

## Environmentally Friendly Business ENVIRONMENT



### ► Policy and Concept

#### ● Further developing and leveraging renewable energy

Our Group, as a leading company in zero-carbon energy, is committed to proactively developing renewable energy based on its improved development promotion system, focusing on offshore wind power generation, which has great development potential.

Through investment of a total 1 trillion yen in domestic projects, we aim to develop 5 GW scale of new development and to achieve 9 GW scale of cumulative capacity by 2040.

On the domestic front, for example, we focus on increasing output of existing hydropower stations and promoting solar power, onshore wind power, offshore wind power, biomass power and geothermal power generation, the total capacity of which stands at about 3.56 GW as of the end of March 2022. We also focus on commercializing projects in the development stage. In addition, we are committed to helping customers and society achieve zero carbon by contributing to local communities and supplying power sources that are either developed or acquired while reducing power generation costs to become independent from the FIT system.

### ► Goals

#### ● Advancing efforts to control CO<sub>2</sub> emissions

- Keep the top spot for the amount of zero-carbon power generation in Japan
- Halve CO<sub>2</sub> emissions associated with power generation in Japan in FY 2025 (compared to FY 2013)

#### ● Further development and utilization of renewable energy

- Achieve 5 GW scale of new development and 9 GW scale of cumulative capacity in Japan by 2040

### ► Efforts

#### ● Status of domestic development in fiscal 2021

- Work to improve Unit 2 and Unit 1 at the Maruyama Power Station started in December 2016 in the above order, followed by commencement of commercial operation in April 2021. This improvement work was designed to reinforce and elevate conduit structures and replace turbines and generators in preparation for a water surface elevation of 6.5 meters caused by the Shin Maruyama Dam (to be constructed by the Ministry of Land, Infrastructure, Transport and Tourism). As a result, the permitted output increased by 3,000 kW to 141,000 kW\*.

\* The permitted output will increase further to 153,000 kW, following completion of the Shin Maruyama Dam in 2029.

- In May 2021, the Company signed a comprehensive partnership agreement with Eco Style Co., Ltd. (headed by Masataka Kinoshita, president and executive officer) to offer renewable energy solutions, with a commitment to creating a zero-carbon society and promoting renewable energy.
- The Company, Osaka Gas Co., Ltd. and Development Bank of Japan jointly acquired Shizukuishi Solar Power Plant, Haru Mito Solar Power Plant, and Komatsu Solar Power Plant in June 2021, and Misawa Solar Power Plant in July 2021. These solar power plants in Japan were previously owned by the Canadian renewable energy power generation company Etrion Corporation.
- In June 2021, a consortium including the Company was selected as an operator by public offering for an offshore wind power project located off the coast of Goto City, Nagasaki Prefecture.
- In August 2021, the Company signed a partnership agreement with RWE Renewables Japan to study the feasibility of a large-scale floating offshore wind project.
- In September 2021, the Company took a stake in the CEF Tsuyama Wind Farm, an onshore wind farm project in Tsuyama City, Okayama Prefecture.
- In February 2022, the Kansai Electric Power Group started commercial operation of the Kanda Biomass Power Plant.
- In March 2022, the Company submitted documents on planning-stage primary environmental impact considerations, etc. to the Ministry of Economy, Trade and Industry in compliance with the Environmental Impact Assessment Act, followed by consultation with prefectural governors from Saga, Nagasaki, and Fukuoka. The objective was to study the development of an offshore wind farm project located off the coast of Karatsu City, Saga Prefecture.



## ● Expansion of renewable energy projects overseas

Our Group is participating in 11 overseas renewable energy projects with total 1.09 GW\* share equivalent installed capacity. Of these projects, two offshore wind projects in the UK commenced commercial operation in April 2022, and an onshore wind project in Finland commenced commercial operation in June 2022.

\* As of the end of June 2022, projects under development included.



Triton Knoll Offshore Wind Power Project in the UK



Piiparinmäki Onshore Wind Farm Project in Finland

- ◆ Our Group have 4.246 GW of share equivalent renewable energy capacity in operation inside and outside Japan (as of the end of FY 2021)

## ● Performance data

Development and promotion of renewable energy		Unit	FY 2019	FY 2020	FY 2021
Development and promotion of renewable energy	Capacity of facilities that have begun operation (completed construction)	10,000 kW	388.58 (43.00)	414.17 (68.50)	424.63 (68.50)
	Projects underway		54.02 (23.20)	61.30 (26.40)	70.40 (40.40)
	Aggregate capacity		442.60 (66.20)	475.47 (94.90)	495.03 (109.00)
• Solar power generation	8.17 (0.00)		11.31 (0.00)	13.06 (0.00)	
• Wind power generation	30.95 (28.60)		59.65 (57.30)	77.36 (71.50)	
• Hydropower generation	377.80 (37.60)		378.84 (37.60)	378.95 (37.50)	
• Biomass power generation	25.67 (0.00)		25.66 (0.00)	25.66 (0.00)	
• Geothermal power generation	0.01 (0.00)		0.01 (0.00)	0.01 (0.00)	

The figures in parentheses represent those for overseas projects.

Note: Components may not add to the total due to rounding of figures.

