



Dean K. Matsuura
Manager
Regulatory Affairs

January 31, 2013

PUBLIC UTILITIES
COMMISSION

2013 JAN 31 P 3:42

FILED

The Honorable Chair and Members of the
Hawaii Public Utilities Commission
465 South King Street, First Floor
Kekuanaoa Building
Honolulu, Hawaii 96813

Dear Commissioners:

Subject: Docket No. 2008-0273 – Feed-in Tariff (“FIT”) Proceeding
FIT 2012 Annual Status Report

On September 25, 2009, through its Decision and Order in the above subject proceeding at Section II.D.4.a, the Commission ordered Hawaiian Electric Company, Inc., Hawaii Electric Light Company, Inc., and Maui Electric Company, Limited (collectively the “Companies”), to file annual status reports on the progress of the FIT program. On October 13, 2010, the Commission issued its Order Approving the Companies FIT Tiers 1 and 2 Tariffs, Standard Agreement, and Queuing and Interconnection Procedures. Subsequently, on December 29, 2011, the Commission issued Order No. 30074, approving with modifications the Companies FIT Tier 3 Tariff, Standard Agreement, and Queuing and Interconnection Procedures. Therefore, the Annual Reports have been expanded to include FIT Tier 3 systems. Accordingly, the Companies respectfully submit their 2012 Status Report on the progress of the FIT program which covers the period of time from January 1, 2012 through December 31, 2012.

Please contact Rosella Motoki at 543-4808 should you have any questions regarding the report.

Very truly yours,

Attachment

c: Service List

**Feed-In Tariff January 31, 2013 Report
Reporting Period Ending December 31, 2012**

Reporting Requirement (a):

(a): Number of project applications received by island, by resource type, by project size, and interconnection process (Rule 14H or IRS at sub-transmission level).

All applications received by the HECOFITIO website are reported, including applications that were duplicated by user error and subsequently terminated by the Independent Observer, applications withdrawn by the applicant and applications terminated because they did not meet the pre-qualifications of the FIT Program.

Interconnecting at the Distribution Level (Rule 14.H)															
Island	PV			On-Shore Wind			CSP			In-Line Hydro			Baseline		
	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3
Oahu	37	126	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii ¹	3	13	0	0	0	0	0	0	0	0	1	0	0	0	0
Maui	8	78	9	0	0	0	0	0	7	0	0	0	0	0	0
Molokai	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0
Lanai	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

¹ For those HELCO Tier 2 projects that are either in the reserve queue, therefore technical review is not applicable and the point of interconnection has not been determined, or for those projects that are undergoing an IRS and the point of interconnection has not been determined yet, for purposes of this report these projects are being included in the interconnection at distribution level figures.

Interconnecting at the Sub-Transmission / Transmission Level															
Island	PV			On-Shore Wind			CSP			In-Line Hydro			Baseline		
	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3
Oahu	0	0	19 ²	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	0	0	4 ³	0	0	0	0	0	0	0	0	0	0	0	0
Maui	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Molokai	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lanai	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

There were no MECO projects requesting to connect at the sub-transmission level.

Reporting Requirement (b):

(b): Number and status of projects currently in the Active / Reserve queue by island, by resource type, and by project size.

Island	PV			On-Shore Wind			CSP			In-Line Hydro			Baseline		
	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3
Oahu	17 / 0	61 / 67	6 / 13	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	3/0	37/27	0/5	0	0	0	0	0	0/1	0	0/1	0	0	0	0
Maui	7/0	21/14	2/7	0	0	0	0	0	0/7	0	0	0	0	0	0
Molokai	0	0	0	1/0	0	0	0	0	0	0	0	0	0	0	0
Lanai	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

² There are 5 applications in the HECO Tier 3 active queue that are undergoing an Interconnection Requirements Study (IRS) to connect at the sub-transmission level. One active queue project has not submitted sufficient data to conduct a technical review. There are 13 applications in the reserve queue that has not undergone a technical review to determine the point of interconnection. For the purpose of this report all the Tier 3 project are assumed to be connecting at the sub-transmission level.

³ There were 4 HELCO Tier 3 applications accepted into the reserve queue in 2012. Because these projects are in the reserve queue no technical review has been conducted to determine the point of interconnection, and these projects are included with the projects connecting at the transmission level for purposes of this report.

HECO Project Status:

- **HECO – PV –Tier 1:**

Number of Projects	Status
8	Waiting for further action from applicant
1	Technical review in progress
7	Project under construction
1	Project completed, awaiting meter installation

- **HECO – PV – Tier 2:**

Number of Projects	Status
19	Waiting for further action from applicant
10 / 23	Technical review in progress / IRS in progress
9	Project under construction
0	Project completed, awaiting meter installation

- **HECO – PV – Tier 3:**

Number of Projects	Status
1	Waiting for further action from applicant
5	Technical review in progress / IRS in progress
0	Project under construction
0	Project completed, awaiting meter installation

MECO Project Status:

- **Maui – PV –Tier 1:**

Number of Projects	Status
4	Waiting for further action from applicant
0	Technical review in progress
3	Project under construction
1	Project completed, awaiting meter installation

- **Maui – PV – Tier 2:**

Number of Projects	Status
7	Waiting for further action from applicant
5	Technical review in progress
8	Project under construction
1	Project completed, awaiting meter installation

- **Maui – PV –Tier 3:**

Number of Projects	Status
2	Waiting for further action from applicant
0	Technical review in progress
0	Project under construction
0	Project completed, awaiting meter installation

- **HELCO – PV – Tier 1:**

Number of Projects	Status
2	Waiting for further action from applicant
0	Technical review in progress
1	Project under construction
0	Project completed, awaiting meter installation

- **HELCO – PV – Tier 2:**

Number of Projects	Status
2	Waiting for further action from applicant
33	Technical review in progress
2	Project under construction
0	Project completed, awaiting meter installation

- **HELCO – PV – Tier 3:**

There are no applications in the HELCO Tier 3 active queue.

Reporting Requirement (c):

(c): Number of projects completed, interconnected, and contract signed by island, by resource type, and by project size.

Island	PV			On-Shore Wind			CSP			In-Line Hydro			Baseline		
	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3
Oahu	31	19	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
Maui	4	5	0	0	0	0	0	1	0	0	0	0	0	0	0
Molokai	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lanai	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

HECO

Tier	App #	City	Size (kW)
Tier 1	87 - 1	Honolulu	10
Tier 1	90 - 1	Honolulu	16
Tier 1	92 - 1	Honolulu	6
Tier 1	108 - 30	Kailua	5
Tier 1	108 - 34	Kailua	5
Tier 1	108 - 35	Kailua	15
Tier 1	108 - 36	Kailua	10
Tier 1	108 - 37	Kailua	15
Tier 1	108 - 38	Kailua	15
Tier 1	108 - 39	Kailua	15
Tier 1	108 - 40	Kailua	19
Tier 1	108 - 41	Kailua	5
Tier 1	108 - 42	Kailua	10
Tier 1	108 - 43	Kailua	15
Tier 1	108 - 44	Kailua	15
Tier 1	108 - 45	Kailua	15
Tier 1	108 - 46	Kailua	10
Tier 1	108 - 47	Kailua	10
Tier 1	108 - 48	Kailua	9
Tier 1	108 - 49	Kailua	13
Tier 1	108 - 50	Kailua	13
Tier 1	108 - 51	Kailua	13
Tier 1	108 - 52	Kailua	9
Tier 1	108 - 53	Kailua	9
Tier 1	108 - 54	Kailua	9
Tier 1	108 - 55	Kailua	4
Tier 1	108 - 56	Kailua	9
Tier 1	108 - 57	Kailua	10
Tier 1	108 - 58	Kailua	10
Tier 1	108 - 59	Kailua	10
Tier 1	161-02	Honolulu	20
Tier 2	14 - 1	Kapolei	347
Tier 2	14 - 4	Kapolei	272
Tier 2	38 - 11	Waipahu	28
Tier 2	38 - 12	Honolulu	153
Tier 2	38 - 17	Honolulu	138
Tier 2	71 - 7	Honolulu	50
Tier 2	78 - 1	Pearl City	64

Tier 2	90 - 7	Honolulu	57
Tier 2	90 - 1	Honolulu	235
Tier 2	90 - 2	Honolulu	200
Tier 2	90 - 3	Waipahu	75
Tier 2	93 - 2	Waianae	500
Tier 2	93 - 6	Waipahu	150
Tier 2	93 - 7	Honolulu	80
Tier 2	93 - 8	Waipahu	200
Tier 2	93 - 46	Waianae	500
Tier 2	93 - 69	Pearl City	200
Tier 2	93 - 70	Pearl City	100
Tier 2	100 - 1	Kahuku	500

HELCO

Tier	App #	City	Size (kW)
Tier 2	71-1	Keaau	95
Tier 2	79-1	Kailua-Kona	192
Tier 2	47-6	Kailua-Kona	100
Tier 2	47-7	Kailua-Kona	150

MECO⁴

Tier	App #	City	Size (kW)
Tier 1	57-1	Haiku	20
Tier 1	66-1	Paia	10
Tier 1	54-2	Kula	9
Tier 1	81-1	Wailuku	8
Tier 2	59-1	Kihei	500
Tier 2	56-3	Kahului	48
Tier 2	60-1	Wailuku	42
Tier 2	56-2	Makawao	150
Tier 2	22-1	Kahului	200
Tier 2	56-1	Haiku	100

⁴ Two MECO Tier 1 PV projects on Molokai terminated their FIT Agreement in 2012, converting back to Net Energy Metering.

Reporting Requirement (d):

(d): Total kilowatt-hour purchased through FITs during the calendar year by island, by resource type, and by project size.

Island	PV			On-Shore Wind			CSP			In-Line Hydro			Baseline		
	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3
Oahu	62,026	3,725,206	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	0	204,600	0	0	0	0	0	0	0	0	0	0	0	0	0
Maui	54,346	758,779	0	0	0	0	0	265,800	0	0	0	0	0	0	0
Molokai	22,578	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lanai	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Reporting Requirement (e):

(e): Total amount in dollars⁵, (NET) of the power purchased through FITs during the calendar year by island, by resource type, and by project size.

Island	PV			On-Shore Wind			CSP			In-Line Hydro			Baseline		
	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3
Oahu	\$13,916.09	\$743,841.66	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	0	\$38,219.40	0	0	0	0	0	0	0	0	0	0	0	0	0
Maui	\$10,626.94	\$148,999.91	0	0	0	0	0	\$67,388.20	0	0	0	0	0	0	0
Molokai	\$3,922.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lanai	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

⁵ Payments include retroactive adjustments made to projects that provided tax documentation to qualify for the higher energy payment rate.

Reporting Requirement (f):

(f): Number and duration of curtailments and the reason for each curtailment during the year by island and by project.

MECO TIER 2 PV; APP 52-1

Notes:

- 1) There were several curtailment events on Maui that resulted in sending a curtailment signal to PV project 52-1 to adhere to the curtailment hierarchy. The majority of these events (146 out of 151) occurred at night when the PV facility was not generating energy; all events are included in this report. Only a minimal amount of generation was curtailed during the day while the system was producing energy.
- 2) The FIT Seller was compensated for the estimated generation during the period they were curtailed due to operator error. This excluded nighttime hours when the facility would have been unable to generate energy.

Reason	Number	Duration (hh:mm)
Communications Problem	1	4:14
Excess Energy	122	556:53
Excess Energy & Maintain Regulating Reserve	10	42:53
Excess Energy & Testing	2	16:45
Excess Energy & Operating Conditions on Company's System	1	15:01
Maintain Regulating Reserve	12	37:59
Operating Conditions on Company's System	1	60:58
Operator Error	1	18:25
System Emergency Power Surge	1	1:44
TOTAL	151	754:52

HECO did not have any FIT curtailments.

HELCO did not have any FIT curtailments.

The islands of Molokai and Lanai had no FIT curtailments.

Reporting Requirement (g):

(g): Program administration information such as the time spent to complete processing a project application from date of receipt of contract application to interconnecting the project in the system - by island, by resource type, and by project size.

Time shown in hours⁶:

Island	PV			On-Shore Wind			CSP			In-Line Hydro			Baseline			Fit Program Admin ⁷
	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	
Oahu	11.5	237.5	86.25	0	0	0	0	0	0	0	0	0	0	0	0	10,493 ⁸
Hawaii	2	480	0	0	0	0	0	0	0	0	0	0	0	0	0	807
Maui	4.5	99	0	0	0	0	0	13	0	0	0	0	0	0	0	407
Molokai	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lanai	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

⁶ Resource type hours shown reflect time through technical review categorized by Tier, by island.

⁷ Hours reported for FIT Program administration include general program administration, website development and other tasks related to the implementation of the FIT. These hours are not specific to any particular project, technology, island or tier. Internal labor hours do not include outside services.

⁸ HECO labor hours include 1,489 hours of temporary hire labor.

SERVICE LIST
(Docket No. 2008-0273)

JEFFREY T. ONO
EXECUTIVE DIRECTOR
DEPT OF COMMERCE & CONSUMER AFFAIRS
DIVISION OF CONSUMER ADVOCACY
P.O. Box 541
Honolulu, Hawaii 96809

2 Copies
Via Hand Delivery

GREGG J. KINKLEY, ESQ.
DEPARTMENT OF THE ATTORNEY GENERAL
425 Queen Street
Honolulu, Hawaii 96813
Counsel for DBEDT

1 Copy
Electronically Transmitted

GORDON D. NELSON, ESQ.
DEPARTMENT OF THE CORPORATION COUNSEL
CITY AND COUNTY OF HONOLULU
530 South King Street, Room 110
Honolulu, Hawaii 96813

1 Copy
Electronically Transmitted

LINCOLN S.T. ASHIDA, ESQ.
WILLIAM V. BRILHANTE JR., ESQ.
MICHAEL J. UDOVIC, ESQ.
DEPARTMENT OF THE CORPORATION COUNSEL
COUNTY OF HAWAII
101 Aupuni Street, Suite 325
Hilo, Hawaii 96720

1 Copy
Electronically Transmitted

MR. HENRY Q CURTIS
MS. KAT BRADY
LIFE OF THE LAND
76 North King Street, Suite 203
Honolulu, Hawaii 96817

1 Copy
Electronically Transmitted

MR. WARREN S. BOLLMEIER II
PRESIDENT
HAWAII RENEWABLE ENERGY ALLIANCE
46-040 Konane Place, #3816
Kaneohe, Hawaii 96744

1 Copy
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SERVICE LIST
(Docket No. 2008-0273)

DOUGLAS A. CODIGA, ESQ. SCHLACK ITO LLLC TOPA FINANCIAL CENTER 745 Fort Street, Suite 1500 Honolulu, Hawaii 96813 Counsel for BLUE PLANET FOUNDATION	1 Copy Electronically Transmitted
LESLIE COLE-BROOKS, ESQ HAWAII SOLAR ENERGY ASSOCIATION 6077 A Summer Street Honolulu, Hawaii 96821	1 Copy Electronically Transmitted
MR. RILEY SAITO SOLAR ENERGY INDUSTRIES ASSOCIATION 73-1294 Awakea Street Kailua-Kona, Hawaii 96740	1 Copy Electronically Transmitted
JOEL K. MATSUNAGA HAWAII BIOENERGY, LLC 1100 Alakea Street, 30 th Floor Alakea Corporate Tower Honolulu, Hawaii 96813	1 Copy Electronically Transmitted
KENT D. MORIHARA, ESQ. KRIS N. NAKAGAWA, ESQ. LAUREN M. IMADA-LEE, ESQ. MORIHARA LAU & FONG LLP 841 Bishop Street, Suite 400 Honolulu, Hawaii 96813 Counsel for HAWAII BIOENERGY, LLC Counsel for MAUI LAND & PINEAPPLE COMPANY, INC.	1 Copy Electronically Transmitted
DANIEL A. KING SEMPRA GENERATION 101 Ash Street, HQ 12 San Diego, California 92101	1 Copy Electronically Transmitted
BRODY MCMURTRY SOPOGY INC. 550 Paiea Street, Suite 236 Honolulu, Hawaii 96819	1 Copy Electronically Transmitted

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(Docket No. 2008-0273)

GERALD A. SUMIDA, ESQ. TIM LUI-KWAN, ESQ. NATHAN C. SMITH, ESQ. CARLSMITH BALL LLP ASB Tower, Suite 2200 1001 Bishop Street Honolulu, Hawaii 96813 Counsel for HAWAII HOLDINGS, LLC, dba FIRST WIND HAWAII	1 Copy Electronically Transmitted
SANDRA-ANN Y.H. WONG, ESQ. ATTORNEY AT LAW, A LAW CORPORATION 1050 Bishop Street, #514 Honolulu, HI 96813 Counsel for TAWHIRI POWER LLC	1 Copy Electronically Transmitted
JAMES MIYASHIRO, ESQ. ALEXANDER & BALDWIN, INC. through its division, HAWAIIAN COMMERCIAL & SUGAR COMPANY 822 Bishop Street Honolulu, HI 96813	1 Copy Electronically Transmitted
ISAAC H. MORIWAKE DAVID L. HENKIN EARTHJUSTICE 223 South King Street, Suite 400 Honolulu, Hawaii 96813-4501	1 Copy Electronically Transmitted
HAROLD T. JUDD, PRESIDENT ACCION GROUP 244 North Main Street Concord, NH 03301	1 Copy Electronically Transmitted