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Photo

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## *4.6kW Residential Photovoltaic System*

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**February 23, 2026 / Quote No. 51666 / QA Test Proposal, 1234 Test St, Honolulu, Hawaii**

## Introduction

### Congratulations

Welcome to Alternate Energy Inc's. Energy Analysis and Proposal for a grid tied photovoltaic system to be considered for the **Proposal's** residence of **1234 Test St.** The purpose of this document is to illustrate the advantages for you, your household and the environment by installing a gridtied photovoltaic system with Alternate Energy Inc.

### Three Generations

Alternate Energy Inc. (AEI) is a familyowned and operated business with a long history of serving kamaaina. More than 30 years ago, Bruce Ekimura, a plumber by trade, realized that harnessing the power of the sun could help Hawaii families combat the rising price of electricity and help our state become less dependent on imported oil. Bruce and his father became early specialists in the installation of solar hot water heaters, and later photovoltaic (PV) systems, and in 1993 Alternate Energy was officially incorporated.

Today, as rising oil prices continue to keep electricity rates soaring, Alternate Energy remains committed to helping local families and businesses discover the clean, green, moneysaving power of the sun.

### Elite Installer

Alternate Energy Inc. recently achieved the status of Panasonic Solar's first and only recognized Elite Installer in the state of Hawaii. This means that we are Certified and trusted by Panasonic Solar to sell and install its premium monocrystalline solar panels in Hawaii.



### Elite Training & Certification

All of our highly skilled solar technicians are employees (not subcontractors) annually Trained and Certified by Panasonic Solar to design, install and service all of your PV needs.

### Elite Products

We understand that photovoltaic systems are a long term investment. That's why we invest in the most reliable companies that have been trusted for years. Panasonic Solar's premium solar panels are among the highest efficiency and highest rated panels in the industry.

The solar panels are also designed and warrantied for installations near salt water for long lasting performance.

### Elite Service

Being family-owned and operated, we take pride in every job and make sure each customer is satisfi ed, every time. We are Hawaii's expert solar company since 1993.

This system will prevent  
86.65  
lbs sulfur dioxide (causes  
acid rain) from being  
released  
into Hawaii's rainforests.

# Power Production Estimate

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## Customer Details

Current Average Usage:	800kWh
Current Utility Bill:	\$ 2.80
Solar Sunshine Zone:	450
Peak Sun Hours for Production:	5.2 hrs
Current Utility Rate:	0.35 c/kWh

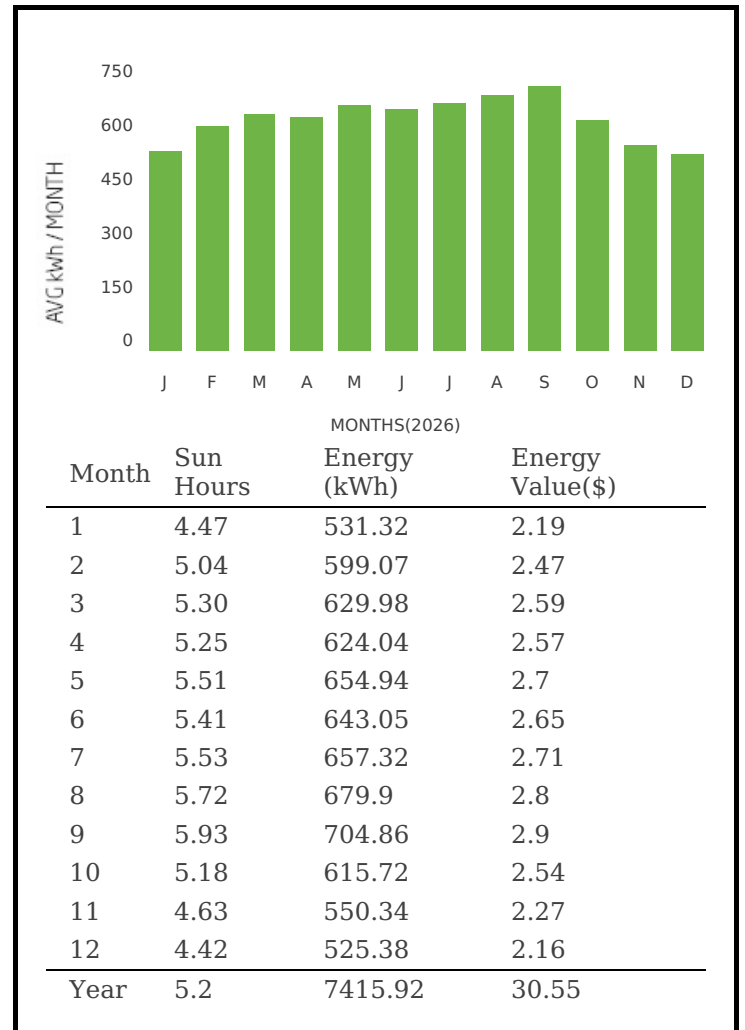
## PV System Specifications

Deal Type:	
System Size (DC Rating, kW):	4.60
DC to AC Derate Factor:	.85
System Size (AC Rating, kW):	3.91
Module Type:	REC 460W Pure Black
Number of Modules:	10
Module Power:	460 W
Module Dimensions:	64" x 40.1"
Inverter Type:	IQ8X - 384
Number of Inverters :	1
Array Azimuth (Orientation):	180 degree
Roof Tilt:	22 degree
Roof Type:	Asphalt shingle (quickmount)
Additional Requirements:	

## Energy Production & Savings

Current Energy Usage:	800 kWh / Month
Energy Offset Due to PV System:	77%
Monthly Energy Production (kWh):	618 kW / Month
New Estimated Utility Bill (\$):	\$18.00 / Month
Monthly Average Savings (\$):	\$2 / Month
Annual Average Production (kWh):	7,416 kWh / Year
First Year Estimated Estimated Savings (\$):	\$30.55 / Year

## Monthly Production Estimates\*



\*Exclusions: Broken glass or any damage caused by natural causes. Any tampering or any damage caused by a Non-Alternate Energy Inc. employee voids warranties. See Alternate Energy Inc. Warranty sheet for more details. \*\*Tax credit amounts are estimates. Consult with your tax advisor, accountant or appropriate taxing authority to confirm eligibility and how these credits should be calculated for your individual situation.\*\*\*Customer has 3 days after signing this Purchase Agreement to cancel installation. Any cancellations after that are subject to a 2.5% administrative fee.

# PV System Investment

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## Customer Details

Name	QA Test Proposal
Street Address	1234 Test St
City, Zip Code, State	Honolulu, 96813, HI
Property Type	Single Family Home
Primary Phone ,Secondary Phone:	808-555-0199
Email	qatest@aeihawaii.com

26.16 lbs of carbon dioxide (leading cause for greenhouse gases) will be avoided by your PV system.

## AEI's Premium PV System Cost

System Price:	\$23,875.01
Sub Total:	\$23,875.01
General Excise Tax (4.712%):	\$1,124.99
<b>Total Payable:</b>	<b>\$25,000.00</b>

## Basic Tax Benefits

<b>U.S. Federal Tax Credit 202600%:</b>	<b>(\$50,650,000.00)</b>
<b>Hawaii State Tax Credit 35%:</b>	<b>(\$5,000.00)</b>
System #1 (4.60 kW):	\$5,000.00
Total Basic Tax Credits:	(\$50,655,000.00)
<b>Total Net System Cost w/ Tax Benefits:</b>	<b>\$-50,630,000.00</b>
Estimated Annual Savings:	\$30.55
Simple Payback:	-1,657,283.14Years
Price Per Watt Installed:	\$5.43/W

\*Exclusions: Broken glass or any damage caused by natural causes. Any tampering or any damage caused by a Non-Alternate Energy Inc. employee voids warranties. See Alternate Energy Inc. Warranty sheet for more details. \*\*Tax credit amounts are estimates. Consult with your tax advisor, accountant or appropriate taxing authority to confirm eligibility and how these credits should be calculated for your individual situation.\*\*\*Customer has 3 days after signing this Purchase Agreement to cancel installation. Any cancellations after that are subject to a 2.5% administrative fee.

# Photovoltaic System Summary

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## Type of Modules: REC ALPH ☐ Pure2 Black Series

Super-efficient performance through the most advanced cell structure to capture more sunlight. Highest power density ( $\text{W/m}^2$ ) gets the most energy out of a limited space. Lowest warranty claims rate in solar.

**Module Model:** REC460W Pure2 Black

**Manufacturer Warranty:** 25 years Product, Performance, and Labor. Guarantees 92.3% power after 25 years.


## Type of Inverter: Enphase Microinverter

Our newest IX8 Microinverters are the industry's first grid-forming microinverters with split-phase power conversion capability to convert DC power to AC power efficiently. The brain of the semiconductor-based microinverter is our proprietary application-specific integrated circuit (ASIC) which enables the microinverter to operate in grid-tied or off-grid modes. This chip is built in advanced 55nm technology with high speed digital logic and has super-fast response times to changing loads and grid events, alleviating constraints on battery sizing for home energy systems.


**Inverter Type:** Enphase IQ8X

**Manufacturer Warranty:** 25 Years

## Module Racking System

IronRidge Solar Roof Racking  accommodate some of the longest spans in the industry, reducing the number of roof attachments and saving time and money

## Roof Flashing

IronRidge FlashFoot2 raises the bar  in solar roof protection. The unique water seal design is both elevated and encapsulated, delivering redundant layers of protection against water intrusion.

## Hardware & Accessories

The hardware like nuts and bolts used in our installations are all stainless steel. This is to ensure a long lasting installation and foundation for your photovoltaic system.



## Final Analysis

### Your Solar Future

What can you be sure of in times like this? You can be sure that your PV system will pay for itself while saving you money. As an investment property your PV system will yield a steady return

### Assured Warranty

When you choose AEI, you get more than a well trained and professional staff. You also get AEI's thirty years of proven reliability, outstanding customer support and the assurance of our

The power output degradation will not fall under 92% of the designated minimum power output.

Enphase's microinverter has a manufacturer's warranty of 25

year after year regardless of what the economy is doing, protecting your household from rate hikes.

45.78 lbs of nitrogen oxides  
(causes smog) avoided

10-year workmanship guarantee to the original end-user.

Workmanship warranty covers any type of roof damage, roof leaks, or damage caused by roof leaks, as a result of defects in AEI's installation or repairs. AEI does not warrant the condition of the roof or the roof structure and excludes glass breaking on the photovoltaic module through misuse, abuse, lack of reasonable care, failure of the customer to maintain the property, building and improvements in good condition, alteration or any other failure not resulting from defects in materials or workmanship in the installation. AEI is not responsible for any damages or losses relating to the decrease in output or storage which any occur during the pendency of or delays with warranty claim processing , repairs and/or replacement of parts pursuant to any applicable warranties.

AEI includes the first 5 years of labor on any PV panels or inverter/optimizer replacement at no charge. For additional information, please see our Terms and Conditions.

### **Manufacturer Warranties:**

Panasonic Solar,Hyundai Energy Solutions and REC Alpha Series warrants the power output of their PV panels for twenty-five years.

years.

All of our SolarEdge installations include a 25 year warranty for power optimizers and a 12 year warranty for inverters from the manufacturer.

Our Home Energy Storage Solution (HESS) has a manufacturer's warranty of 10 years.

These warranties are manufacturer's warranties. AEI will assist the customer if filing a claim with the manufacturer in the event the power output is lower than the minimum power output, however, AEI is not responsible for any damages or losses due to the difference in the warranted power output and actual output or storage which may occur during the pendency of or delays with claim processing, repairs and/or replacement of parts pursuant to any applicable warranties.Trip fees may apply for warranty repairs.

### **Conclusion**

Thank you for the opportunity to present you with a proposal for your grid-tied solar electric system. Alternate Energy Inc. is delighted to be working with you. Please let us know what we can do to win your business.

# Purchase Agreement (PV)



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## Customer Details

Name	QA Test Proposal
Street Address	1234 Test St
City, Zip Code, State	Honolulu, 96813, HI
Property Type	Single Family Home
Primary Phone ,Secondary Phone:	808-555-0199
Email	qatest@aeihawaii.com

## PV System Specifications

Deal Type:	
System Size (DC Rating, kW):	4.60
Number of Physical Systems:	10
Module Type:	REC 460W Pure Black
Number of Modules:	10
Inverter Type:	IQ8X - 384
Number of Inverters :	1
Roof Type:	Asphalt shingle (quickmount)
Charging Cable:	No
Additional Requirements:	
Location :	Oahu
Solar Insure added:	No

## AEI's Premium PV System Cost

PRICE SUMMARY	
System Price:	\$23,875.01
Sub Total:	\$23,875.01
General Excise Tax (4.712%):	\$1,124.99
<b>Total Payable:</b>	<b>\$25,000.00</b>
TAX INCENTIVES	
Federal Tax Credit (202600%)*:	(\$50,650,000.00)
Hawaii Tax Credit (35%)*:	(\$5,000.00)
<b>Net Cost (w/ Tax Credits):</b>	<b>\$-50,630,000.00</b>

All Alternate Energy Inc. estimates and prices are valid for 30 days from the date of quotation.

## Payment Details

Method of Payment:	Cash
Payment Notes:	QA test proposal

## Customer Agreement & Contract

I, the Buyer, agree to pay Alternate Energy, Inc. the Total Payable Amount for the material and labor described in this Purchase Agreement (PV), subject to and including all of Alternate Energy Inc.'s Photovoltaic Installation Terms & Conditions (attached), which I have initialed and also signed, Alternate Energy Inc's Installation Warranty, and subject to additions and deductions pursuant to authorized change orders. I will pay a 50% down payment of the Total Payable Amount upon signing of this Purchase Agreement and the balance when the PV system installation is completed.*	
Austin Yearout	Feb 23,2026
Authorized Agent	Date
Bruce Ekimura	Feb 23,2026
President and Principal RME (Lic. No. C-26041)	Date
QA Test Proposal	Feb 23,2026
Customer Print & Signature	Date
Cancellations made within 24 hours of installation, outside of Force Majeure, will incur a \$500 restocking fee.	

\* Estimate PV production values are provided for illustrative purposes only and should not be construed as predicted and exact energy production. Hypothetical PV performance results are simulated and have many inherent factors that may affect your PV system's performance. As your PV system has not actually been installed and put into service, the results may have under or over compensated for any impact of certain assumption and weather factors, such as but not limited to your assumption in daytime vs. nighttime loads and/or cloudy and rainy days. Any methods, techniques, or assumptions presented in this email are for educational purposes only and are presented to assist you to make your own judgments on sizing your PV system (for which

you are responsible). Any information or data contained in this PV estimate is historical and provides no indication of future performance. All tax incentives that are displayed are for illustration purposes only. Alternate Energy Inc. is not responsible for any tax advice. Please consult with a certified public account (CPA) for your own tax advice. \*\* All Alternate Energy Inc. estimates and prices are valid for 30 days from the date of quotation.