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Finance | Energy | Development

Solar Home Plus
Solar Photovoltaic System Proposal

Proposal Summary

The proposal will generate its findings based on an average rate of PHP 10.00/kWh by its distribution utility. Other factors including inflation, degradation, and the like, present projections, which are on a worst-case basis. This proposal presents the financial, technical and engineering aspects of the project.

Project Design

System Description	
System Size	**5.1 kWp**
Type	Grid-Tied
Annual Production (Energy Output in kWh)*	6386 kWh
Project Life	25 Years
System Components	
Canadian Solar 300 watts Polycrystalline Panels	17 Pcs
Canadian Solar Inverters	For final design
Buskowitz Racking	1 set
Online Monitoring System	1 set

Option 1: Outright Purchase

System Cost Breakdown	
Project Cost Subtotal	PHP 372,321.43
10% Cash Discount	PHP 37,232.14
Project Cost Subtotal	PHP 335,089.29
VAT	PHP 39,168.00
TOTAL (VAT-INC.)	**PHP 375,300.00**

Payment Terms:

- 80% Upon Signing
- 15% Upon Goods on Site
- 5% Upon Testing, Commissioning and Handover

Option 2: Buskowitz Financing

Financing Details	
Size of Solar PV System	5.1 kWp
Project Cost (VAT Inclusive)	**PHP 417,000.00**
50% Down Payment (VAT Inclusive)	PHP 208,500.00
Principal Loan (VAT Inclusive)	PHP 208,500.00
Interest Rate (per annum)	0%
Loan Term (months)	6
Monthly Amortization (VAT Inclusive)	PHP 34,750.00

Important Notes:

- Client is responsible for providing stable and reliable Wi-Fi connection for the online monitoring system.
- Ownership remains with Buskowitz until the end of payment term.
- **Price is exclusive of applicable logistic fees and per diem outside Metro Manila.**
- **Price is only applicable to standard installations. Customized arrangements and other special requests shall be subject to additional fees.**
- Quotation is valid for 30 days.

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Scope of Works

I. **Feasibility**

- Site Audit & Screening Studies
- Outline Feasibility Studies
  - Assessment of Site Solar Energy Resource and Energy Yield Prediction
  - Assessment of Key Technical Environmental & Planning Constraints
  - Identification of Candidate Technology (PV Modules, Inverters, Mounting, Racking, etc.) and initial layout design
- Detailed Feasibility Studies
  - Detailed Assessment of Site Solar Energy Resource & Bank Yield Energy Yield Prediction
  - Simulation Studies
  - Project Design and Layout Optimization
  - Planning

II. **Design and Development Services**

- Structural Requirement Analysis
- Project Sizing and Design Optimization
- Technology Assessment & Equipment Specification
- Preliminary Plans
  - Location Map
  - Roof Panel Layout
  - Single-Line Diagram

III. **Procurement & Delivery**

- Equipment Importation & Insurance
  - Solar PV Modules
  - Inverters, Optimizers and Accessories
  - Racking / Mounting System
- Customs Clearance
- Local Logistics
- Local Equipment Procurement

IV. **Permits & Registration**

- Electrical Permit / Certificate of Final Electrical Inspection Processing
- Coordination / Registration with Local Distribution Utility

V. **Construction & Project Management**

- Project and Site Management
- Project Design Review
- Safety Management Plan
- Installation
  - Segregation and Hauling of Materials
  - Installation of Mounting Materials
  - Installation of Solar PV System
  - Wiring of DC Cable
  - Installation of Inverters
  - Connection to Grid
- Built to Specifications Comparison

VI. **System Testing and Commissioning**

- Review of Pre-Commissioning Checklist
- Commissioning, Plant Testing & Issuing of Take-Over Certificates

VII. **Documentation & Handover**

- Testing & Commissioning Report
- Inverter Manuals
- Supplier Warranties
- Directory
- As-built Plans

- Location Map
- Roof Panel Layout
- Single-Line Diagram
- Inverter-Panel Stringing Layout

Major Component Warranties	
Solar PV Panels (Canadian Solar)	Twenty-five (25) years insurance-backed warranty non-cancelable, immediate (Canadian Solar) warranty insurance linear power output warranty Ten (10) years product warranty on materials and workmanship. Canadian Solar guarantees that for a period of twenty- five years the module will maintain a performance as set forth below: For Polycrystalline Module Products: • During the first year, Canadian Solar guarantees the actual power output of the module will be no less than 97.5% of the labeled power output. • From year 2 to year 25, the actual annual power decline will be no more than 0.7 %; by the end of year 25, the actual power output will be no less than 80.7 % of the labeled power output. In the event it is determined that there is a negative deviation of actual performance from the warranted values then Canadian Solar, at its option, will compensate for such loss in power by either providing to the Buyer additional modules to make up the total wattage loss, or by repairing or replacing the modules or providing an appropriate residual market value of the product(s) as compensation. More information shall be given as requested.
Inverters (Canadian Solar)	Ten (10) years factory warranty. More information shall be given as requested.
Workmanship	Two (2) years ERA is liable to correct defects in the areas of work during the two (2) year period caused directly by the solar pv installation. ERA will facilitate warranty claims within this period on behalf of the client for any of the main components.

Environmental Impact

Total MWh produced over 25 years: 150 MWh

The sum of the greenhouse gas emissions above, is of **112** Metric Tons of Carbon Dioxide Equivalent. This is equivalent to:

Greenhouse gas emissions from:

39

Tons of waste recycled instead of landfilled

441,560

km driven by an average passenger vehicle

Carbon sequestered by:

2,901

tree seedlings grown for 10 years

53

hectares of Philippine forests in one year

CO2 emissions from:

53

litres of gasoline consumed

17

homes' electricity use for one year

47,683

Pounds of coal burned

259

barrels of oil consumed

By signing below, you confirm that the terms and conditions of this proposal are acceptable to you. Upon receipt of signed proposal, we shall send the invoice for down payment that will commence project management. The implementation team of Buskowitz will get in touch with you to schedule installation with the project team. Do note that this is subject to availability and scheduling. Thank you and congratulations on going green!

CONFORME:

_____
Indicate Procurement Option (1 or 2)

_____
Signature Over Printed Name

_____
Date

*Attach copies of 2 government issued IDs

RECEIVED BY:

_____
Iris Cordero | Business Development Officer
Buskowitz

_____
Date

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About Us

Buskowitz envisions itself as a leading integrated sustainable energy and solutions company with primary focus on Solar Photovoltaic, providing Philippine residents and business owners with easier and cost-effective access to sustainable solutions. Ultimately, this will benefit our country through the active promotion and use of green energy while providing our shareholders lucrative returns.

We contribute to sustainable development efforts by helping developers, building owners, and operators fulfil their responsibility to preserve the environment and use local resources efficiently. However, despite the world's focus on sustainable initiatives, most local financial institutions have failed to adapt to this burgeoning trend. As most local banks are not yet comfortable with the lending or leasing concept of Solar Photovoltaic (PV) systems, we decided to integrate quality Solar PV installations with highly demanded financing solutions for people looking to implement environmentally responsible systems with ease.

Buskowitz enables private investors to be a part of this movement and advocacy, empowers its employees, and leads them to become future leaders and enablers. For more information, our website is listed below.

Your Buskowitz Energy team!

*Joya Residence, Pasig. – 11 kWp grid-tied installation

Visit:
www.buskowitz.com
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