

Hawaii Solar Energy Association



Legislative Informational Hearing

Tuesday, January 20, 2015

- Status of the solar interconnection queue
 - non-export solar interconnection
 - future integration of PV

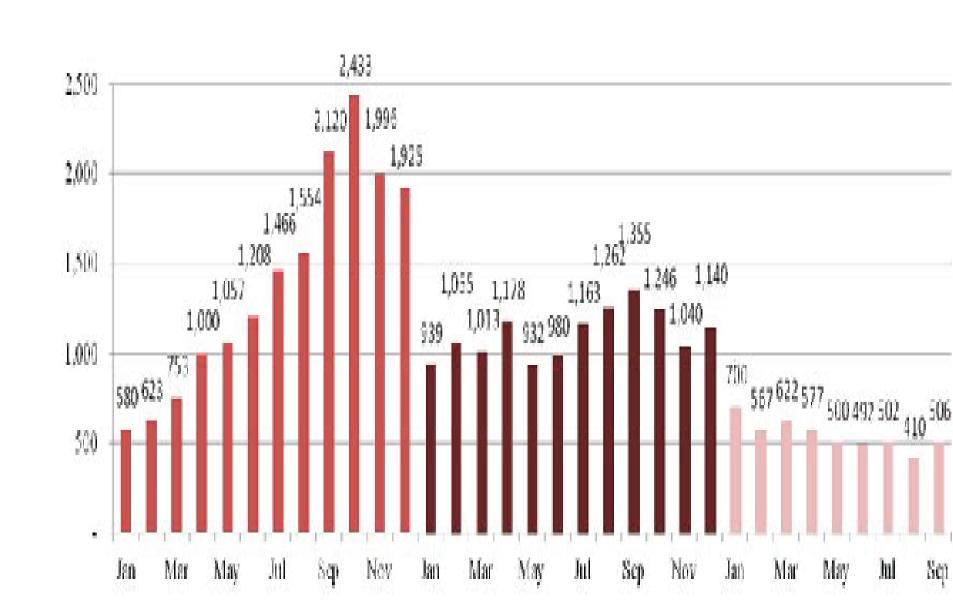


Hawaii Solar Energy Association



- HSEA incorporated in 1977 in Hawaii
- Currently has 90 member companies
- Supports the adoption of both solar hot water and photovoltaics

2012-2014 O'ahu PV Permits Issued





HECO's Proposals



- Clear majority of queue by April 2015
- Increase MDL to 250%
- Increased transparency
- Pilot on controlled export



NEM to schedule Q?



- PUC should determine "fairness"questions
- DER—Distributed Energy Resources (2014-0192) pending





What does schedule Q mean?

- Base rate + ECAC (energy cost adjustment charge)
- Ranges from 12-16 cents/kWh
- Anything else?



Uncompensated Benefits Under Proposed NEM Changes



- Reduced line loss
- Delayed need for upgrades
- Reduced afternoon peak
- Increased energy independence
- Customer invested and maintained
- Reduced greenhouse gas emissions





What does it cost?

Hawaiian Electric Company

Estimated Lost Contribution to Fixed Costs and Surcharges, based on NEM installations as-of December 31, 2013

							Production	Lost Contribution	Total
	Total Lost	Base Energy	Eff. PPAC3.	REIP & DSM⁴	RAM⁴	Eff. Base Energy Rate	Energy Rate ⁵	to Fixed Cost,	Lost Contribution
Rate	kWh/yr1	Rate2, cents/kWh	cents/kWh	cents/kWh	cents/kWh	Dec, cents/kWh	cents/kWh	cents/kWh	to Fixed Cost, \$/Yr
***************************************	A	В	С	D	E	F= sum(B:E)	G	H= F- G	J = A * H / 100
R	233,744,027	22.4707	3.3179	0.1278	0.5524	26.4688	15.3950	11.0738	\$25,884,346
G	6,437,210	21.3317	2.8427	0.1274	0.5524	24.8542	15.4450	9.4092	\$605,690
J	39,040,280	16.9734	2.5845	0.1274	0.5524	20.2377	15.4560	4.7817	\$1,866,789
P	635,304	14.9013	2.4266	0.1274	0.5524	18.0077	15.3860	2.6217	\$16,656
Total	279,856,820								\$28,373,481

	Total Lost	Forecast	Estimated	
	Contribution to	2014 Sales ⁶	Impact on	
Rate	Fixed Cost, \$/Yr	kWh/Yr	Rates, ¢/kWh	
	K = J	L	M = (K/L) * 100	
R	\$25,884,346	1		
G	\$605,690			
J	\$1,866,789	1		
P	\$16,656	\		
Total	\$28,373,481			/
Total Company		6,525,400,00	0.43	

Notes:

- 1 Annualized kWh generated from NEM Installations as of 12/31/13: Hawaiian Electric Distributed Technology Applications.
- 2 Source: Base Energy Rates from Docket 2010-0080 (HECO 2011 Test Year). sched R: Docket 2010-0080 (HECO 2011 Test Year); Final revised tariffs, Exhibit B, Attachment 1, page 5, filed 07/24/2012 . sched G: Docket 2010-0080 (HECO 2011 Test Year); Final revised tariffs, Exhibit B, Attachment 1, page 13, filed 07/24/2012 . sched J: Docket 2010-0080 (HECO 2011 Test Year); Final revised tariffs, Exhibit B, Attachment 1, page 24, filed 07/24/2012 . sched P: Docket 2010-0080 (HECO 2011 Test Year); Final revised tariffs, Exhibit B, Attachment 1, page 126, filed 07/24/2012.
- 3 PPAC Rates Effective December 2013.
- 4 REIP and DSM rate from effective rate summaries for December 2013, RAM based on Decoupling Calculation workbook, Schedule A (with settlement revised 05/14/13), page 1.
- 5 Source: Cost-of-service calculation, from Docket 2010-0080 (HECO 2011 Test Year); Final revised tariffs, exhibit C, page 80, filed 07/24/2012.
- 6 Source: Hawaiian Electric Sales Forecast, May 2013. Since the lost kWh in Column A represents kWh from all installations since the inception of Net Metering, part of the lost contribution to fixed cost is already reflected in utility rates.





Impact to a customer's bill

 At 0.35/kWh and 600 kWh of use= \$211.02

At 0.3543 kWh (0.35 + .0043) and 600 kWh use=
\$212.58







Immediate impact to customers

- Longer paybacks
- Leases less available
- GEMS—reduced value proposition









Thank you





leslie.cole-brooks@hsea.org



www.hsea.org