



Win-Win-Business

<http://wwwb.jp>



WWB

WWB Corporation



Abalance GROUP

We are the group company of Abalance

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TEL : +81-3-6433-2788 (Construction Machinery Department)

TEL : +81-3-6433-2789 (Green Energy Department)

FAX : +81-3-6712-8383 (common)

WWB is committed to promoting ESG / SDGS.



WWB stands for "Win-Win Business" because we wish all to benefit.

1. A **Win-Win** relationship with our employees and the company.
2. A **Win-Win** relationship with stakeholders including customers.
3. A **Win-Win** relationship with society through our contributions.

ESG's policy is consistent with **WWB's** philosophy of "Contributing to Society".

We, at **WWB** incorporate the concepts of **ESG** into our management philosophy toward sustainable growth.

ESG (Environmental, Social, and Corporate Governance) is an index to determine the potential for a companies' long term growth. It is an international standard that assesses how companies are providing value to the global environment, local and international communities, and their stakeholders to find how such companies can achieve sustainable growth.

Governance Corporate Governance

We clearly express our ideas on governance, and have established a transparent and sound corporate governance system, while balancing management efficiency and compliance. Regarding our specific measures of corporate governance, we regularly hold the board of directors meeting and audit supervisory board meeting, and take audits through our Internal Audit Office and external audit firms to enhance the effectiveness of our governance supervision.

Social Social Responsibility

We wish to expand green energy globally and promote the development of infrastructure to other countries. We contribute to the creation of comfortable societies. Through the support of social activities, we expand the significance and awareness of environmental conservation issues throughout the world and help societies to discover their value. We have established corporate and employee codes of conduct and strive to respect and consider all human rights.

Environmental Environmental consideration

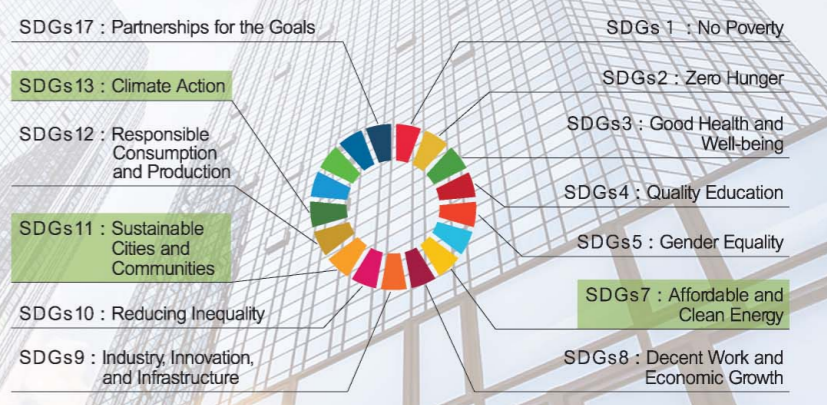
We contribute to the realization of a safe and secure decarbonized society through the promotion of green energy. We strive to promote the use of ZEH and Solar Sharing as well as green energy power generation, over a wider area, including in homes and agriculture.

WWB promotes green energy to contribute to Sustainable Development Goals (SDGs).

Abbreviation for sustainable development goal **SDGs (Sustainable Development Goals)**. SDGs were adopted at the United Nations Summit in September 2015, and is a goal set by 193 UN member states to be achieved in the 15 years between 2016 and 2030.

Japan.
Committed to SDGs

Our initiatives for SDGs with companies working on the SDGs are listed on the website, "JAPAN SDGs Action Platform" that is operated by the Ministry of Foreign Affairs.



Goal 7, 11, and 13 are directly related to WWB's business.

We are sponsoring various events as part of our contribution activities for society.

Utilizing solar power for power supplies, we provide technical cooperation for events.

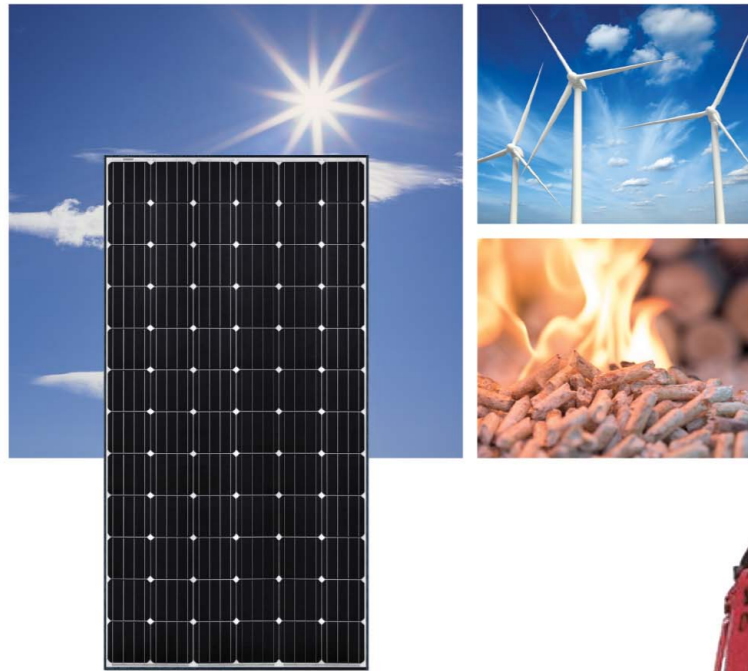


Earth Day Peace On Earth Nakatsugawa The Solar Budokan

WWB's solid business foundations, the green energy, and construction machinery and equipment businesses.

Green Energy Business

WWB has been involved in numerous solar power plant businesses all over Japan since its establishment in 2006 and has a strong desire to contribute to the lack of energy resources in Japan and to promote the prevention of global warming. We contribute our efforts toward the realization of a safe and secure decarbonized society through the promotion of green energy.



We never miss when nature shines.

Construction Machinery and Equipment Business



Our abilities and experience in coordination are adaptable to various conditions.

We have been dealing with construction machines that satisfy our customers both in Japan and overseas. We are experts in handling used construction equipment, and can quickly respond to overseas construction equipment needs based on our experience in ODA and others. At the time of the Fukushima Daiichi nuclear disaster in the 2011 Great East Japan Earthquake, with the cooperation of SANY, we donated a 62-meter concrete pump truck (commonly known as Dai-Kirin) for reactor water injection to TEPCO.

We are expanding our global strategies.

Overseas power infrastructure developments are not sufficient as yet. The progress of global warming countermeasures through the reduction of CO2 emissions is slow. We are currently constructing solar power plants mainly in Southeast Asia. Green energy power generation anywhere in the world contributes to the global environment. For the future, we are planning to expand our activities all over the world and actively develop our global business. Regarding our construction equipment business, we have been expanding our overseas ODA business and established a local subsidiary in Bangladesh.



As a comprehensive company in green energy,

WWB aims to realize a safe and secure energy society by supplying green energy that can contribute to CO2 reduction. We are also working on green energy sources other than solar power generation, such as wind power and biomass power generators. We hope to accelerate the realization of an ideal energy society by increasing the options for energy supply that do not burden the global environment.

Green energy
Business domain

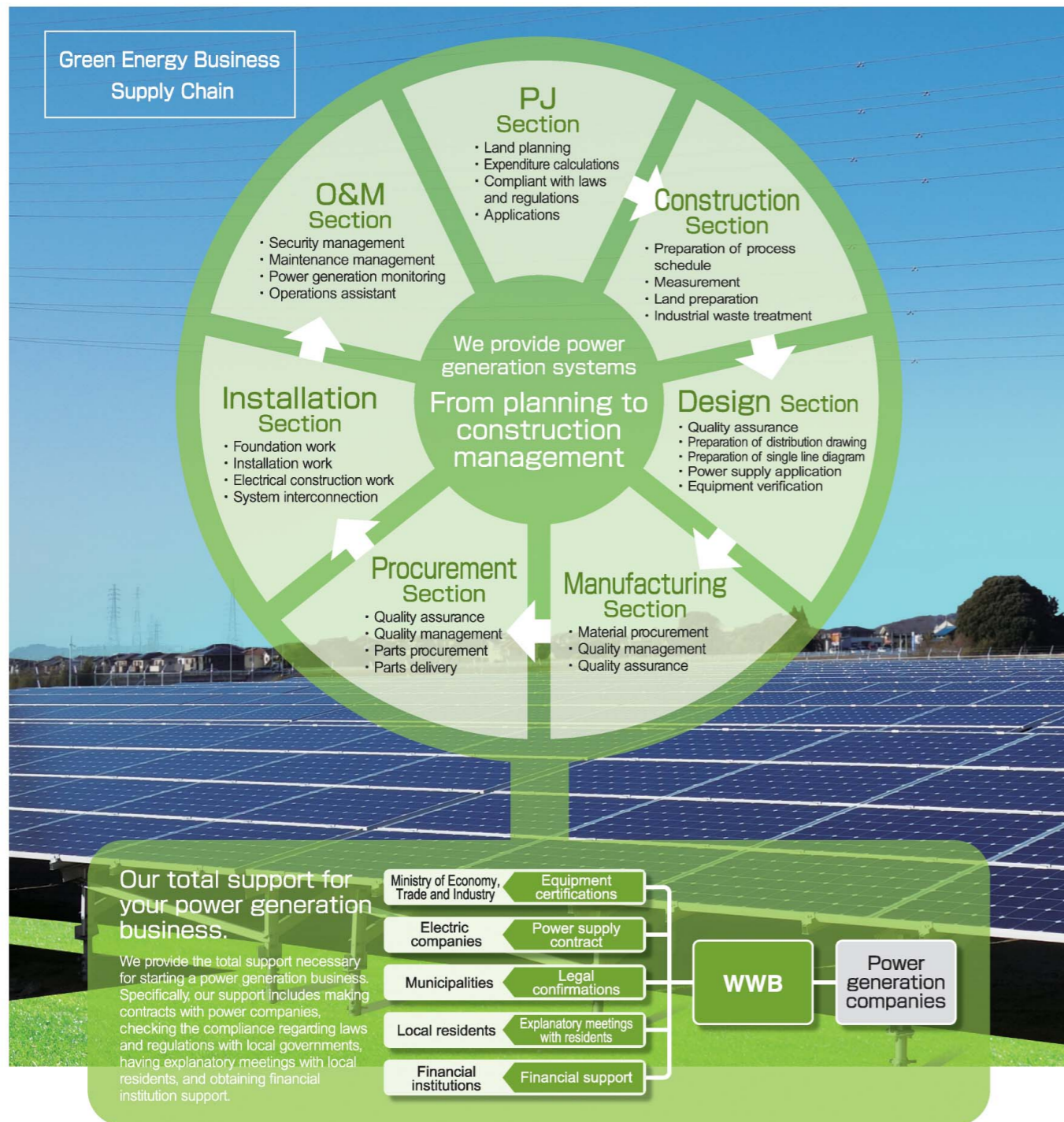
WWB is a comprehensive green energy company.

- Installation of solar panels at company-owned facilities
- Installation of solar panels at public facilities such as schools
- Solar sharing

1
Business for industrial use

Contributing to the solar power generation business
One stop solution.

We provide solutions that make the most of our high-quality modules at every step not only from the upstream of solar power generation projects to the completion of installation, but also the operation of a solar power project. By handling all processes in a one-stop service, each process can be coordinated smoothly and provide a stress-free experience. We strongly support your solar power generation business.



Sufficient guarantee service



We guarantee that the module conversion efficiency is 90% for the first 12 years, 83% up to 20 years, and over 80% up to 25 years.



Guaranty on repair costs caused by typhoons, lightning strikes, fires, or damage caused by flying objects.

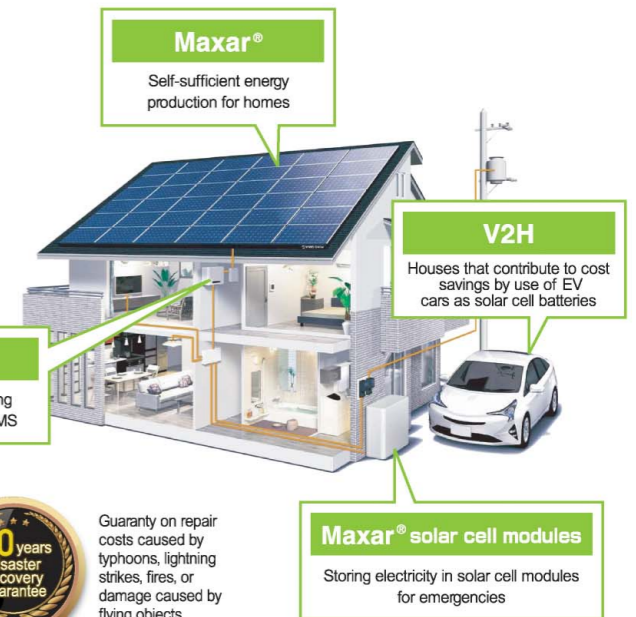


Guarantee income from power sales during any equipment failure caused by unexpected accidents or natural disasters.

2
Business for Residential

Start with solar cell modules
For a comfortable and joyful life

A solar cell module system adds new value to your house. It creates the energy used in your house. You can sell the surplus energy and earn revenue. Surplus power can also be stored in a solar cell module for emergencies. You can promote decarbonization and contribute to the global environment. In the future, the use of EV cars parked in car-port for as a house-battery will become standard. Your life will be more comfortable, safe and convenient.



Sufficient guarantee service



We guarantee that the module conversion efficiency is 90% for the first 12 years, 83% up to 20 years, and over 80% up to 25 years.



Guaranty on operation of peripheral devices such as modules, mounts, power conditioners, and junction boxes.



Guaranty on repair costs caused by typhoons, lightning strikes, fires, or damage caused by flying objects.

Maxar® solar cell modules
Storing electricity in solar cell modules for emergencies

3
Product Sales

- Procurement and sale of solar power generation related products

WWB as a trading company

A wide selection of solar power generation related products

We have various types of products for various purposes, such as peripheral devices including power conditioners and cell modules, and accessories including cables. By freely combining such devices, we can offer a power generation system which is most suited to your purpose.

- Sales and purchase of power plants (low, high and extra high voltage)
- Sales, purchase and brokerage of used power plants
- Operation of our owned power plants
- Acquisition and sales of ID and land
- Power plant construction

4
Power Generation Business

Sale and purchase of power plants

Experienced over 2,000 transactions including secondary transactions of solar power plants
Operation of our own power plants



Operation of our own power plants

Stable profits from power generation contributes to sound corporate management

We own solar power plants and gain profit. There are only a few fluctuations in the profit by the market trend, and this is the stable foundation for corporate management. In addition, we use the operational know-how, which we obtained from our power generation business, for our customers.

Sales of Used Generation Plants

We handle used generation plants in excellent conditions all over Japan

We provide matching services for solar power plants by mediating between those who want to sell and those who want to buy. We loyally support our customers to the end, even if their ownership needs to be transferred for any reason.

5
O&M Business

- Security management
- Maintenance management
- Power generation monitoring
- Operations assistant
- Sales of remote monitoring system

Reliable O&M service

Providing a one-stop maintenance service

Using the latest remote monitoring system and digital management system, we provide thorough maintenance management. We promptly handle your power generation problems to minimize power generation losses and secure your profits from power sales.



WWB provides solar power cell modules with "Made in Japan" quality.

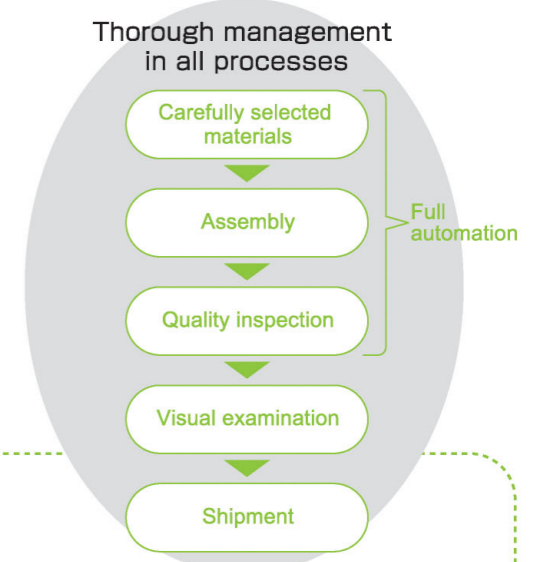
We promote Maxar® brand modules by VSUN

We, WWB are a module manufacturer and have developed our own unique business model with module manufacturing functions in our supply chain. The solar module that we manufacture and sell boast the highest output in the industry. We realize the high efficiency, long-term stability, and wide product lineup that is possible manufacturer-specific. Our solar module are applicable to various conditions, from ordinary detached houses to industrial mega solar power generation systems.



Manufacturing System for High Quality and Highly Efficient Modules

To ensure product quality, we are making every effort to select raw materials and manage the production processes for stability and durability in severe weather. Every solar module undergoes thorough quality control, and a secondary quality test at the time of shipment. The stability, efficiency and cost performance of our products are incomparable with the products of other companies.



VSUN, a Group company of WWB

Together with our partners in the world, VSUN promote environment conservation and development of clean energy. We take the responsibility as a company to provide green and clean energy to many people in the world and make contribution on global energy evolution and sustainable development.

VSUN is certified as a high-tech company by the Vietnamese government in April 2018.

We are expanding sales to Southeast Asia in addition to Europe and the United States.



We received EcoVadis bronze medal in 2021 for evaluation on social responsibility for companies.



PVEL2021 We were selected as "Top Performer" for the PV Module Reliability Scorecard.



Vietnam Sunergy (VSUN Solar) expanded the production to 2600MW in 2Q of 2021.

Firm / brand	Annual module capacity, MW/year
VSUN Solar	2,600

Firm/ brand	Annual module capacity, MW/year	Firm/ brand	Annual module capacity, MW/year
ZNShine	5,000	Longi*	50,000
Wares*	2,000	Jinwang/ Jinyang	2,700
VSUN Solar*	2,600	Jinco*	31,000
Vietnam Solar*	2,500	Jelton	2,500
Ulica Solar	1,200	JA Solar*	23,200
Trina Solar*	33,800	Hyundai*	1,350
Talesun*	10,000	HT-SAAE*	6,000
Suntech*	10,000	Heliene	390
SunPower/ Maxeon*	3,600	Hansol Technics	600
Suneci/ Phono Solar*	2,000	Haitai Solar	6,000
Shinsung	300	First Solar*	6,300
Sharp	210	Exlom Group	700
Seraphim / SEG*	5,500	ET Solar	1,600
S-Energy	530	Eging	6,000
Risen Energy*	14,100	DMEGC*	2,000
Renesola Yixing	1,500	Chint/ Astronergy*	8,000
Recom	600	Canadian Solar	16,100
REC Group*	1,800	Boviet*	1,500
Neo Solar Power/ URE	1,800	AE Solar	2,025
Leapton Energy	1,000	Adani/Mundra*	1,500
Jolywood*	3,000	Total	273,305

High Quality

The module production plant owned by our group company in Vietnam is certified as a high-tech plant by the Vietnamese government, as well as having the TUV license. Modules manufactured with "Made in JAPAN" quality have achieved a high reputation all over the world.

Feedback to Manufacturing

Since we handle the development and manufacturing of modules to the maintenance and operation of power plants, we can promptly fulfill any requests from actual operational sites. We quickly deliver high-performance modules that fulfill our users' wishes.

Various Product Development

Respond quickly to law changes and market needs, and to commercialize products are the strengths of our in-house development. We support a variety of solar power generation conditions with a diverse product lineup.



Continuing to advance in the world Industrial Application

Taking advantage of us as a module manufacturer, we can offer solar power generation related services. As a solar power generation partner, we provide total support for your solar life and business.



IPP business※
EPC business

IPP: Independent power producer

Mega-solar, the most advanced renewable energy

The solar power business has advantages such as "easy maintenance", high profitability for "initial cost", and "long term + high stability". In addition, due to the advantage that it can be installed on the roof of a building, there is an increasing number of cases where general companies and municipalities that are not electric power companies install photovoltaic power generation systems not only for power sales but also for self-consumption. We provide consistent service from business balance simulation to compensation.



TLP Dai Dung Factory 5MW



EGE Tien Dat Factory 1MW



Santoku Ranch Tokuko Ranch 1219.8kW



Ma Dou Di San Market in Tainan 172.94kW



Taitung Farmhouse 702.9kW



New Market in Tainan 99.6kW



Developing and expanding in the world



Chiba Prefecture Katori Power Station



Oita Prefecture Saiki Power Station



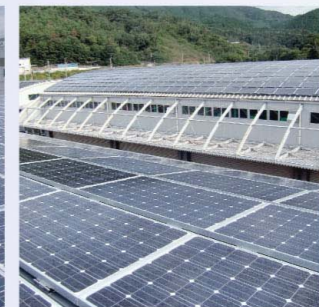
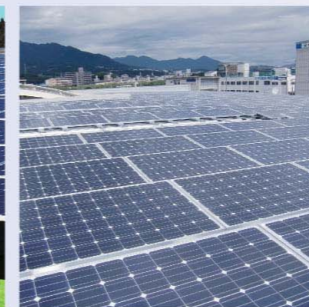
Okayama Prefecture Takahashi No.2 Power Station



Gifu Prefecture Seki City Power Station



Our constructions all over Japan



Self-Consumption Model

In the midst of a turning point in the solar power business, we will propose a strategy that focuses on selfconsumption rather than electricity sales.



Electricity sales and electricity purchases will be at the same price, and electricity purchase prices are expected to continue rising. Because of this situation in Japan, the market has shifted from the "total sales of electricity" model (which has the merit of selling electric power) to the "self-consumption" model (which consumes the electricity it has made itself, reduces the amount of electricity it buys, and reduces its electricity bill. The benefits of reducing them) are increasing.

Solar Sharing

The goal of solar sharing is to contribute to the revitalizing of the profit base of the agricultural regional economy.



(MAXA) Lite-V has realized the adjustment of the light saturation point (Koh houwatan) that differs depending on the plant and the growth environment by adjusting the arrangement of the solar module using our unique technology.



Solar Sharing Package Patent pending



Aiming for the best in solar power generation

High-output, high-quality modules boasting the industry's highest conversion efficiency.

Maxar® Photovoltaics Module <Maxar>

Development, design, manufacturing and sales of WWB's solar cell modules, Maxar fulfill the international standards. Maxar is widely used in solar power generation systems for general residential house roof, as well as in apartment, factories, commercial facilities, and mega solar power plants.

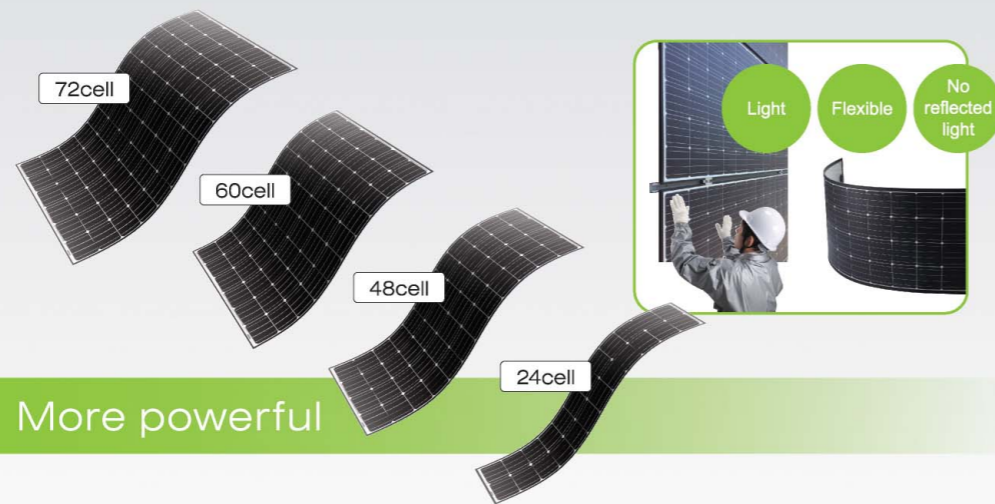


← More powerful

We have achieved the high flexibility of the ultralight Maxar module by using non-tempered glass.

Maxar® LIGHT Photovoltaics Module <Maxar>

By not using tempered glass, the ultralight modules can be installed on a wider range of surfaces, such as curved walls and greenhouses.



Installation on walls
Patent pending

← More powerful

Maxar® STAND Photovoltaics Simple Base <Maxar>

There is no need to make holes in the roof, and no need for foundations or waterproofing. The Maxar-STAND is the mounting unit to the flat roof that uses wind pressure. The installation of a module is as simple as just placing it in position.



O&M: Remote Monitor Eco Smart View +PLUS

The Eco Smart View Plus is a sophisticated remote monitoring system that monitors the operational status of the power plant. It detects and informs quickly of power generation equipment troubles to minimize any power generation losses.



What is really needed now?

The future trend of the solar power market in Japan the total - sales and surplus - sales model will decrease the market share, the self-consumption model will be mainstream.

It is impossible to stay electricity without battery. The battery will become mainstream of this market in the near future.

Leading the new era. "Maxar battery"

Maxar® BATTERY Energy Storage System <Maxar>

Without slowing down, we keep on developing the Maxar® battery, such as the portable type that can be used anytime, the single-function type that focuses on cost savings, and the large industrial unit.

The wide range of our battery lineup

Industrial type

- 1000kWh → Unit type
- 100kWh~ → Unit type
- 20kWh~ → Unit type



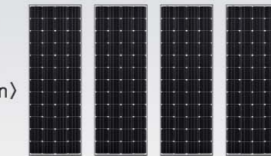
Residential type

- 10.2kWh → Single function type

Maxar® CHARGE Emergency System <Maxar>



Lightweight module
215W x 4
(wall installation)



Backup system for emergencies

Charger controller
(indoor installation)

DC/AC inverter
(indoor installation)



Lead battery / 12V50Ah: 4units
(indoor installation: stored under floor)



Products for emergencies

- 2.4kWh → "Rakudenkun 2"
- 0.4kWh → "Rakudenkun"



Maxar® CHARGE portable

The Rakudenkun series can also be used as an emergency power supply in cases of storms or flood damage.

The Rakudenkun series are portable power storage systems. You can use electricity anytime and anywhere.



Foldable
It is 5kg in weight, so you can easily carry it in one hand.



Compact size
Only 5.5kg



Construction Machinery Business



We globally contribute to society through construction equipment that creates a bright future.

We have built a wide range of construction equipment networks not only in Japan but also in other Asian countries. Based on our excellent track record in sales, rental and leasing of used construction equipment, we are making further expansion of our activities throughout the world.

We are actively participating in infrastructure development projects in Southeast Asian countries. We have established a base in Dhaka, the capital city of Bangladesh, and are working to strengthen our bases and strongly promote our global strategy.



Special vehicles



Civil engineering machinery



Generators



Road construction machinery

We handle world class manufacturers, such as SANY.

We handle world class manufacturers all over the world, including SANY, which boasts a world-class track record. We respond to a variety of customer needs.



Overseas ODA Business Sites

Delivered within one week of procurement.

By making full use of our network not only in Japan but also in other Asian countries, we can respond quickly to our customers' requests. We have established a local enterprise in Bangladesh where our specialized staff work for our customers' needs at all times.

We are participating in the global infrastructure development business.

Dhaka City Transportation Improvement Project

Road construction is delayed in the Dhaka metropolitan area. That causes chronic traffic congestion, which leads to air pollution from exhaust fumes. In this project, we have provided equipment for urban high-speed railway construction to reduce the traffic congestion and to help switch to railways as the main form of public transport.

The Kanchpur, Meghna and Gumti 2nd Bridges Construction and Existing Bridges Rehabilitation Project

The economic corridor connecting Bangladesh's capital Dhaka and Chittagong is the economic artery of the country. In order to ensure the safety of bridges on the economic corridor due to the increased traffic, we are supporting the renovation of three bridges and the construction of new bridges.

Company Profile

Company Name WWB Corporation

Representative CEO Yuichiro Masuda

Establishment June 2006

Capital One hundred million JPY
(Capital increase date : February 2, 2021)

Business Details [Green Energy Business]
Planning, manufacturing, import and export, sales and construction of products related to solar power generation systems, OEM of the solar module Maxar (WWB Solar)
Sales of residential low pressure systems, EPC business, SPC business, energy system integration business for planning, manufacturing, import and export, sales and construction of next-generation green energy products
[Construction Machinery and Construction Equipment Business]
SANY and SUNWARD authorized agent, import, sales and rental of used construction machinery, used special vehicles and used ships

Number of Employees 31 (as of April 01, 2021)

Major Group Companies Abalance Corporation
Valors. Inc.
Valors Engineering Co., Ltd.
Japan Photocatalyst Center Co., Ltd.
Fuji Solar Corporation
Vietnam Sunergy Joint Stock Company
VSUN JAPAN CORPORATION

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Main Bank Mizuho Bank
77 bank
Kiraboshi Bank
Johnan Shinkin Bank
Japan Finance Corporation
Shiba Shinkin Bank
Ricoh Leasing Company, Ltd.

Main Clients Obayashi Corporation
Shimizu Corporation
JFE Engineering Corporation
IHI Corporation
Marubeni Corporation
Yuasa Trading Co., Ltd.
Mitsubishi Electric Corporation
Toshiba Corporation