

## Results Presentation for Fiscal Year Ended August 31, 2022

October 27, 2022



### **Contents**



- Company Profile
- Overview of Results in Fiscal Year Ended August 31, 2022
- Forecasts for Fiscal Year Ending August 31, 2023, Medium-Term Management Plan



## Purpose of the West Group



## ■ Corporate Philosophy

All people working at the West Group must be well off and happy.

To that end, the Group will always be changing, believing in infinite possibilities. The Group will promote employees' happiness and seek the development and prosperity of the Company through work that will satisfy customers. The West Group will continue to create new businesses through constant change and creation, based on its corporate philosophy, which has not changed since its founding.

### Vision

"We will promote renewable energy, primarily solar power generation, and energy saving to contribute to achieving a decarbonized society that does not depend on fossil fuels."

## History of the West Group



### Holding company

### Major operating subsidiaries



WEST ENERGY SOLUTION INC.

- Operating solar power plants that it owns
- Planning, designing, selling and building mega solar facilities for industrial use

WEST BEGIN CO., LTD

- System integration for smart grid products

[100%] \*

WEST O&M, INC.

WEST GROUP

[100%]

- Improving the operation of solar power plants (operation)
- Maintenance, management and monitoring of solar power plants (maintenance)

WEST International (Thailand) Co., Ltd. [49%]

- Energy solutions and services in ASEAN countries, primarily Thailand

WEST GREEN POWER CO., INC.

[100%]

Purchase and wholesale of renewable energy

skyer-west Inc.

[100%]

 Inspection of solar panels etc. using drones, cultivation of human resources that can use drones

## History of the West Group



- The West Group makes changes promptly in response to the changes of the times.
- The West Group always "creates changes."

#### 1981

Construction materials trading company

Nishi-Nihon Kanesho founded in Hiroshima

#### 1985

Japan's No. 1 in roofing tiles installation

Rooftop tiles department established

Receives an order for the repairing of the rooftop tiles of the tower of Hiroshima Castle damaged by the Geiyo earthquake in 2002

#### 1993

Evaluation of the seismic capacity of concrete structures and related repairs

Starts evaluation of the seismic capacity of buildings and related repairing Buildings restoration work after the Great Hanshin Awaji Earthquake (Buildings restored) Hyogo prefectural office building, Kobe municipal government office building,

#### 1995

Planning of houses and sale of them

Plans Honebuto Jutaku houses and starts the sale of them

Broadcasts TV commercials nationwide, employing actress Kiki Kirin

#### 2005

All-electric homes, solar power generation

Forms an alliance with Yamada Denki

Creates renovation shops in stores

#### 2011

Medium-sized solar power facilities

Starts the planning, development and building of high-voltage solar power plants







Sogo department store, etc.









#### 2012

Mega solar power

Starts the planning, development and building of mega solar plants



#### 2015

**Energy Saving Business** 

West Esco service, an energy saving service, starts



#### 2016

Overseas (Asia) business

A subsidiary established in Thailand Develops the solar power business and the energy saving business in ASEAN countries





#### 2018

Starts emissions trading

Participates in the J-Credit Scheme



#### 2020

Non-FIT power plants

Starts development of non-FIT power plants Establishes West Green Power, a company dealing in non-FIT power sources



#### 2022

Starts operating under the Sustainable Standard

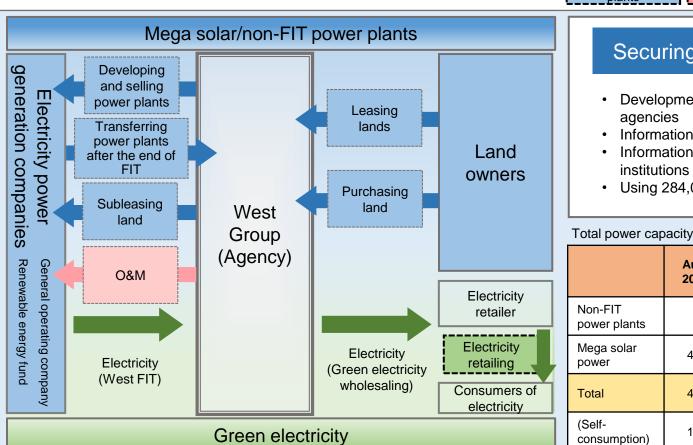
Starts providing a package of services including the visualization of CO<sub>2</sub> emissions, carport-type solar power generators, and a self-wheeling system

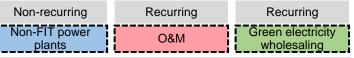
## The West Group's Strategy



### Aiming to become Japan's largest fabless renewable energy power company

- > Securing renewable energy power sources without increasing assets
- Pursuing non-recurring revenue and recurring revenue at the same time





#### Securing construction sites

- Development by community-based agencies
- Information from local governments
- Information from partner financial institutions
- Using 284,000 ha of desolate farmland

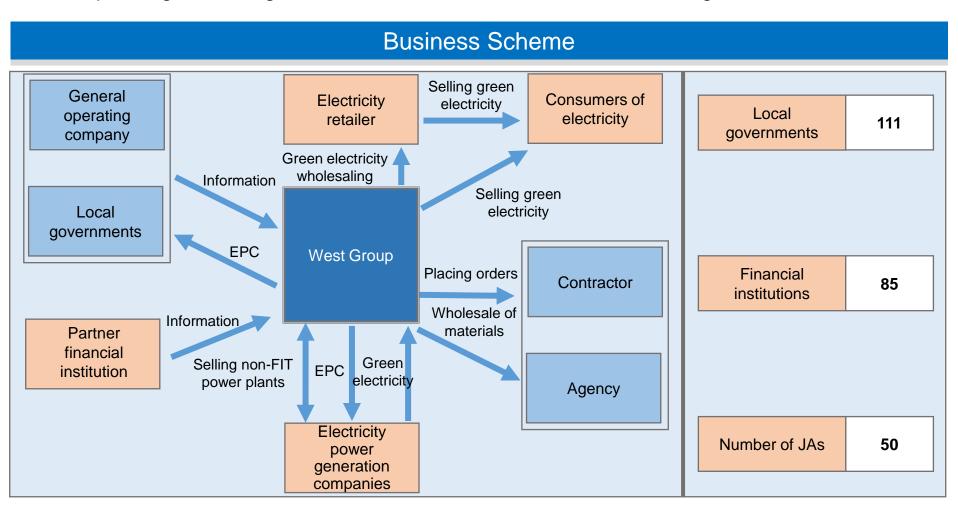
Total power capacity (1					
	Aug. Aug. Aug. 2022 2023 2024		Aug. 2025		
Non-FIT power plants	18.2	288.2	738.2	1,278.2	
Mega solar power	461.0	468.5	469.0	471.7	
Total	479.2	756.7	1,207.2	1,750.0	
(Self- consumption)	104.5	239.8	435.9	671.2	

(MW)

## Position of the West Group



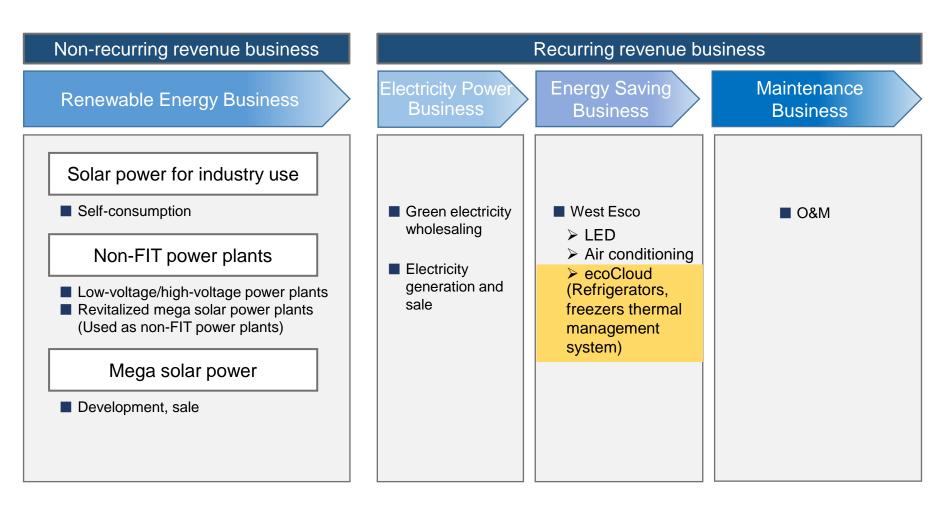
- Renewable energy platformer
- Cooperating with a large number of financial institutions and other organizations



## Overview of Segments



- Integration of planning, construction, cooperation, O&M, and renewal
- Comprehensive cross-selling proposals to customers



## The West Group's Track Record



#### Solar power generation 66,284 sites/2,323,283kW

# Mega solar

309 sites 425,494kW

Residential solar



16 sites 21,425kW



751 sites 25,560kW



12,519 sites 1,502,280kW



West FIT



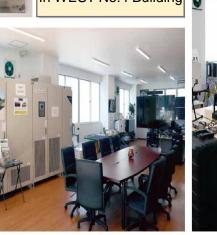
123 sites



"Electric Park" located In WEST No.4 Building

O&M number of contracts

[High voltage/Special voltage 526 sites/560MW]





52,348 houses 256,505kW



86 sites 8,600kW



71,880kW



11.539kW

\* As of July 2022

### **WEST GROUP** qualified engineers list

First-grade electrical construction management engineer: 17	Type-2 electrical engineer: 43	First-grade civil engineer:	8
Second-grade electrical construction management engineer: 4	First-grade telecommunications construction management engineer: 2	Second-grade civil engineer:	4
Type-1 chief electrical engineer: 2	First-class qualified senior architect: 4	First-grade plumbing management engineer:	3
Type-2 chief electrical engineer: 5	Second-class qualified architect: 5	Second-grade plumbing management engineer:	5
	First-grade architecture construction management engineer: 8	Chief water supply system construction engineer:	3
Type-1 electrical engineer: 31	Second-grade architecture construction management engineer: 2	Real estate Notary: 1	3

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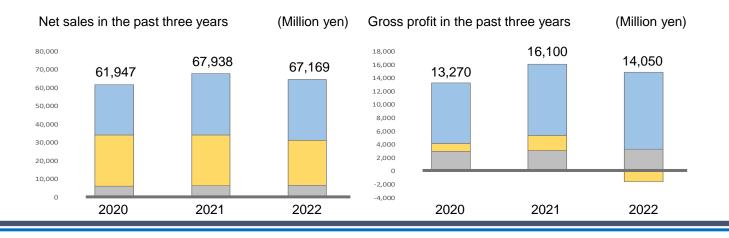
## Overview of Results in Fiscal Year Ended August 31, 2022

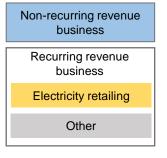


	Aug. 2020	Aug. 2021
	Results	Results
Total sales at West Group	61,947	67,938
Renewable Energy Business	28,094	31,546
Energy Saving Business	1,972	2,361
Electricity Retailing Business	28,077	27,800
Electricity Generation and Sale Business	2,689	2,481
Maintenance Business	1,113	1,463
Other	0	-
Operating profit	7,180	10,148
(Operating profit margin)	11.59%	14.94%
Ordinary profit	6,615	9,648
Profit attributable to owners of parent	4,417	6,495

Aug. 2022			
Initial plan	Results		
91,250	67,169		
52,981	35,972		
2,151	1,945		
31,145	24,844		
2,255	2,832		
1,514	1,700		
1,204	1		
11,672	7,770		
12.79%	11.57%		
10,972	7,293		
7,132	4,257		

7				
	(Million yen)			
	Year on year			
9	98.9%			
2	114.0%			
5	82.4%			
ļ	89.4%			
2	114.1%			
)	116.2%			
	_			
)	76.6%			
þ	77.4%			
3	75.6%			
7	65.5%			
_				

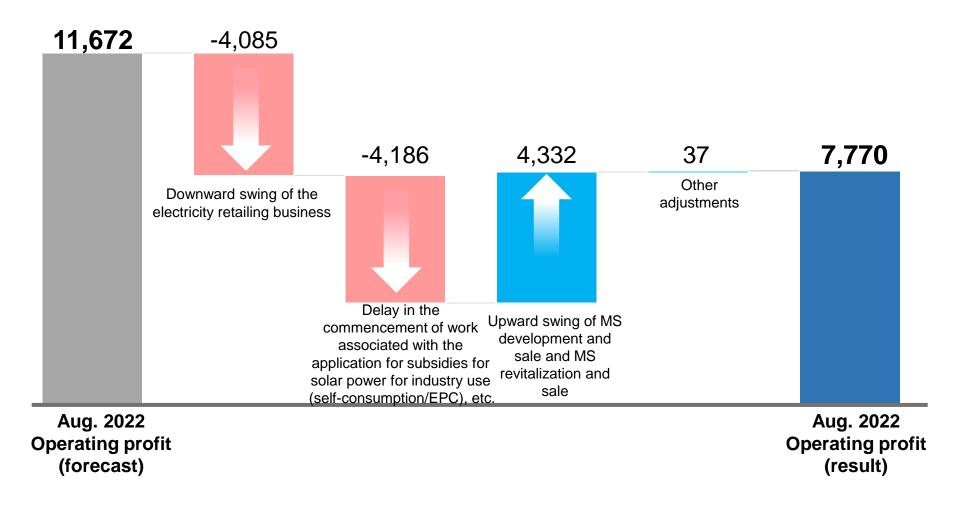




## Operating Profit in the Fiscal Year Ended August 31, 2022



(Million yen)



## Renewable Energy Business: Highlights by Segment



Mega solar development and sale Strong results posted, as were posted last year

■ Sold 8 facilities with a capacity of 22.0 MW, with annual sales of 9,170 million yen

Revitalization of mega solar facilities

Strong results posted, as were posted last year

■ Sold 34 facilities with a capacity of 36.3 MW, with annual sales of 11,836 million yen

Solar power for industry use (Self-consumption) Orders continued to increase steadily since last year

Completion of some facilities was delayed due in part to the extension of the application deadline for subsidies

Non-FIT power plants (West FIT)

- Focused efforts on securing a large number of construction sites and on applications for grid connections with power transmission and distribution companies
- A large amount of sales was not achieved due to delays in the responses of the power transmission and distribution companies regarding grid connections

## Energy Saving Business, Maintenance Business WEST GROUP



## **Energy Saving**

Orders have been steady since the start of the service, which resulted in steady split sales Trends in sales and asset balance since the start of the service (Million yen)

Fiscal year	Aug. 2018	Aug. 2019	Aug. 2020	Aug. 2021	Aug. 2022
Sales	1,232	1,641	1,972	2,289	1,945
Asset balance	4,191	4,798	4,995	4,623	4,351

## Maintenance (O&M)

Synergy with the mega solar development and regeneration businesses contributed significantly. (Million yen) (Photos of maintenance by the Company)

	Aug. 2021	Aug. 2022
Sales	1,495	1,700
MW under contract	591.0	645.0





## **Electricity Power Business**



## Electricity retailing

Surging energy prices

Difficulty of securing power sources

Tight electricity supplydemand balance

Difficulty of securing power sources

Posting of operating loss

- Decided that West Electric Power Co., Inc. would withdraw from the electricity retailing business on March 25, 2022.
- Ended electricity supply in this business on June 30, 2022.
- Posted extraordinary losses of approx. 1,500 million yen as losses on withdrawal from the electricity retailing business.

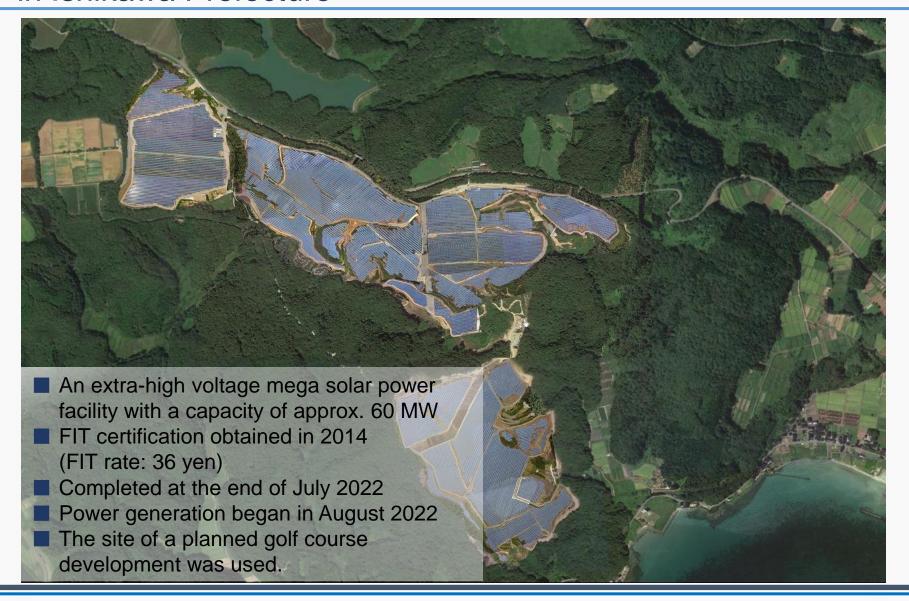
## Electricity Generation and Sale

■ An extra-high voltage (approx. 60 MW) mega solar power facility (FIT rate: 36 yen) was completed at the end of July 2022 and it began power generation in August 2022.

## Anamizu Mega Solar in Ishikawa Prefecture

## Electricity Generation and Sale





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## Results Forecast for Fiscal Year Ending Aug. 2023 WEST GROUP



	Aug. 2022	Aug. 2023		
	Results	Forecast		
	Annual	1st half 2nd half Ani		Annual
Total sales at West Group	67,169	20,789	40,488	61,276
Renewable Energy Business	35,972	16,577	34,824	51,401
■ Solar power contracts for industrial use (Self-consumption)	10,761	9,100	11,600	20,700
■ Development of non-FIT power plants (West FIT)	914	2,507	11,574	14,081
Agencies engaged in the development of non-FIT power plants (West FIT)	858	3,399	10,388	13,787
■ Mega solar development	9,170	975	1,262	2,237
■ Revitalization of mega solar facilities	11,836	596	-	596
Electricity Power Business	27,855	1,959	3,398	5,357
■ Green electricity wholesaling	177	178	475	653
■ Electricity generation and sale	2,832	1,781	2,923	4,704
■ Electricity retailing	24,844	-	-	-
Energy Saving Business	1,945	1,064	1,064	2,128
Maintenance Business	1,700	845	859	1,704
Other	1	-	-	-
Operating profit	7,770	7,770 3,033 8,213		11,247
(Operating profit margin)	rgin) 11.57% 14.59% 20.29% 1		18.36%	
Ordinary profit	rdinary profit 7,293 2,733 7,913		10,647	
Profit attributable to owners of parent	4,257	1,858	5,281	7,240

(Million yen)

Year on year
Annual
91.2%
142.9%
192.4%
1540.6%
1606.9%
24.4%
5.0%
19.2%
368.9%
166.1%
109.4%
100.2%
-
144.7%
158.7%
146.0%
170.1%

## Medium-Term Outlook

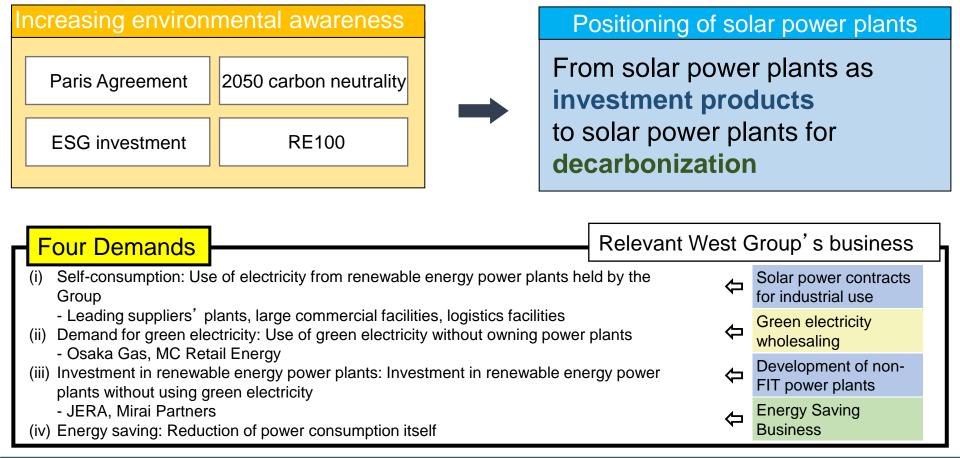
(Million yen)

	(Willion yen)				(Willifort yerr)
			Plan		
		Aug. 2022	Aug. 2023	Aug. 2024	Aug. 2025
Tota	Total sales at West Group		61,276	87,619	103,847
	Total sales at West Group	35,972	51,401	77,442	93,657
	<ul> <li>Solar power contracts for industrial use (Self-consumption)</li> </ul>	10,761	20,700	30,000	36,000
	■ Development of non-FIT power plants (West FIT)	914	14,081	23,795	28,566
	<ul> <li>Agencies engaged in the development of non-FIT power plants (West FIT)</li> </ul>	858	13,787	23,377	27,995
	■ Mega solar development	9,170	2,237	270	1,096
	■ Revitalization of mega solar facilities	11,836	596	-	-
	Electricity Power Business	27,855	5,357	5,626	5,621
	■ Green electricity wholesaling	177	653	942	942
	■ Electricity generation and sale	2,832	4,704	4,684	4,679
	■ Electricity retailing	24,844	-	-	_
	Energy Saving Business	1,945	2,128	2,092	2,032
	Maintenance Business	1,700	1,704	1,773	1,851
	Other	1	686	686	686
Оре	erating profit	7,770	11,247	18,778	22,983
(Op	erating profit margin)	11.57%	18.36%	21.43%	22.13%
Orc	linary profit	7,293	10,647	18,128	22,233
Pro	fit attributable to owners of parent	4,257	7,240	12,327	15,118

## The West Group's Strategy

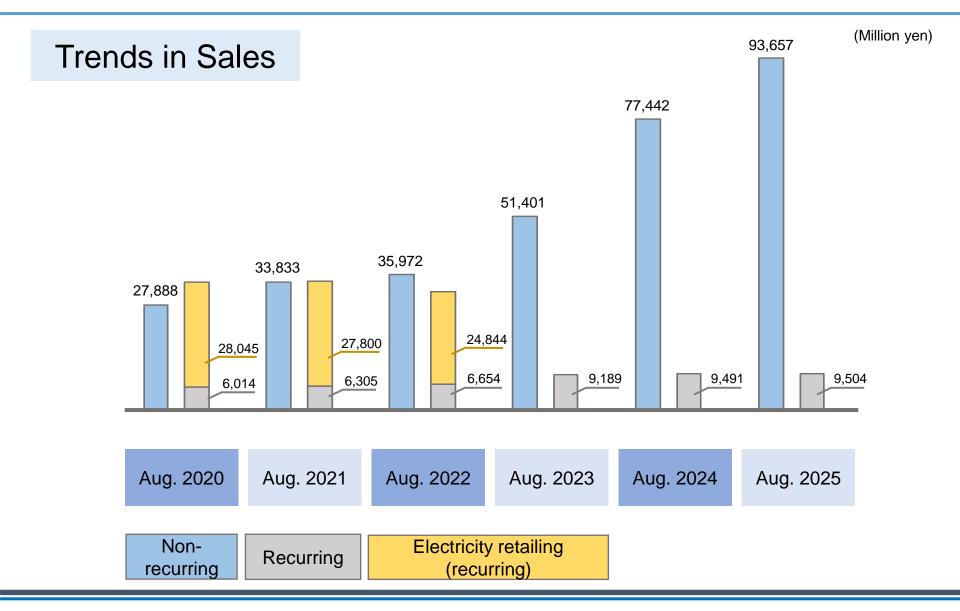


- Full transition to non-FIT business
- The position of solar power plants in Japan is changing.



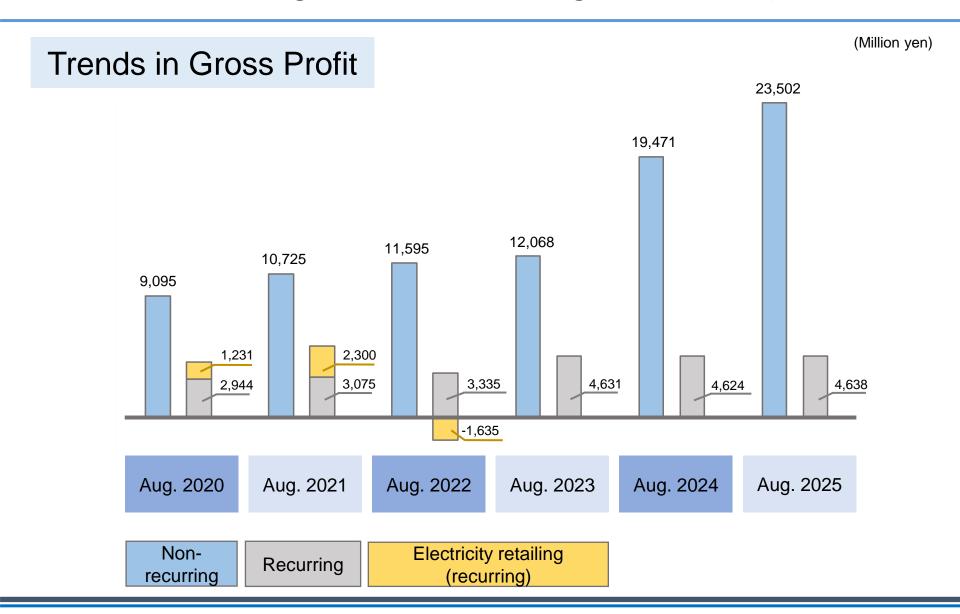
## Trends in Recurring and Non-Recurring Revenue WEST GROUP





## Trends in Recurring and Non-Recurring Revenue WEST GROUP





## Sales and Gross Profit in West Group's Recurring Revenue Business



Comparison with results in fiscal year ended Aug. 2022

Already achieved net sales for **1.7** years and a gross profit for **3.6** years.

(Million yen)

	Sales	Gross profit
Energy saving	13,615	6,807
Electricity Generation and Sale	76,440	30,576
O&M	26,200	15,196
Total	116,255	52,579

## Solar Power Contracts for Industrial Use (Self-consumption)



(Million yen)

	Aug. 2023	Aug. 2024	Aug. 2025
Sales	20,700	30,000	36,000
Order backlog at beginning of term	7,674	6,666	12,666
New orders	19,692	36,000	39,000
Order backlog at end of term	6,666	12,666	15,666

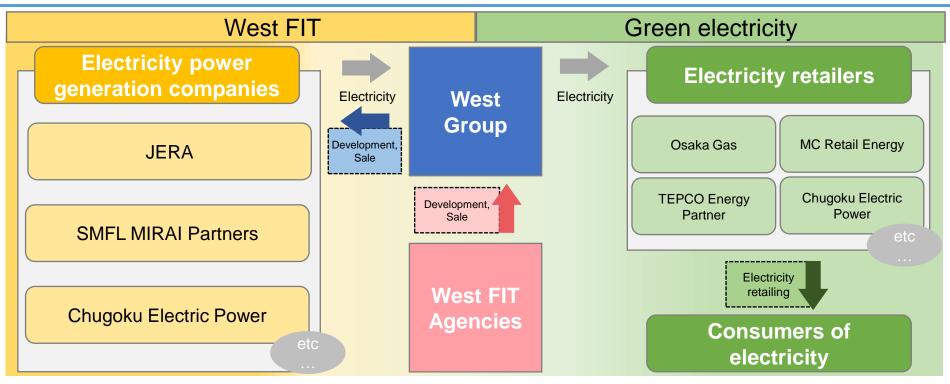
Partner banks	85
Priority banks	64
Total number of branches	7,446
Total number of major customers	593,000 companies

Broke away from the FIT scheme in FY2021.

→ The solar power contracting business for industrial use began to specialize in self-consumption in FY2022.

## Development of on-FIT ower lants (West FIT)





West FIT plan (Million yen, facility, MW)

	Aug. 2023		Aug. 2024			Aug. 2025			
	West Group	Agency	Total	West Group	Agency	Total	West Group	Agency	Total
Sales	14,081	13,787	27,868	23,795	23,377	47,172	28,566	27,995	56,561
Number of facilities developed and sold	1,500	1,500	3,000	2,500	2,500	5,000	3,000	3,000	6,000
Capacity of panels	135	135	270	225	225	450	270	270	540

## Electricity Business, Maintenance Business



## Electricity Generation and Sale

An extra-high voltage mega solar power facility with a capacity of approx. 60 MW was completed. Operation commenced in August 2022.

(Million yen)

	Aug. 2023	Aug. 2024	Aug. 2025
Sales	4,704	4,684	4,679

## Maintenance (O&M) Business

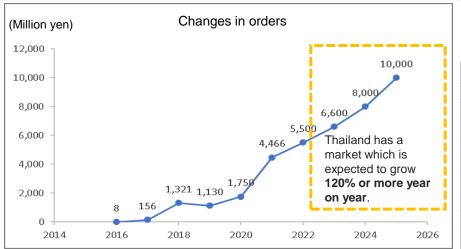
The entire amount is allocated to newly developed non-FIT power plants.

(Million yen, MW)

	Aug. 2023	Aug. 2024	Aug. 2025
Sales	1,704	1,773	1,851
MW under contract	654.3	672.3	696.3

## West International (Thailand)





Number of facilities			
Solar power	Other		
-	3		
1	18		
32	9		
16	4		
23	1		
38	1		
47	1		
57	-		
70	_		
85	-		
	Solar power  - 1 32 16 23 38 47 57		

- In Thailand, the achievement of carbon neutrality in 2050 and net zero emissions in 2065 have been set under the National Energy Plan.
- It is expected that the growth of demand for the introduction of solar power generation, from both Japanese and local companies, will continue to accelerate in Thailand.
- The West Group will further reinforce the construction management framework and continue to build and improve organizations to provide a framework for high-precision construction with safety-first principles and offer Japan-quality O&M through cooperation with companies in Japan.

As of September 30, 2022, orders have been received for facilities with a capacity of approx. 80 MW and 116 solar power generation facilities with a capacity of approx. 53 MW are operating.



NHK SPRING (THAILAND) Wellgrow Factory

3,013.20 kW













## Energy Saving Business Refrigerators, Freezers Thermal Management System Business

- A cloud-based equipment and temperature monitoring system, which is exclusively for freezers and refrigerators
- Patent applications were filed in Japan and overseas by three parties: the West Group, ETOS (manufacturer) and the University of Tokyo's Research Center for Advanced Science and Technology (RCAST).
- A demonstration experiment, which was conducted in an RCAST clean room, demonstrated that the cost of electricity was reduced by 43% following the introduction of the system.
- The only single system that can provide benefits including reduction of electricity costs, CO₂ emissions, and the cost of security services

#### Three features



Monitoring equipment and temperature

Checking inside temperature anywhere, anytime, 24 hours a day

Demand monitoring Safe automatic control keeping temperature

Visualization

Making data visible and improving energy saving effectively

Freezing and refrigerating equipment





#### Installation example: Distribution warehouse





#### Number of control points: 4

Freezers and refrigerators: 4

(Temperature range Refrigerators: 4°C, Freezers: -23°C)

Number of measurement points: 8

Demand: 1

Freezers and refrigerators: 4 Temperature sensors: 3

Reduction of annual electricity costs

1,066,000 yen

Reduction of CO<sub>2</sub> equivalent emissions

**2.8** tons

### [Appendix]

## Business Alliance with Shell Japan

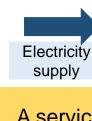


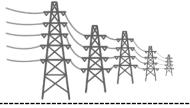
- Began to operate the self-wheeling service, which permits the electricity generated by solar power generation facilities installed on land or buildings to be used in distant places.
- Formed a business alliance with Shell Japan concerning the prediction of both the amount of electricity generated and the size of the electricity demand.
- Accumulating data on power plants owned by the West Group and using AI to improve the accuracy of the prediction of the amount of electricity generated
- Promoting the carbon neutrality of consumers with services for the construction of power plants in remote areas and the prediction of the amount of electricity generated

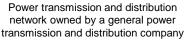
Self-wheeling service

Using the power transmission and distribution network for the consumption of electricity generated by in-house power generation equipment in other places

In-house power generation equipment owned by a consumer

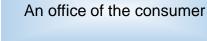








A service predicting the amount of electricity supplied and the size of the demand for electricity







The West Group & Shell Japan

## WEST SUSTAINABLE STANDARD



#### **WEST SUSTAINABLE STANDARD**

#### Visible CO2 emission

#### Cloud service to check CO2 emission level



"ASUZERO" application offers auto calculation by Al, carbon neutral planning, offset and other various function by very easy operations, makes your task more easily, quickly so that you can find out shortcut to the way to Carbon neutral.

#### CoCoLo project de SDGs

#### Promote SDGS with Renuable Energy and Energy Saving

#### CoCoLo project

Available Services

①Self-consump solar power generation
②Surplus sales solar power generation
③West Esco(LED Lighting system)



By introducing Self consumption solar power generation, surplus sales solar power generation and LED lighting, the reducted value of power consumption can be transferred to "J-Credit" system which is an environmental value.

The created value by reselling of "J-Credit" can be utilized to localized contribution activities use like support of perenting or afforestation.



Targetring to accusive Carbon neutral in 2050, we will contribute to launch information, to promote technologies or services to the industries or consumers as well as take on the role to be collaborated among industry, government, academy and financial

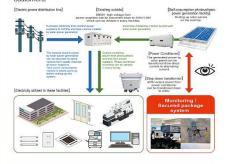


owners who has donated their land for the purpose of global environment protection by issuing certificate of appreciation of the Council.

#### Solar Power Generation System

WEST GROUP offers perfect package systems for self-consumption solar power generation.

Easy understanding block explanation is available for the



#### Maintenance service



Maintenance seminars are serialized in journal/magazine for experts. Technical level in such seminars are top level ("Shin Denki" issued by publisher Ohm.

#### Battery system



We can provide battery system from smaller size to bigger size of 159kWh as our lineup. They contribute to protect from backout for certain time due to unavailability of power supply. By the combination with solar generation system.

due to unavailability of power supply.

By the combination with solar generation system, you can get power for commercial use under backout conditions.

#### "Blackout avoidable roadside shop" Available first in Japan



Under current abnormal weather conditions, there increases a number of blackoot due to sudden beary rain in summer time.

WEST GROUP offers solutions for such problems carried by municipatities.

"Ellackout avoidable roudside shop" has been available in Akitalada oily in Hiroshima.

#### WEST solar power generation package system

	Standard 50	Standard 100	Standard 150
Minimum necessary area	more than 700m <sup>2</sup>	more than 1,400m <sup>2</sup>	2,100m² over
PCS capacity	49.5 kW	100.0 kW	150.0 kW
Power conditioner (PCS)	1 set	2 sets	3 sets
Step down transformer (DTr)	1 set	2 sets	3 sets





#### WEST solar carport

If you can not have enough results by roof top system, we can offer "WEST SOLAR CARPORT" system which allows to set up above the parking lot.







Double wing type Parking capacity: 8 cars, 12 cars, 16 cars

Single wing type

Parking capacity:
4 cars, 8 cars, 10 cars, 12 cars

#### WEST secured monitoring package system 3 advantages

#### 24hours 365 days monitoring service

In case unusual accident happens, we send a chief electrical engineer to the site.



#### Emergency patrol service

Depending on unusual situation in the site, check

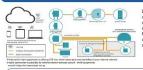


#### Drone inspection service

After 5 years since transferred its ownership of the site, we inspect the site by utilizing drone.



#### **Demand Control**



Demand control means controlling system for consumption volume of electricity f or commercial use by utilizing monitoring, adjustment control as scheduled. By introducing such demand controlling system, unnecessary electricity corsumption can be saved and possible to out off electricity costs.



tokyo University in Erasadi u Jenier Io Avvaniceu autemini technology Electricity saved max 43% for air conditioner in their clean room. Set up controlling system for air conditioner in their clean room in the research center for edvanced scientific technology, resulted max 43% energy seving of their preserv consecution.

#### **Energy saving solution**



"WEST ESCO" offers initial cost free program to install energy saving equipments.

By saving electricity power consumption, it leads to cost saving for

electricity cost. WEST is able to offer controlling system for refregiration and freezer equipments as WEST original.

## Note



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