

Project Description:

The “*Photovoltaic System: Clean Energy for Sustainability*” represents the commitment of the *Centro de Promoción y Solidaridad Humana, Inc. (CEPROSH)* to adopt innovative solutions that integrate technology, sustainability, and environmental responsibility. This project aims to ensure a resilient and efficient operational model, strengthening the institution’s capacity to continue providing vital services to the most vulnerable communities—both now and in the future.

Project Summary:

“*Photovoltaic System: Clean Energy for Sustainability*” project aims to reduce CEPROSH’s electricity costs through the installation of a 27.00 kWp solar energy system, designed for grid connection with Zero Export control. The installation includes 45 high-efficiency 600 Wp bifacial monocrystalline solar modules and three 8 kW Growatt inverters, along with an intelligent monitoring system that enables precise control of energy production and interaction with the public grid.

According to specialized software analysis conducted by “*Quantumx Energy*”, this system is expected to generate **44,579.20 kWh** during its first year of operation, with an estimated total production of **1,114,480 kWh** over the **25-year** lifespan of the modules. The total investment required is **USD 22,140.00**.

This energy production will cover a significant portion of CEPROSH’s electricity demand through clean and renewable energy, optimizing daytime self-consumption and reducing dependency on the public grid without unnecessary energy exports. The initiative will lead to a substantial reduction in monthly electricity expenses, while promoting energy efficiency and financial sustainability.

Through this investment, CEPROSH moves toward energy self-sufficiency, demonstrating that technological innovation can be a powerful ally for health, inclusion, and sustainable development.

Implementation Site:

CEPROSH headquarters, located at Profesor Juan Bosch Street #52, corner of Padre Castellanos Street, San Felipe de Puerto Plata, Puerto Plata Province, Dominican Republic.

Applicant Organization:

The *Centro de Promoción y Solidaridad Humana, Inc. (CEPROSH)* is a non-governmental organization with more than 37 years of experience in the Dominican Republic. It is a national reference in comprehensive care for people living with HIV and vulnerable

populations, as well as in supporting survivors of gender-based violence. Its mission is to promote health, human rights, social inclusion, and sustainable development.

Within the framework of the 487th anniversary of the Universidad Autónoma de Santo Domingo (UASD), and through Resolution No. 0016-2025, CEPROSH received the “*Excellence Award*”, based on criteria such as transparency, innovation, inclusion, excellence, and social impact—recognizing its significant contributions to improving quality of life, addressing social challenges, and fostering community development and well-being.

Project Context:

The high cost of electricity in the Dominican Republic directly impacts the sustainability of non-profit organizations. For CEPROSH, these costs represent a significant financial burden that limits its ability to sustain essential services. The organization currently serves more than 2,000 individuals, including children, adolescents, women, migrants, LGBTIQ+ individuals, and sex workers, through its various programs (HIV Care, PrEP, PEP, Gender-Based Violence Survivors, General Medicine, and Psychology Services).

In response to this challenge, implementing a photovoltaic system offers a sustainable solution that will allow CEPROSH to optimize clean energy use while reinforcing its commitment to efficiency, energy autonomy, and environmental sustainability.

Main Challenge:

The high dependency on the conventional power grid and its associated costs threaten the organization’s financial sustainability and the continuity of its essential services.

General Objective:

To ensure CEPROSH’s energy and financial sustainability through the installation of a solar self-consumption system that reduces electricity costs and promotes the use of clean and renewable energy.

Specific Objectives:

- Install and commission a 27 kWp photovoltaic system with intelligent monitoring and export control.
- Reduce monthly electricity expenses by 80–90%, redirecting savings toward strengthening care programs and other institutional areas.
- Promote sustainable practices and environmental awareness within the institution and the broader community.

Expected Results:

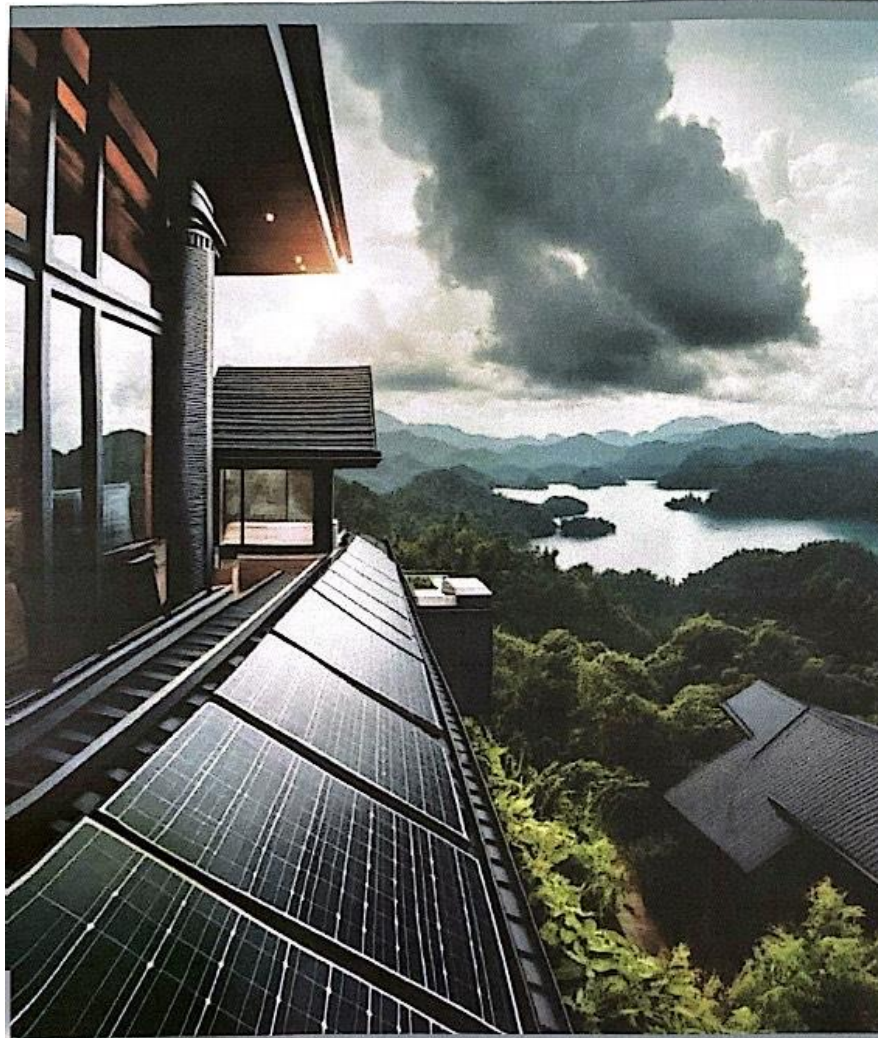
- Significant reduction in monthly electricity expenses.

- Strengthened financial and operational sustainability of CEPROSH.
- Contribution to climate change mitigation through the use of clean energy.

Call to Action:

Your support can transform the way CEPROSH delivers hope and care to hundreds of people. With your contribution, we can turn solar energy into a driving force for sustainability and social justice. Your donation not only fuels an energy project—it illuminates a model of hope: a stronger, greener, and more life-committed organization.

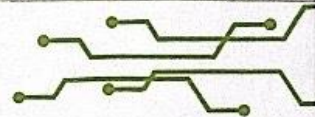
QUANTUMX ENERGY



PLANTA FOTOVOLTAICA

27.00 kWp

CEPROSH



DIRIGIDA POR:
QUANTUMX ENERGY

TECNICO RESPONSABLE:
ANDERSON RODRIGUEZ

PROPUESTA INSTALACION

QUANTUMX ENERGY
PUERTO PLATA, RD.
TEL: 829-349-4843

E-MAIL: QuantumX.Energy.Official@GMAIL.COM

 [QuantumX_Energy_Official](https://www.instagram.com/QuantumX_Energy_Official)

RNC: 037-0126911-4
 Telefono: (829) 349-4843
 Email: QuantumX.Energy.Official@gmail.com

TIPO: On-Grid/Grid-Tie
 ESTADO: COTIZACION

Cliente: Centro De Promoción Y Solidaridad Humana, Inc
 Direccion: C/ Profesor Juan Bosh Esq. Padre Castellanos #52, Puerto Plata, R.D.
 Contacto: (809) 586-8987

ProPuesta CeProsh

Planta Fotovoltaica On-Grid/Grid-Tie.	27.00 KWp	Cantidad	Unidad	Ref. Técnica
1. Panel Solar Sunenergy Bifacial 600w.	45.00	UND	SUN 72MD-H8NS 600w	
2. Inversor Growatt 8Kw	3.00	UND	Min8000TL-X2	
3. Sistema Monitoreo y Autoconsumo	1.00	UND	TPM CT E 100AMP	
4. Materiales Electricos, Cuadros De Controles, Estructura.	1.00	PI		
5. Estructura Paneles, Piezas De Montaje y Demas.	1.00	PI	Pendiente A Evaluar	
6. Transporte, Instalacion y Puesta En Marcha.	1.00	PI		

Los equipos y materiales de instalación pueden variar según la disponibilidad el mercado sin afectar el resultado del proyecto en cuanto a calidad refiere.

Comentarios: Esto no incluye medidor bidireccional por mano de la EDE.

SubTotal USD\$	\$18,763.00
ITBIS 18%	\$3,377.00
Total USD\$	\$22,140.00

- ! ESTA COTIZACIÓN INCLUYE:**
- Todos los equipos y materiales necesarios.
 - Instalación de equipos.
 - Garantía de fabricantes de paneles e inversores.
 - 5 Años de garantía en la instalación.
 - 1 Año de mantenimiento gratis.
 - Gestión de cambio a Contador Bi-Direccional ante la EDE o PPE para Medición Neta. (NO incluye costo de cambio de medidor).

FORMA DE PAGO

INICIAL	60%	US\$13,284.00
ENTREGA PROYECTO	40%	US\$8,856.00
TOTAL PAGO USD	100%	US\$22,140.00
TOTAL PAGO RDP		RD\$1,328,400.00 <small>TASA DOLAR RD\$40.00</small>
PRECIO POR kWp		US\$820.00

- ! COTIZACIÓN VÁLIDA POR 7 DÍAS**
 Estos precios y condiciones están sujetos a cambios.

NOTA: Nuestros sistemas de generación fotovoltaica cuentan con un sistema de monitoreo en tiempo real, con la capacidad de monitoreo en línea 24/7 desde cualquier lugar del mundo directamente desde su smartphone, tableta o PC. Este equipo esta integrado en los inversores utilizados.

ANALISIS DEL SISTEMA

PVGIS

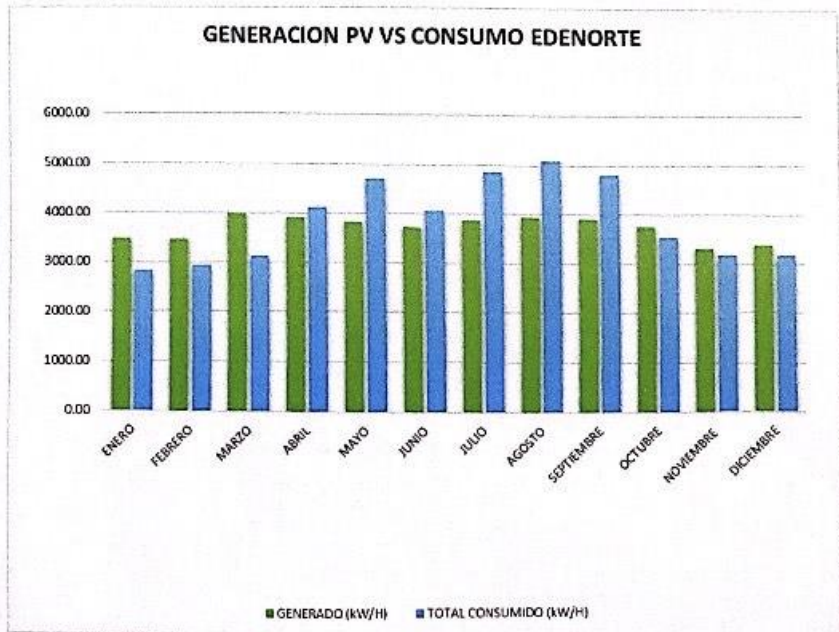


CONSIDERACIONES

CONSUMO PROMEDIO MENSUAL (KW/H)	3871.08
POTENCIA EN PANELES (kWp)	27.00 KWh
ENERGIA PRODUCIDA PV MENSUAL (KW/H)	3714.93
PRECIO ACTUAL ENERGIA EDENORTE (RD\$/KWh)	RD\$14.38
INVERSION EN PANELES (RD\$)	RD\$1,328,400.00

MES	GENERADO (KW/H)	CONSUMIDO 1 (KW/H)	CONSUMIDO 2 (KW/H)	CONSUMIDO 3 (KW/H)	TOTAL CONSUMIDO (KW/H)	NETO (KW/H)	AHORRO
ENERO	3,483.70	1,696.00	475.00	653.00	2,824.00	659.70	\$9,486.49
FEBRERO	3,471.40	1,615.00	646.00	679.00	2,940.00	531.40	\$7,641.53
MARZO	3,988.30	1,778.00	625.00	719.00	3,122.00	866.30	\$12,457.39
ABRIL	3,914.20	2,264.00	964.00	894.00	4,122.00	-207.80	-\$2,988.16
MAYO	3,819.00	2,636.00	1,128.00	951.00	4,715.00	-896.00	-\$12,884.48
JUNIO	3,724.70	2,565.00	552.00	941.00	4,058.00	-333.30	-\$4,792.85
JULIO	3,863.90	2,482.00	1,398.00	981.00	4,861.00	-997.10	-\$14,338.30
AGOSTO	3,938.00	2,609.00	1,485.00	999.00	5,093.00	-1,155.00	-\$16,608.90
SEPTIEMBRE	3,903.20	2,526.00	1,338.00	944.00	4,808.00	-904.80	-\$13,011.02
OCTUBRE	3,762.30	1,895.00	741.00	902.00	3,538.00	224.30	\$3,225.43
NOVIEMBRE	3,313.30	1,631.00	686.00	878.00	3,195.00	118.30	\$1,701.15
DICIEMBRE	3,397.20	1,672.00	690.00	815.00	3,177.00	220.20	\$3,166.48
TOTAL AL AÑO	44,579.20	25,369.00	10,728.00	10,356.00	46,453.00	-1,873.80	-\$26,945.24

NOTA: Los valores de consumo han sido tomados de los meses mas altos de la ultima factura electrica que abarca los ultimos 12 meses, estos pueden variar en lo adelante.



DISEÑO
VISTA PREELIMINAR

QUANTUMX
ENERGY

