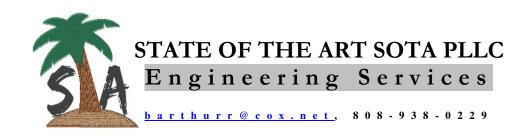


## Residential Grid-Tie, No Batteries

updated 2/11/2019

Estimated Engineering Fees: PV Energy System Electrical Design Hawaii				
Type of Design	System Size (kW)  X = Total  Inverter(s) kW	Number of Inverters	Big Island, Maui, Kauai, Molokai, Lanai Estimated Fees Not including Tax, Shipping, Paper	Oahu Estimated Fees Not including Tax, Shipping, Paper. Plus hourly DPP fees for unreasonable requests / tactics
Residential Grid-Ti	e, <u>No</u> Batteries			
		1	\$525	Ask for Proposal
Residential Grid-	$X \leq 7kW$	2	\$550	Ask for Proposal
Tie, <u>No</u> Batteries	(typical system)	3	\$575	Ask for Proposal
		4	\$625	Ask for Proposal
(Information	$7kW < X \le 14kW$	1	\$700	Ask for Proposal
Provided by Client: Elevations,		2	\$750	Ask for Proposal
Equipment Locations	$/KW < A \leq 14KW$	3	\$800	Ask for Proposal
on Floor Plan, & Site		4	\$850	Ask for Proposal
Layout are		1	\$800	Ask for Proposal
Incorporated into the Electrical Drawings	$14kW < X \le$	2	\$850	Ask for Proposal
All Drawings are	21kW	3	\$900	Ask for Proposal
signed and stamped)		4	\$950	Ask for Proposal
	21kW < X	Any	Ask for Proposal	Ask for Proposal

Note: **Microinverter** systems such as **Enphase** are considered to be (1) inverter for each branch or string of multiple inverters.



## Residential Grid-Tie, With Batteries

updated 2/11/2019

Estimated Engineering Fees: PV Energy System Electrical Design Hawaii				
Type of Design	System Size (kW)  X = Total  Inverter(s) kW	Number of Inverters	Big Island, Maui, Kauai, Molokai, Lanai Estimated Fees Not including Tax, Shipping, Paper	Oahu Estimated Fees Not including Tax, Shipping, Paper. Plus hourly DPP fees for unreasonable requests/tactics
Residential Grid-Tie,	With Batteries		•	
		1	\$575	Ask for Proposal
	$X \leq 7kW$	2	\$600	Ask for Proposal
Residential Grid-Tie,	(typical system)	3	\$650	Ask for Proposal
With Batteries		4	\$700	Ask for Proposal
		1	\$750	Ask for Proposal
(Information Provided by	$7kW < X \le 14kW$	2	\$800	Ask for Proposal
Client: Elevations,	$/KW < X \leq 14KW$	3	\$850	Ask for Proposal
Equipment Locations on Floor Plan, & Site		4	\$875	Ask for Proposal
Layout are Incorporated		1	\$850	Ask for Proposal
into the Electrical	$14kW < X \le 21kW$	2	\$900	Ask for Proposal
Drawings All Drawings	$  1 + KW \leq A \geq 21KW$	3	\$950	Ask for Proposal
are signed and stamped)		4	\$1,000	Ask for Proposal
	21kW < X	Any	Ask for	Ask for Proposal
			Proposal	

Note: **Microinverter** systems such as **Enphase** are considered to be (1) inverter for each branch or string of multiple inverters.



## **Residential Off-Grid With Batteries**

updated 2/11/2019

Estimated Engineering Fees: PV Energy System Electrical Design Hawaii						
Type of Design	System Size (kW)  X = Total  Inverter(s) kW	Number of Inverters	Big Island, Maui, Kauai, Molokai, Lanai Estimated Fees Not including Tax, Shipping, Paper	Oahu Estimated Fees Not including Tax, Shipping, Paper. Plus hourly DPP fees for unreasonable requests / tactics		
Residential Off-Grid	Residential Off-Grid					
Residential Off-	$X \le 7kW$ (typical system)	1	\$575	Ask for Proposal		
Grid		2	\$600	Ask for Proposal		
Gilu		3	\$650	Ask for Proposal		
(Information		4	\$725	Ask for Proposal		
Provided by Client. Elevations, Cut- Sheets, Equipment Locations on Floor Plan, & Site Layout	$7kW < X \le 14kW$	Any	Ask for Proposal	Ask for Proposal		
are Incorporated into the Electrical Drawings All Drawings are signed	14kW < X ≤ 21kW	Any	Ask for Proposal	Ask for Proposal		
and stamped)	21kW < X	Any	Ask for Proposal	Ask for Proposal		

Note: **Microinverter** systems such as **Enphase** are considered to be (1) inverter for each branch or string of multiple inverters.



## **COMMERCIAL**

updated 2/11/2019

Estimated Engineering Fees: PV Energy System Electrical Design Hawaii						
Type of Design	System Size (kW) X = Total Inverter(s) kW	Number of Inverters	Big Island, Maui, Kauai, Molokai, Lanai Estimated Fees Not including Tax, Shipping, Paper	Oahu Estimated Fees Not including Tax, Shipping, Paper. Plus hourly DPP fees for unreasonable requests / tactics		
<b>Commercial Grid-T</b>	Commercial Grid-Tie, No Batteries					
	$X \le 7kW$ (typical system)	1 2 3 4	\$625 \$650 \$700 \$750	Ask for Proposal Ask for Proposal Ask for Proposal Ask for Proposal		
Commercial Grid- Tie, No Batteries	$7kW < X \le 14kW$	1 2 3 4	\$800 \$850 \$900 \$950	Ask for Proposal Ask for Proposal Ask for Proposal Ask for Proposal		
by Client: Elevations, Equipment Locations on Floor Plan, & Site Layout are Incorporated into the	14kW < X ≤ 21kW	1 2 3 4	\$925 \$975 \$1,025 \$1,075	Ask for Proposal Ask for Proposal Ask for Proposal Ask for Proposal		
Electrical Drawings All Drawings are signed and stamped)	21kW < X ≤ 30kW 30kW < X ≤	Any Any	\$1,500 \$1,900	Ask for Proposal  Ask for Proposal		
	50kW 50kW < X ≤ 75kW	Any	\$2,700	Ask for Proposal		
	75kW < X	Any	\$0.035 per Watt	Ask for Proposal		

Note: **Microinverter** systems such as **Enphase** are considered to be (1) inverter for each branch or string of multiple inverters.