA)
- Commercial PBI - \$0.96 M (PSA)
- Solar Water Heater - \$0.1 M (CRIF)
- Solar for Schools - \$0.05 M (O&M)

Residential Solar Rate

(Solar Value Credit)



- PV system connected on the customer side of the meter - system qualifies for a property tax exemption
- Under new five tier rate a customer's bill is calculated based on **total** consumption:
 - *Solar meter read + net revenue meter read = total consumption*
- Austin Energy credits customer for solar production according to the annually updated VOS
- 2012 Solar Value Credit is \$0.128/kWh
- Credits can roll to the next month from Jan. 1 until Dec. 31

2020 Forecast for Distributed Solar



- Residential rebate – 23 MW-AC
- Commercial PBI – 37 MW-AC
- Municipal/community solar – 20 MW-AC
- Installed capacity through FY12 – 8.5 MW-AC
- Total 2020 distributed solar – 88.5 MW-AC

Forecast for Residential Rebate



	Projected Installed Cost (\$/W-DC)	Rebate (\$/W)	MW-DC	MW-AC	\$M
FY13	\$3.90	\$2.00	3.70	2.85	7.4
FY14	\$3.64	\$1.73	3.70	2.85	6.4
FY15	\$3.39	\$1.46	3.71	2.85	5.4
FY16	\$3.13	\$1.19	3.71	2.86	4.4
FY17	\$2.87	\$0.91	3.72	2.86	3.4
FY18	\$2.61	\$0.64	3.73	2.87	2.4
FY19	\$2.36	\$0.37	3.77	2.90	1.4
FY20	\$2.10	\$0.10	4.00	3.08	0.4
Total			30	23	31.2

*Assumes ITC is extended beyond 2016

Forecast for Commercial PBI



	PBI (\$/kWh)	# of Projects	Average Project Size (kW)	MW-AC	\$M
FY13	0.140	30	125	3.75	0.96
FY14	0.098	32	125	4.00	1.62
FY15	0.069	34	125	4.25	2.11
FY16	0.048	36	125	4.50	2.47
FY17	0.034	38	125	4.75	2.73
FY18	0.024	40	125	5.00	2.92
FY19	0.016	42	125	5.25	3.05
FY20	0.012	45	125	5.63	3.15
FY21					3.13
FY22					3.06
FY23					2.19
FY24					1.54
FY25					1.06
FY26					0.71
FY27					0.45
FY28					0.25
FY29					0.11
Total		297		37	31.56

*Assumes ITC is extended beyond 2016

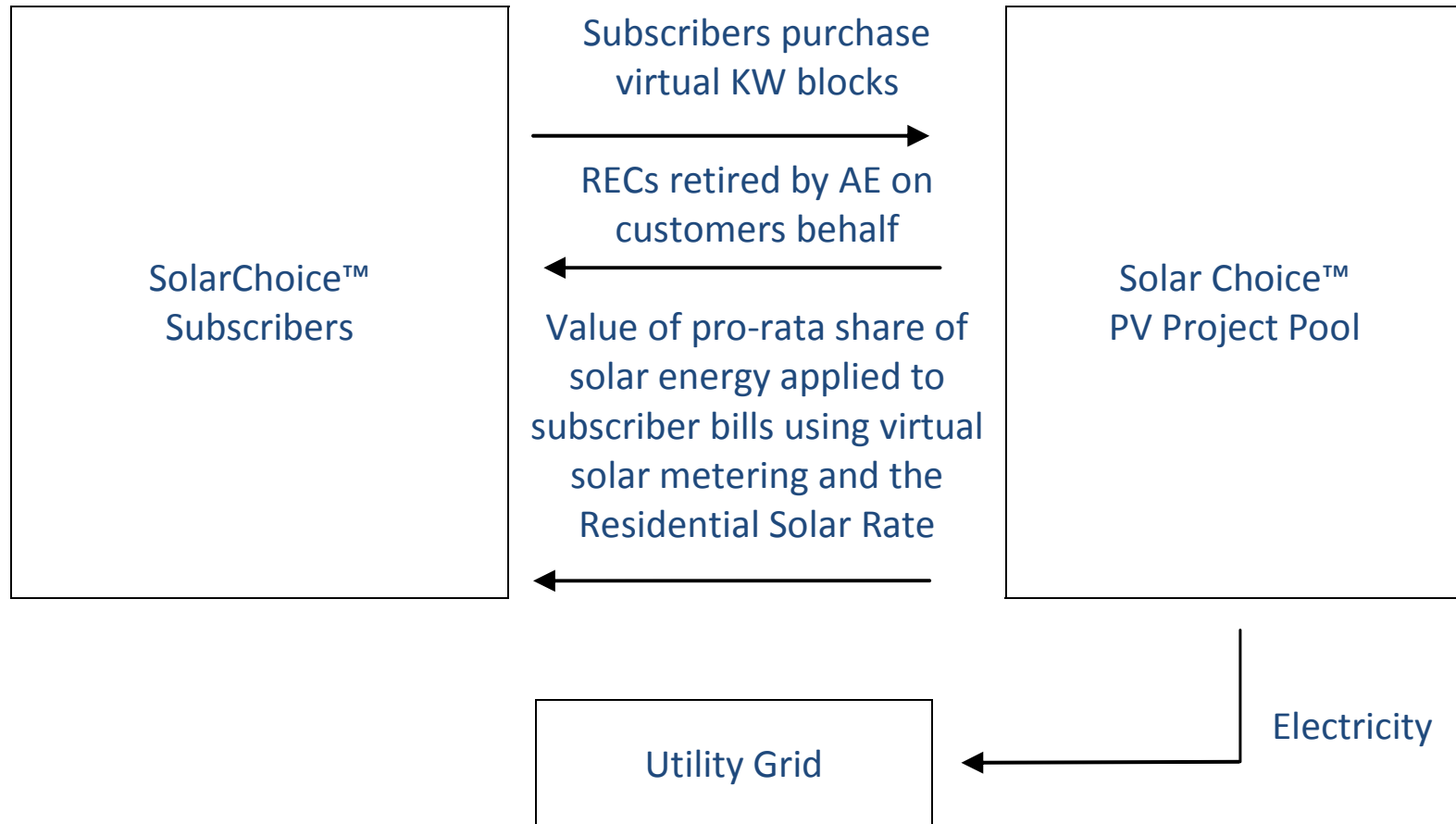
New Programs for FY13

- Provide PBI for non-profit leased projects
 - Qualifying customers:
 - Schools (ISDs)
 - 501c3

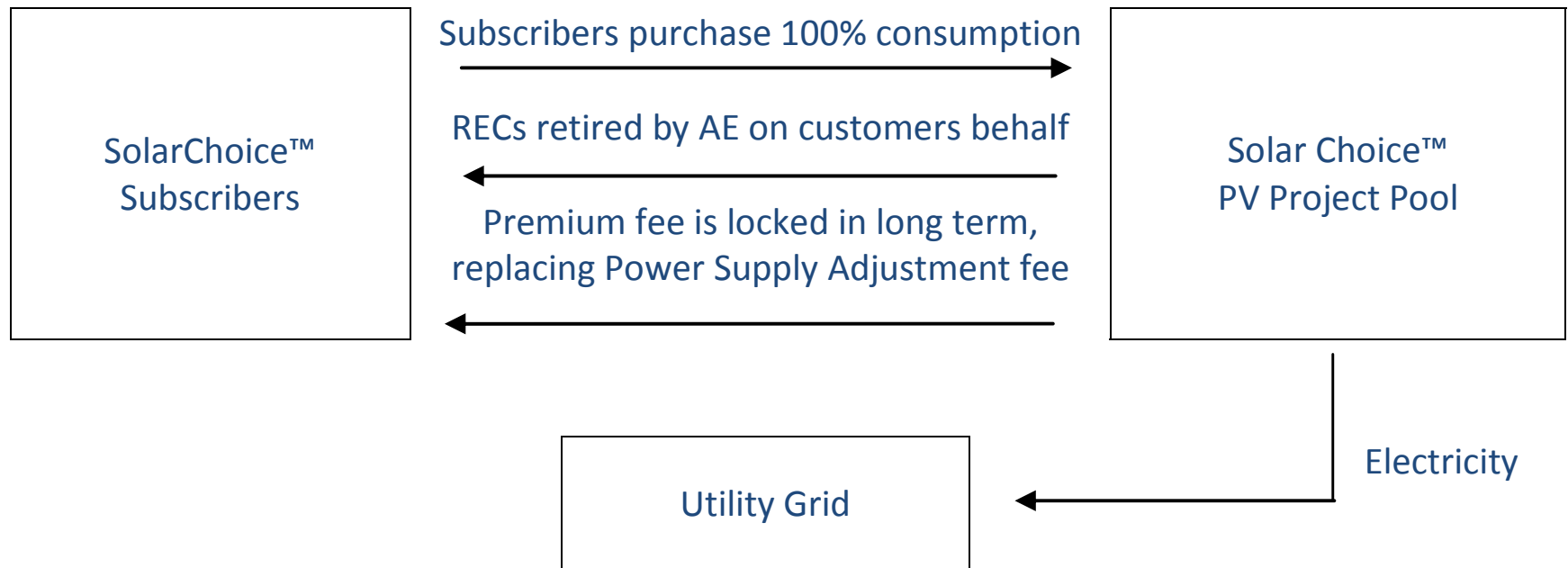
- Program Launch 1Q 2013
- Program development partially funded by DOE's Rooftop Solar Initiative (KEMA contract)
- Goals
 - Anticipated Participation 2000 Subscribers
 - Capacity Installed 10 MW-AC
- CIP budget impact *(working on this number)*
- Revenue projections *(working on this number)*

- KEMA under contract
 - Best practices report delivered
 - Pricing calculator delivered
- Conducted customer survey
 - Summary of results
- Program design
 - Model – Hybrid (kW and kWh) or GreenChoiceTM (kWh)
 - Pricing - (?)

SolarChoice™ Model (Hybrid - kW and kWh)



SolarChoice™ Model (Similar to GreenChoice® kWh)



- Focus Groups 11.1.12
- CC&B
 - Setup begins after Council approval
- Customer Care
 - CSR training will begin 30 days before going live
- Marketing
 - Roll out intake meeting week of 11.5.12
- Project pool and metering
 - Palmer and Decker
- Hire Program Manager

Questions?