



# STATE OF THE ART SOTA PLLC

## Engineering Services

[barthurr@cox.net](mailto:barthurr@cox.net), 808-938-0229

### Residential Grid-Tie, No Batteries

updated 2/11/2019

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

Additional fees may apply for changes after the drawing has been accepted by the client.



**STATE OF THE ART SOTA PLLC**  
**Engineering Services**

[barthurr@cox.net](mailto:barthurr@cox.net), 808-938-0229

**Residential Grid-Tie, With Batteries**

updated 2/11/2019

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

Note: **Microinverter** systems such as **Enphase** are considered to be (1) inverter for each branch or string of multiple inverters.  
 Additional fees may apply for changes after the drawing has been accepted by the client.



**STATE OF THE ART SOTA PLLC**  
**Engineering Services**

[barthurr@cox.net](mailto:barthurr@cox.net), 808-938-0229

**Residential Off-Grid With Batteries**

updated 2/11/2019

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



# STATE OF THE ART SOTA PLLC Engineering Services

[barthurr@cox.net](mailto:barthurr@cox.net), 808-938-0229

## COMMERCIAL

updated 2/11/2019

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