NEM Grandfathering

February 19, 2014





PG&E's Grandfathering Proposal

- PG&E's **transition period** for current customers to move from existing program to NEM 2.0 is based on a reasonable payback period that:
 - Protects existing NEM customers' investment in their systems
 - Subjects non-participating PG&E customers to lower cost shifts
 - Gradually steps down to NEM 2.0 to mitigate a gold rush
 - Reflects AB327 direction to base transition period on reasonable payback period.

Interconnection From	Interconnection To	Customer Transfers to NEM 2.0*	Years on NEM 1.0
Start of NEM	March 30, 2014	January 1, 2023	10 - 25
April 1, 2014	December 31, 2015	January 1, 2020	5 - 7
January 1, 2016	June 30, 2017	NEM 2.0 effective date	1 - 1.5
Transition occurs first true-up perior	od following January 1, 2023		



Proposals for "life-of-system" significantly increase the potential cost-shift over proposals based on reasonable payback

	Years Post 2017	MWs Grandfathered²	Cumulative PG&E Cost-Shift During Proposed Grandfathering period (\$ billions)¹
TURN	3	1,640	\$1.3
ORA	5	1,640	\$2.1
PG&E, SDG&E	7	1,310	\$2.0
SCE	7	1,640	\$2.9
CCSE- & Most solar Parties	20 -30	2,409	\$12.3 - \$18.4
Other solar parties	45	2,409	\$27.7

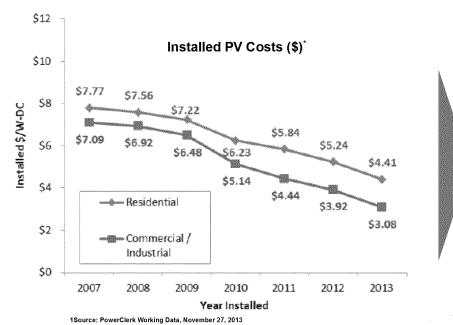
Notes

¹⁾ Calculations rely on Cost-Shift per MW per year in 2017 of \$255,000 from E3 work-papers;

²⁾ Projected volumes are from E3 work-paper projections of year-end volumes, with partial year values interpolated. Proposals from CCSE and solar parties are set at PG&E's NEM Cap of 2409 MW due to expected "gold-rush" from lengthy grandfathering. PG&E and SDG&E's proposal is assumed to result in less megawatts grandfathered than SCE's because of the step-down in grandfathering proposed by the former.

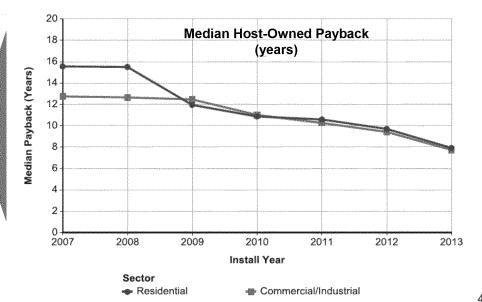


Basis for 7- to 10-Year Payback Period



- System prices declined 40% over 4 years
- Costs are expected to continue declining (Germany~\$2.35/Watt)

- Lower prices have led to declines in payback period
- This trend will continue to as costs continue to decline



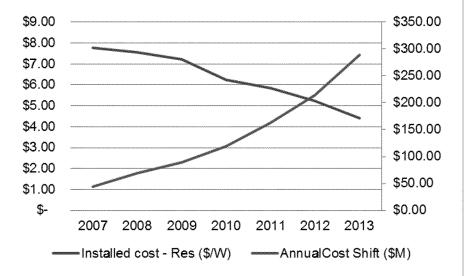
^{*} Source: Navigant Consulting report submitted with PG&E reply comments on Grandfathering



Market Analysis

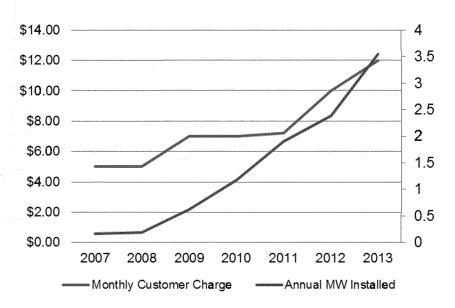
- Solar industry's previous claims of market disruption did not materialize
- Decreasing system costs mean it is possible to address cost-shift without market disruption
- It is understandable that solar market wants to preserve (increase) profits, but not at expense of utility customers

As cost of solar has decreased, no savings have reached nonparticipating customers



Source: Navigant Consulting & E3

SMUD has increased customer fixed charge with no decrease in installation rates



Source: Sacramento Municipal Utility District

geo



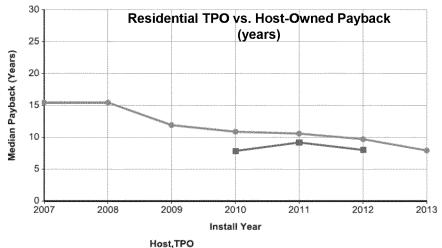
APPENDIX

Privileged and Confidential

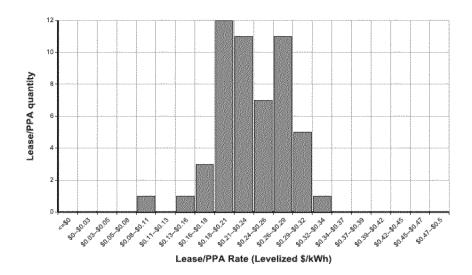
6



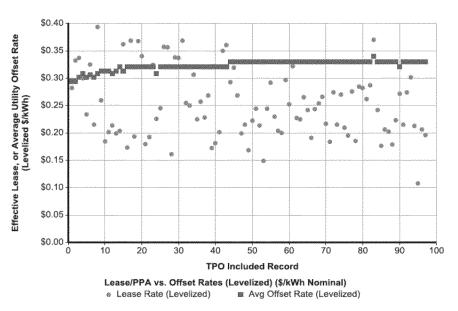
Residential Third-Party Owned Analysis







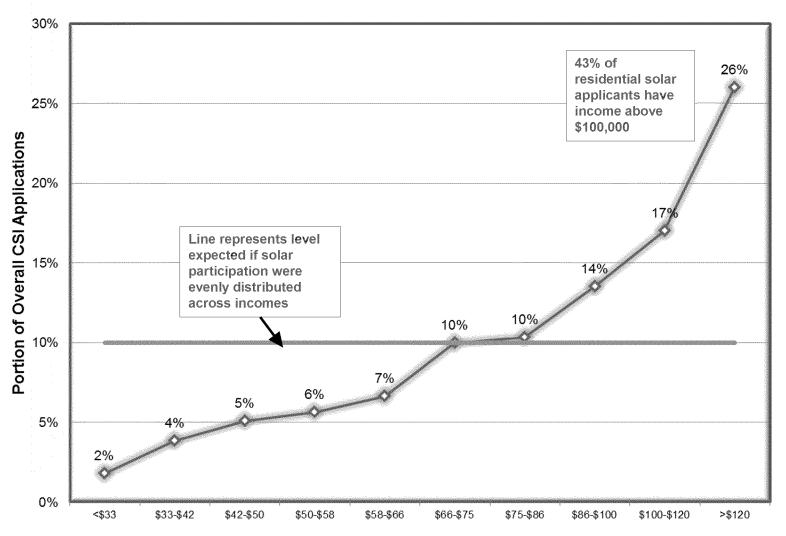
- TPO payback lower than host-owned for residential; TPOs are able to monetize depreciation
- TPO arrangements provide immediate savings with little upfront payment
- Required conversion of the lease/PPA into terms that could translate into payback



7



Residential adoption is concentrated among high income customers



10% of PG&E Customers are in each Income Category (\$000)

8