



Solar Panels System



DESIGN + BUILD
EXPERT IN
MEXICO

ON TIME, ON BUDGET, GUARANTEED



"One Stop Service" in Mexico

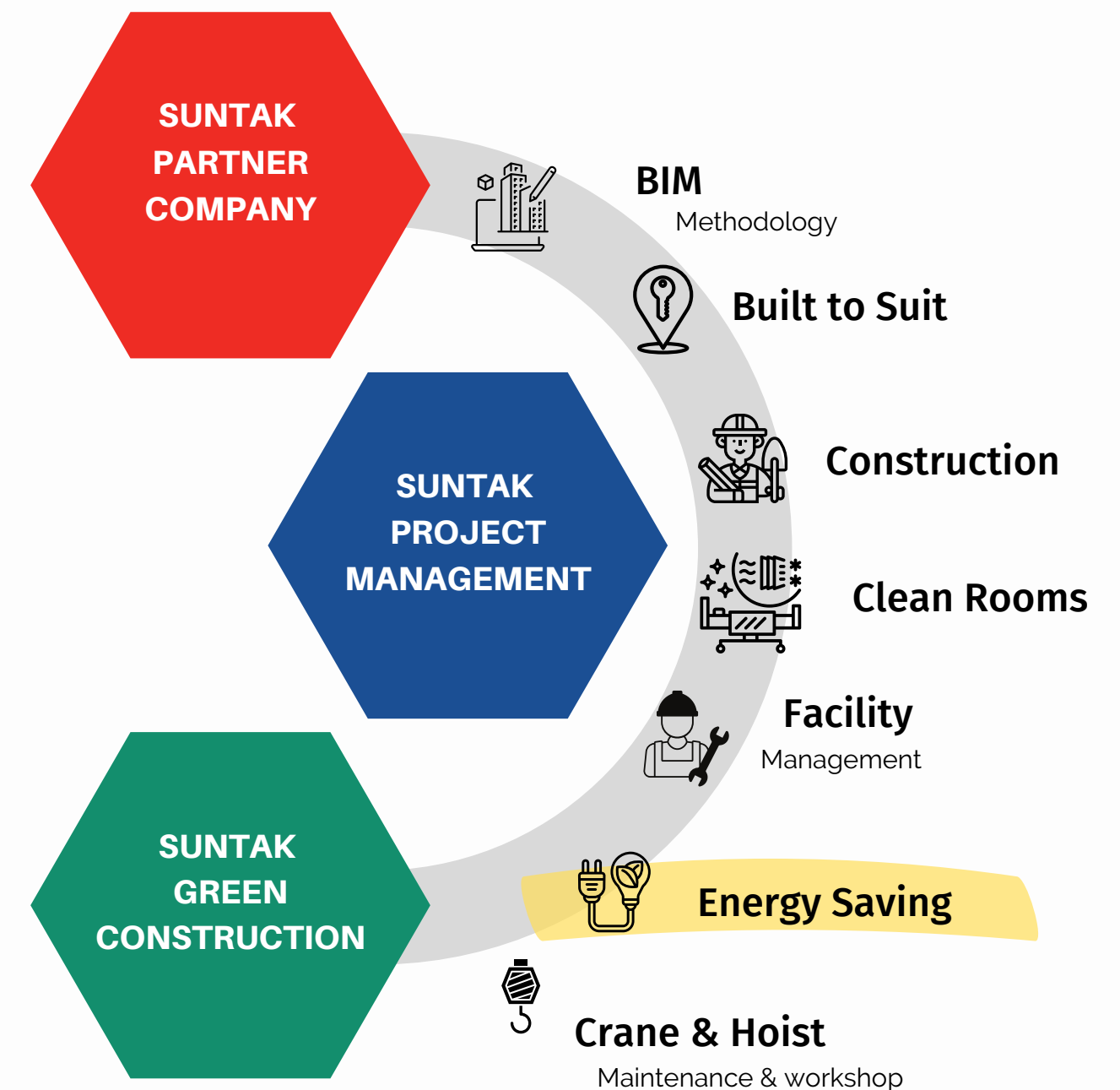
We work as a Design - Build contractor specializes in high quality industrial and commercial buildings, we also offer complementary services, such as construction procedures, support for maintenance, and energy saving technologies.

Features

- Our founding members have over 25 years of experience in the construction industry with reputable expertise.
- Our In-house Design & Engineering team allows for schedule reduction, quality assurance, and on-site management.
- Our major strength is that we offer "Japanese Quality and Services with Mexican costs" and direct procurement of materials & equipment.

We support your project

Since our founding in 1999, we have been dedicated to turnkey projects, including clean room needs. Sunktak, in its 25 years of experience, faces challenges with its designs, engineering, and construction of the complete project including the special installations involved.



Locations

Full local service

Our Japanese team is well versed in Mexican and Japanese culture, and our project management team has a long track record of construction projects in Mexico. We will be a reassuring partner for your expansion into Mexico by providing services that Japanese general contractors cannot provide, such as quality, cost, process, and safety management, and other services that only a general contractor with deep roots in Mexico can provide, and that local general contractors cannot imitate.

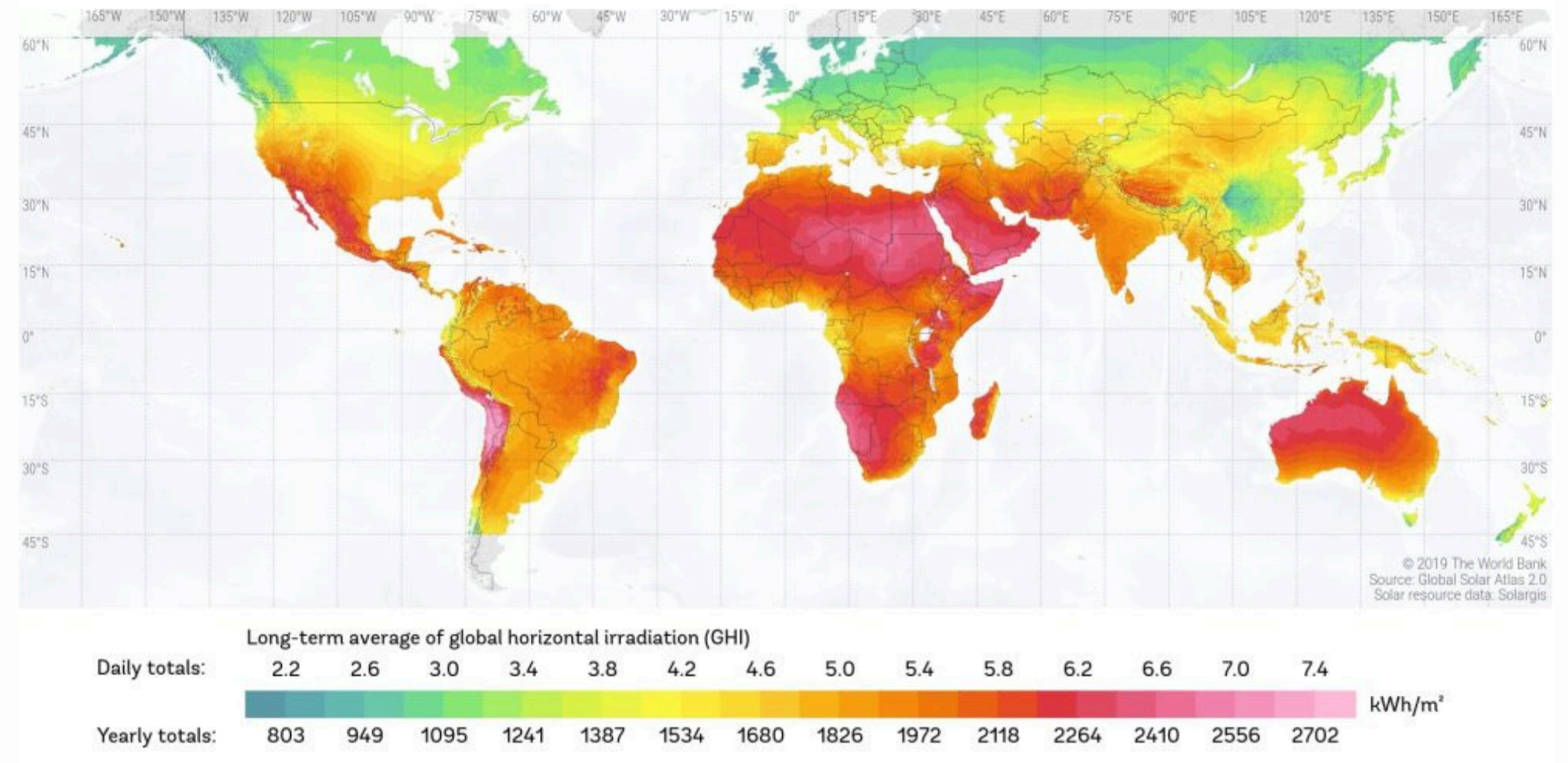
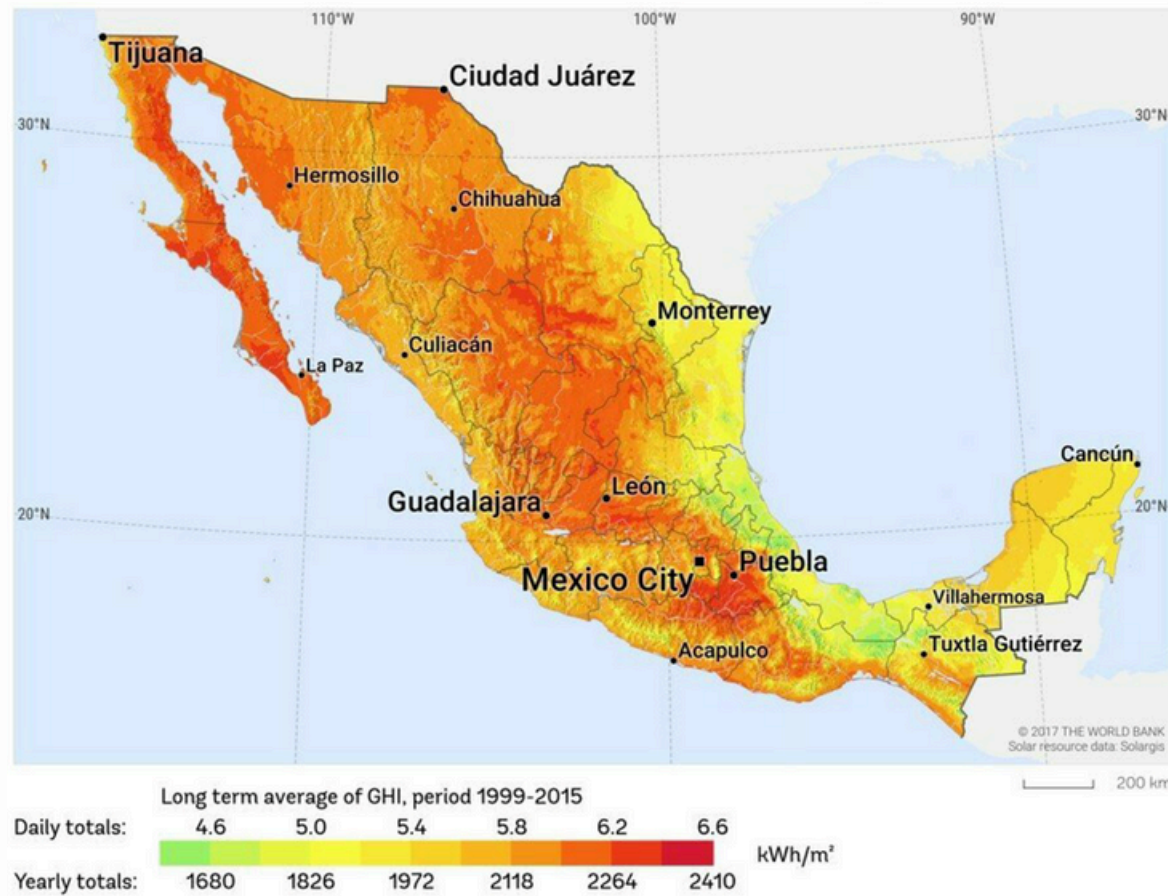


Prompt service in Japan

Our experienced staff offers a wide range of services in Mexico, from consulting on site selection, design and implementation work, to coordination of construction projects in Japan, as well as consulting to move forward in Mexico.

Solar Panels In Mexico

Mexico is one of the most privileged areas in terms of solar irradiation, with an average of 5.3 kWh/m². It is the third sunniest country in the world and one of the countries with the highest rates that are growing year after year.

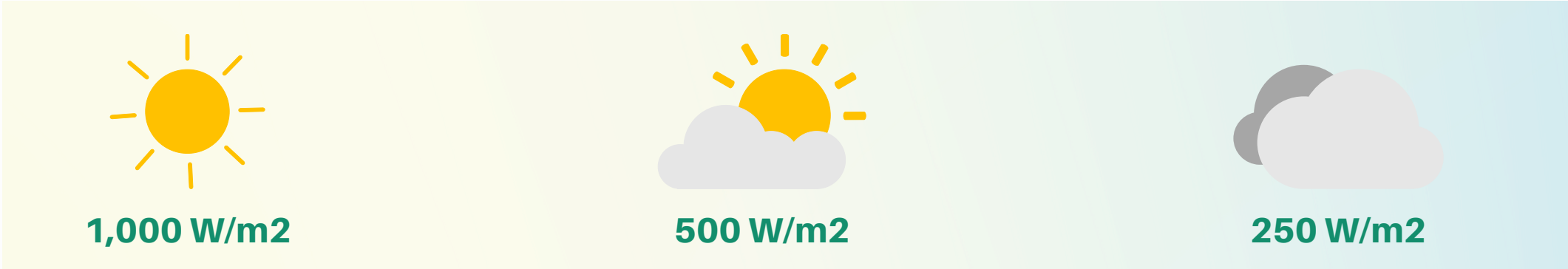


Solar photovoltaics is a clean, renewable energy source that uses solar radiation to generate electricity.

The sun produces a constant amount of energy that reaches the Earth, called irradiance, which is measured in watts per square meter **W/m²**.

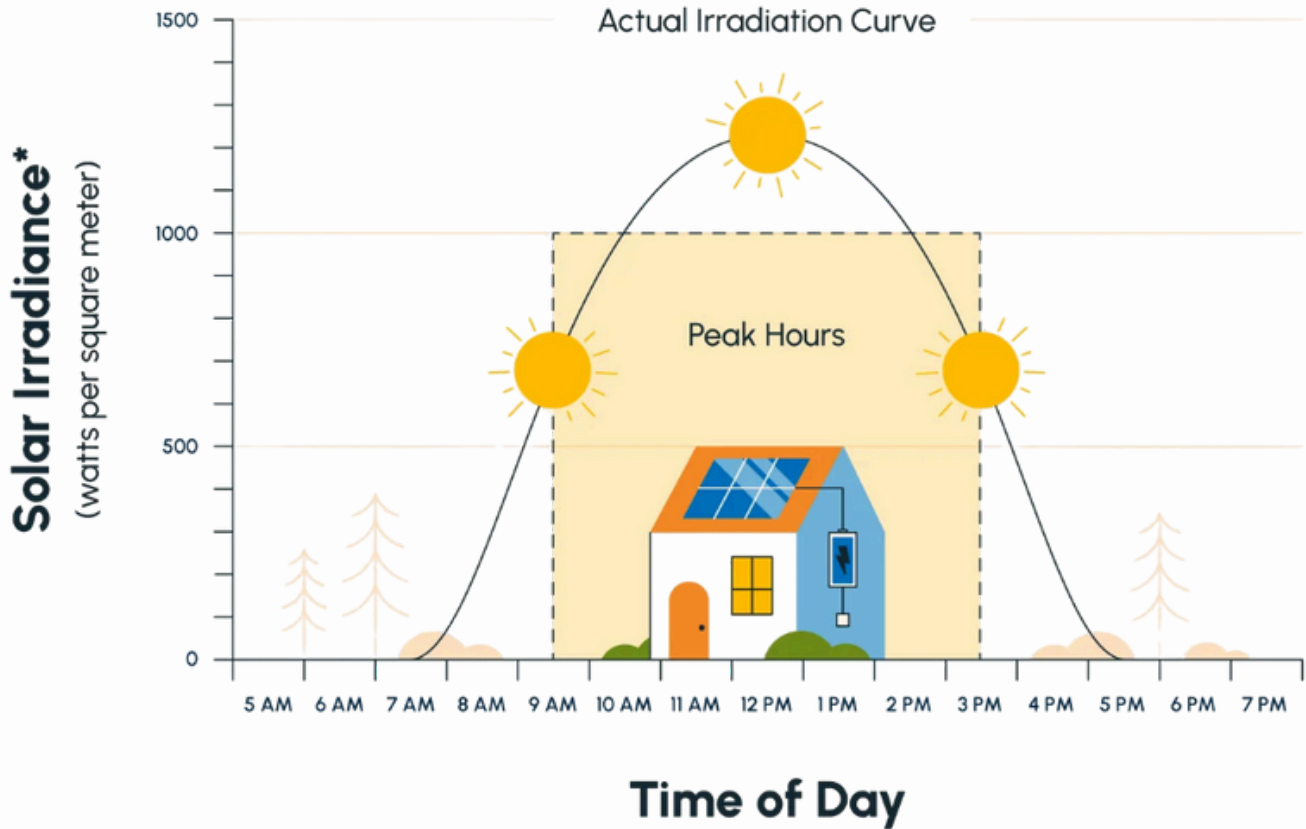


Solar Irradiation

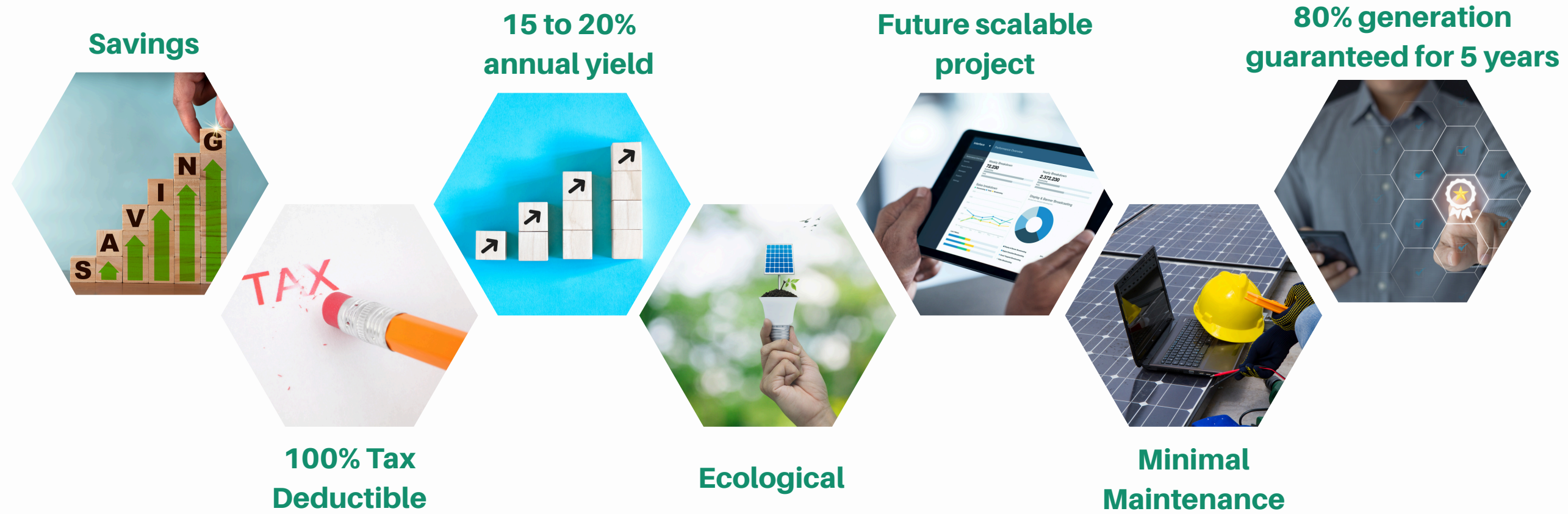


In Mexico there are high levels of irradiance, which can be exploited through photovoltaic systems that currently have an efficiency between 18-20%. In a city like Monterrey, which has a constant irradiance of 1000W/m² per day, for 5.68 hours at an optimal angle. In this way, with a commercial solar panel with an area of 2m², can generate 550W (Electrical Energy), you can take advantage of almost 100% of the available energy.

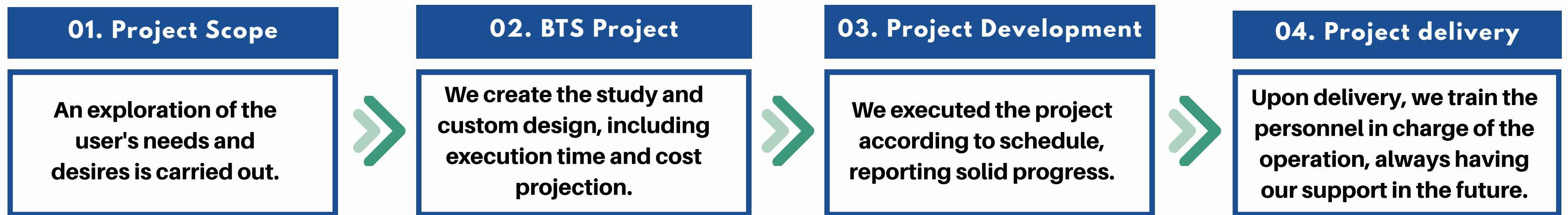
Peak Sun Hour



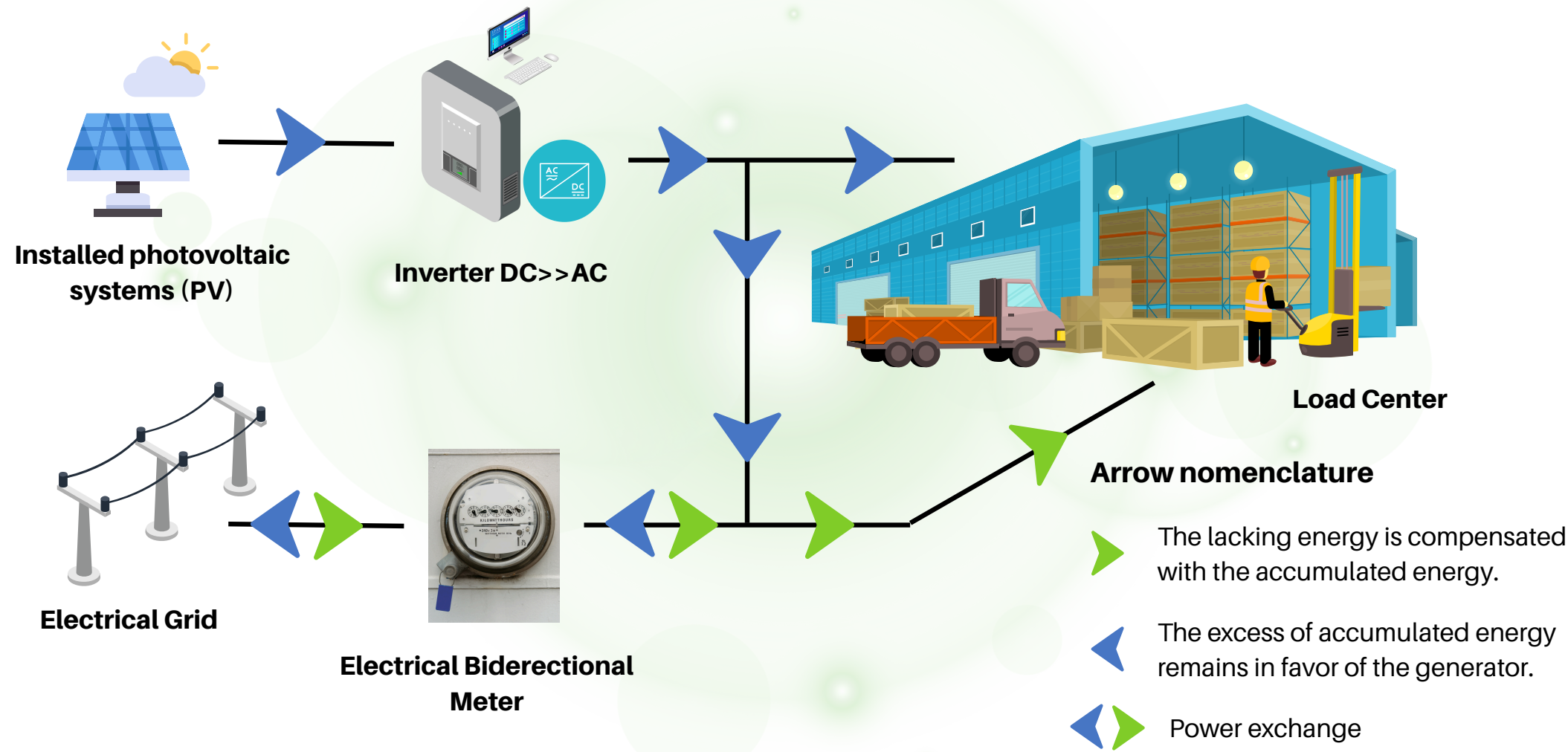
Why invest in Solar Panels?



How do we do?



How it works?



How is billed?

Photovoltaic System (W)	Client	CFE Power Grid	What is billed?
100 ▶	100	- 0	Minimum fee
50 ▶	100	◀ 50	50 to the fees
150 ▶	100	◀ 50	Minimum charge and the difference is savings
0 -	100	◀ 50	If there are savings, they are returned; if they are not sufficient, the difference is returned.

How is generation vs. consumption measured?

- 1** The energy generated by the **PV** system passes through the inverter as direct current (DC) and is converted to alternating current (AC) for use in your building and to the power grid.
- 2** The **Electric Bidirectional Meter** measures energy generated vs. energy expended.
- 3** The user can use the remaining energy for a 12-month period and the CFE will purchase the extra energy at the local margin price.

Tax deduction in Mexico for installing Solar Panels



The Secretaría de Administración Tributaria (SAT) allows the total and immediate deduction of the installation of photovoltaic solar panels.



In accordance with the content of Article 34, Section XIII of the Mexican Income Tax Law (ISR), “it is possible to deduct the total cost of equipment that assists in the generation of renewable energy.”



Article 34

La Ley del ISR, en su artículo 34, fracción XIII, establece lo siguiente:

XIII. 100% para maquinaria y equipo para la generación de energía proveniente de fuentes renovables o de sistemas de cogeneración de electricidad eficiente.

Para los efectos del párrafo anterior, son fuentes renovables aquéllas que por su naturaleza o mediante un aprovechamiento adecuado se consideran inagotables, tales como la energía solar en todas sus formas; la energía eólica; la energía hidráulica tanto cinética como potencial, de cualquier cuerpo de agua natural o artificial; la energía de los océanos en sus distintas formas; la energía geotérmica, y la energía proveniente de la biomasa o de los residuos. Asimismo, se considera generación la conversión sucesiva de la energía de las fuentes renovables en otras formas de energía.

Lo dispuesto en esta fracción será aplicable siempre que la maquinaria y equipo se encuentren en operación o funcionamiento durante un periodo mínimo de 5 años inmediatos siguientes al ejercicio en el que se efectúe la deducción, salvo en los casos a que se refiere el artículo 37 de esta Ley. Los contribuyentes que incumplan con el plazo mínimo establecido en este párrafo, deberán cubrir, en su caso, el impuesto correspondiente por la diferencia que resulte entre el monto deducido conforme a esta fracción y el monto que se debió deducir en cada ejercicio en los términos de este artículo o del artículo 35 de esta Ley, de no haberse aplicado la deducción del 100%. Para estos efectos, el contribuyente deberá presentar declaraciones complementarias por cada uno de los ejercicios correspondientes, a más tardar dentro del mes siguiente a aquél en el que se incumpla con el plazo establecido en esta fracción, debiendo cubrir los recargos y la actualización correspondiente, desde la fecha en la que se efectuó la deducción y hasta el último día en el que operó o funcionó la maquinaria y equipo.

Article 34, Section XIII of the Income Tax Law establishes the following:

XIII. 100% for machinery and equipment for the generation of energy from renewable sources or efficient electricity cogeneration systems.

For the purposes of the preceding paragraph, renewable sources are those that by their nature or through adequate use are considered inexhaustible, such as solar energy in all its forms; wind energy; hydraulic energy, both kinetic and potential, from any body of natural or artificial water; ocean energy in its different forms; geothermal energy; and energy from biomass or waste. Likewise, the successive conversion of energy from renewable sources into other forms of energy is considered generation.

The provisions of this section will be applicable provided that the machinery and equipment are in operation or functioning for a minimum period of 5 years immediately following the fiscal year in which the deduction is made, except in the cases referred to in Article 37 of this Law. Taxpayers that fail to comply with the minimum term established in this paragraph, must cover, if applicable, the corresponding tax for the difference resulting between the amount deducted in accordance with this section and the amount that should have been deducted in each year in the terms of this article or article 35 of this Law, if the 100% deduction had not been applied. For these purposes, the taxpayer must file supplementary tax returns for each of the corresponding years, no later than within the month following the month in which the deadline established in this section is not met, and must pay the corresponding surcharges and restatement, from the date on which the deduction was made until the last day on which the machinery and equipment operated or functioned.

NAX MFG- SLP project experience



BEFORE

CFE
Comisión Federal de Electricidad®

CFE Suministrador de Servicios Básicos
Río Ródano No. 14, colonia Cuauhtémoc,
Alcaldía Cuauhtémoc, Código Postal 06500,
Ciudad de México. RFC: CSS190330CP7

NAX MFG SA DE CV

TOTAL A PAGAR: \$119,945
(CIENTO DIECINUEVE MIL NOVECIENTOS CUARENTA Y CINCO PESOS M.N.)

PERIODO FACTURADO: 30 JUN 23 - 31 JUL 23

TARIFA: GDMTH NO. MEDIDOR: PN128H MULTIPLICADOR: 350 FECHA LÍMITE DE PAGO: 12 AGO 23

CARGA CONECTADA kW: 400 DEMANDA CONTRATADA kW: 400 CORTE A PARTIR: 13 AGO 23

Concepto	Consumo Medida Estimada	Precio (MXN)	Subtotal (MXN)
kWh base		3,014	
kWh intermedia		27,921	
kWh punta		2,137	
kW base		74	
kW intermedia		125	
kW punta		77	
kWMax		125	
kVAh		20,897	
Factor de potencia %		84.54	

AFTER

CFE
Comisión Federal de Electricidad®

CFE Suministrador de Servicios Básicos
Río Ródano No. 14, colonia Cuauhtémoc,
Alcaldía Cuauhtémoc, Código Postal 06500,
Ciudad de México. RFC: CSS190330CP7

NAX MFG SA DE CV

TOTAL A PAGAR: \$31,399
(TREINTA Y UN MIL TRESCIENTOS NOVENTA Y NUEVE PESOS M.N.)

PERIODO FACTURADO: 30 JUN 24 - 31 JUL 24

TARIFA: GDMTH NO. MEDIDOR: S: MEDO MULTIPLICADOR: 0 FECHA LÍMITE DE PAGO: 12 AGO 24

CARGA CONECTADA kW: 400 DEMANDA CONTRATADA kW: 400 CORTE A PARTIR: 13 AGO 24

Concepto	Consumo Medida Estimada	Precio (MXN)	Subtotal (MXN)
kWh base		501	
kWh intermedia		4,840	
kWh punta		2,278	
kW base		122	
kW intermedia		125	
kW punta		125	
KWMax		125	
kVAh		6,084	
Factor de potencia %		78.37	

-  Investment - \$300K USD
-  Installed Power - 272.3kW
-  495 Longi 550W modules
-  4 Solis 124kW inverters

Do you have questions?

Feel free to contact us!



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