Eurus Energy

Eurus Energy Holdings Corporation

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VEGETABLE OIL INK

1K-202107

Eurus Energy

CORPORATE PROFILE

Eurus Energy Holdings Corporation

Helping to Preserve the Global Environment through Clean Energy Technologies

The grave concerns over energy security and global warming have been increasing the worldwide attention upon renewable energies.

Eurus Energy Holdings is a corporation owned jointly by Toyota Tsusho Corporation and the Tokyo Electric Power Company Holdings, Incorporated, and its group is actively pursuing wind power generation projects in U.S., Europe, Asia-Pacific, and Africa to meet the social need for energy supply and reduction of environmental burdens. By dint of abundant experience and know-how acquired over many years, Eurus Energy Group has entered into photovoltaic power generation projects since 2008. Eurus Energy Group is operating mega solar PV power plants in the US and South Korea. As for our activities in Japan, Eurus Energy Group was involved in operation of the largest domestic mega solar plant.

Eurus Energy Group will steadily perform its duties and responsibilities in line with its corporate philosophy of "Helping preserve the Earth's healthy environment through the promotion and expansion of clean energy. " At the same time, Eurus Energy Group will continue endeavoring by all means to be appreciated highly by our stakeholders as an entity to set great store by the growth in harmony with the only one Earth, social credibility, good communication with local communities, and efforts to maintain and improve the mutual trust with the local people.

Our Advantages

Global Renewable Energy Development to Gain Social Trust and Meet Society's Expectations

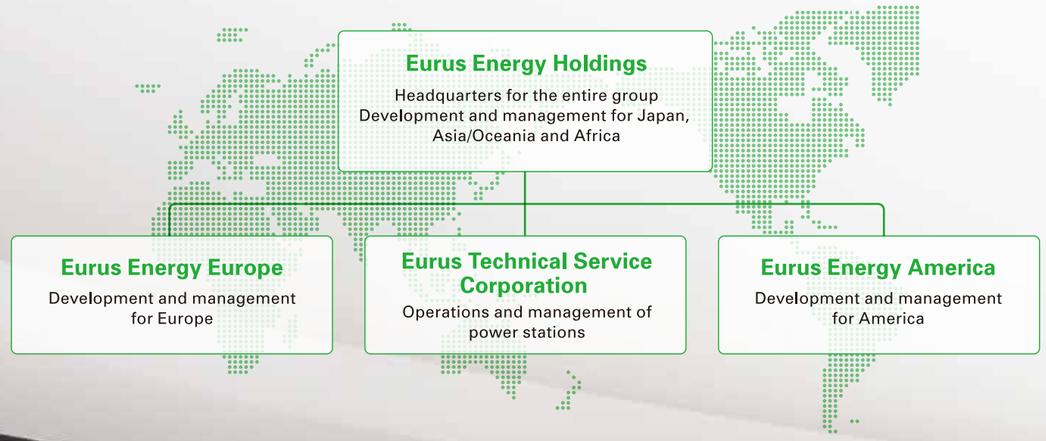
Eurus Energy Group is expanding its renewable energy development globally and is undertaking innovative activities in order to contribute to the advancement of the local community.

Working for the Development of Renewable Energies over Many Years

Since the launch of our wind energy business in the United States in 1987, we have consistently engaged in power generation through development renewable energy. Eurus Energy Group's global business development is backed by industry performance spanning more than 30 years.

Dispersing Business Risk over Four Regions: Asia/Oceania, United States, Europe

Eurus Energy Group has locations in four regions worldwide Asia/Oceania, United States, Europe and Africa in order to diversify its power generation facilities, thus hedging business risks against wind conditions change or energy policy changes in each region.



Integrated Process from Development and Construction to Operation

At Eurus Energy Group, we drive forward projects utilizing our specialized and technical experience and experience in the three phases of business.

Development
Location survey, determination of facility scale, wind and sunlight studies, environmental impact assessment, business plan formulation, etc.

Construction
Design, approval procedures, notifications to government agencies, construction supervision, etc.

Operation
Operation supervision, facility maintenance and inspections, repairs and servicing, etc.

Focusing on Development/Operation Optimization and Generation Capacity Improvement

At Eurus Energy Group, we work constantly to optimize developmental and operational costs and construction methods to achieve the best facility design to address wind and sunlight conditions. There are also permanent operation maintenance staff employed at each facility to swiftly respond to any potential issues. In these ways, we strive for safe operations and capacity improvement for wind power generation.

Strict Corporate Philosophy and Fulfillment of Social Responsibilities

In order to realize Eurus Energy's corporate philosophy to help preserve the global environment by disseminating and expanding clean energy technologies, we comply with the following rules.

1. Comply with all applicable laws, rules, and regulations
2. Gain trust
3. Disclose information appropriately and maintain open communication
4. Preservation of the environment
5. Respect and understand different cultures and make a contribution to the local community
6. Create a work place environment that helps employees manifest their abilities
7. Shut off relationships with any organization or group that opposes public interest
8. Respect intellectual properties and confidential information
9. Improve company structure and hold employee training
10. Detect, correct, and prevent violations of the ethics standards

Wind Power

Clean and Safe Wind Power Generation Creates a Sustainable Future

Wind energy is a renewable energy source, which exists inexhaustibly in nature.
As a clean energy that does not emit CO_2 during power generation
it contributes to the prevention of global warming.
The total capacity of wind power generation facilities worldwide shows
a year-on-year growth of 10% and wind energy is expected to continue
to play a crucial role as an important energy source in the future.

Wind Power Generation Boasts Excellent Performance in Major Countries

Eurus Energy Group first launched the wind energy business in the United States in 1987
and has since developed business in various European countries including the United Kingdom,
Italy and Spain. We continued to expand by building the first wind farm in Japan and entering the wind energy
business in South Korea, Australia and Uruguay. And we also expanded its Business to Africa. Eurus Energy Group
has received high acclaim both in Japan
and throughout the world for its original and outstanding wind energy development and operation experience
accumulated over the years. We will continue to aim for the reliable operation of our power plants
while working for harmony with our surrounding environments
and community revitalization as well helping to preserve the global environment.

● Project Overviews

Bull Creek Wind Farm
Texas, United States
180 MW
▸1MW×180 turbines /
made by Mitsubishi Heavy Industries (Japan)
In operation since May 2009

Windpark Lely
Flevoland, Netherlands
5.2 MW
▸2.6MW×2 turbines /
made by Lagerway (Netherlands)
In operation since May 2012

Minas Wind Farm
Lavalleja, Uruguay
42MW
▸3MW×14 turbines /
made by Vestas (Denmark)
In operation since January 2015

Gulf of Suez Wind Farm
Red Sea, Egypt
262.5 MW
▸21MW×125 turbines /
made by Gamesa(Spain)
In operation since October 2019

Llandinam Wind Farm
Wales, United Kingdom
30.9 MW
▸0.3MW×103 turbines /
made by Mitsubishi Heavy Industries (Japan)
In operation since March 1993

Eurus Soya Misaki Wind Farm
Hokkaido, Japan
57 MW
▸1MW×57 turbines /
made by Mitsubishi Heavy Industries (Japan)
In operation since November 2005

IVPC Wind Farm
Puglia and Campania, Italy
169.2 MW
▸0.6MW×282 turbines /
made by Vestas (Denmark)
In operation since December 1996

Taegisan Wind Farm
Gangwon, South Korea
40 MW
▸2MW×20 turbines /
made by Vestas (Denmark)
In operation since December 2008

Høg-Jæren EnergiPark Ⅰ/Ⅱ
Rogaland, Norway
73.6 MW
▸2.3MW×32 turbines /
made by Siemens (Denmark)
In operation since July 2011(Ⅰ)
In operation since November 2012(Ⅱ)

Hallett5 Wind Farm
South Australia, Australia
52.5 MW
▸2.1MW×25 turbines /
made by Suzlon (India)
In operation since September 2011

Solar Power

Solar Power Generation has High Potential as a Power Generation System that will be a Key Driver of Clean Energy

Photovoltaic power is a clean energy in which sunlight is converted directly into electricity utilizing semiconductors, such as silicon, and metal compounds to react to light. Polycrystalline silicon cells, which are easy to manufacture and relatively inexpensive, are mainly used for solar panels, which gather sunlight. Solar power is expected to be introduced and expanded steadily in the future due to the widespread distribution of irradiated areas around the world and the advancement of technological innovation in power generation.

Pioneering the Potential of Mega Solar Power

Electricity supply by solar and wind power is expected to expand further.
The business configuration of solar energy, from selecting a viable location to constructing and running a power plant, shares many common points with wind power generation.
Eurus Energy Group has begun, using its experience and expertise gained in the wind energy business to apply to solar power generation, and started operation of a photovoltaic power plant in South Korea in 2008.
Following this, Eurus Energy Group built the photovoltaic power plants of US in California in 2011, and was involved in the operation of the largest mega solar plant of Japan, and is now developing its photovoltaic energy business globally.
Eurus Energy Group is aggressively developing its photovoltaic energy business to become another pillar alongside its wind energy business.

● Project Overviews

Sunchang Photovoltaic Power Plant
Jeollabuk-do, South Korea
0.994 MW
▸ made by Mitsubishi Electric (Japan)
In operation since May 2008

Neipu Photovotaic Power Plant
Pingtung County, Taiwan
1.985 MW
▸ made by URE (Taiwan)
In operation since December 2020

Avenal Photovoltaic Power Plant
California, United States
45 MW
Sun City 20 MW, Sand Drag 19 MW, Avenal Park 6 MW
▸ made by Sharp (Japan)
In operation since August 2011

Waianae Solar Park
Hawaii, United States
27.6MW
▸ made by CanadianSolar (Canada)
In operation since January 2017

Marchigüe Solar Park
O'higgins, Chile
9MW
▸ made by CanadianSolar (Canada)
In operation since May 2017

Eurus Misaki Solar Park
Osaka, Japan
10MW
▸ made by Mitsubishi (Japan) Electric and Hyundai Heavy Industries (South Korea)
In operation since November 2013

Eurus Shiranuka Solar Park
Hokkaido, Japan
30MW
▸ made by Kyocera (Japan)
In operation since February 2014

Eurus Toyokoro Solar Park
Hokkaido, Japan
22MW
▸ made by SunPower (U.S)
In operation since February 2015

Eurus Tsunahigashi Solar Park
Hyogo, Japan
33.5MW
▸ made by Mitsubishi Electric (Japan)
In operation since June 2015

Eurus Rokkasho Solar Park
Aomori, Japan
115MW
▸ made by Mitsubishi Electric (Japan) and SunPower (U.S)
In operation since October 2015

Company Overview

Corporate name	Eurus Energy Holdings Corporation
Headquarters	Hulic Kamiyacho Building 7th Floor(Visitor Reception:2nd Floor) , 3-13, Toranomon 4-Chome, Minato-ku, Tokyo 105-0001, Japan (switchboard) TEL : 81-3-5404-5300 / FAX: 81-3-5404-5301 URL: https://www.eurus-energy.com/
Establishment	November 1, 2001 (renamed on September 30, 2002)
Shareholders	Toyota Tsusho Corporation: 60% / Tokyo Electric Power Company Holdings, Incorporated: 40%
Paid-in Capital	¥18,199.2 million
Employees	465* (as of April 1, 2021) *Eurus Energy Group
Fiscal Year-end	March 31

Directors and Officers

Board of Directors

President and CEO	Hideyuki Inazumi
Executive Vice President	Shoji Tsuchiya
Director	Yuichi Kiyooka
Director	Shinichiro Ichiyama
Director	Toshiro Hidaka
Director	Tatsuya Hirata
Director	Seiichi Suzuki

Corporate Auditors

Corporate Auditor	Akihiro Okubo
Corporate Auditor	Hideyuki Iwamoto
Corporate Auditor	Fuyuhiko Nishimura

Executive Officer

Executive Officer and Vice President	Kunio Umezaki
Senior Managing Executive Officer	Masaru Akiyoshi
Executive Officer	Seiichi Seo
Executive Officer	Koji Tsuchimoto
Executive Officer	Tetsuya Suwabe
Executive Officer	Hidenori Mitsuoka
Executive Officer	Takeshi Ito

Branches

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Wakkanai Branch
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Main Group Companies

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North Hokkaido Wind Energy Transmission Corporation
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TEL 47-52-98-60-90

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Eurus Energy Chile
Nueva Tajamar 481 Torre Norte, Of. 705 Las Condes, Santiago Chile

History

1986	October	Started wind power generation business as the Tomen Corporation (currently Toyota Tsusho Corporation)
1987	September	Started wind power generation projects in the United States (Mojave project, California)
1988	September	Established the Toyo Construction Company (formerly Tomen Power Corporation; currently Eurus Energy America Corporation)
1993	March	Started wind power generation projects in the United Kingdom (Llandinam and Rhyd-y-Groes projects, Wales)
1996	December	Started wind power generation projects in Italy (IVPC project, Puglia and Campania)
1997	April	Established Tomen Power Europe B.V. (currently Eurus Energy Europe B.V.)
1998	February	Started wind power generation projects in Spain (Paxareiras I& IIa projects, Galicia)
	September	Established Tomen Power Japan Corporation (currently Eurus Technical Service Corporation)
1999	November	Started wind power generation project in Japan (Eurus Tomamae Wind Farm, Hokkaido)
2001	November	Tomen Power Holdings Corporation spun off from Tomen Corporation to pursue its clean energy business.
2002	October	Changed name to Eurus Energy Holdings Corporation (Tokyo Electric Power Company Hoidings, Incorporated became a 50% shareholder)
2004	March	Shareholder composition changed (Tokyo Electric Power Company Holdings 60%, Tomen Corporation 40%)
2005	December	Started wind power generation project in South Korea (Gangwon Project, Gangwon)
2006	April	Shareholder composition changed (Tokyo Electric Power Company Holdings 60%, Toyota Tsusho 40%)
2008	May	Started the Eurus Energy Group's first photovoltaic power generation project in South Korea (South-West Sunchang Photovoltaic Power Plant, Jeollabuk)
2011	July	Started wind power generation project in Norway (Høg-Jæren EnergiPark Project, Rogaland)
	August	Started photovoltaic power generation project in the United States (Avenal Photovoltaic Power Plant, California)
2012	January	Shareholder composition changed (Toyota Tsusho 60%, Tokyo Electric Power Company Holdings 40%)
	May	Started wind power generation project in Australia (Hallett5 project,South Australia)
2013	November	Started photovoltaic power generation project in Japan (Eurus Misaki Solar Park, Osaka)
2015	January	Started wind power generation projects in Uruguay (Minas project, Lavalleja)
	April	Eurus Energy Japan Corporation was renamed to Eurus Technical Service Corporation.
2016	October	Started wind power generation projects in Finland (Kankaanpäänmäki and Mustaisneva projects, Southern Ostrobothnia)
	November	Started wind power generation projects in Netherlands (Windpark Netterden, Gelderland and 6states 8projects)
2017	September	Started photovoltaic power generation projects in Chile (La Esperanza and Marchigüe projects, O'higgins)
2019	October	Started wind power generation project in Africa (Gulf of Suez Wind Farm, Red sea)
2020	December	Started photovoltaic power generation project in Taiwan (Neipu photovoltaic power plant, Neipu)

Implementation Flow for Wind and Photovoltaic Power Development

The implementation of wind and photovoltaic power development requires the procedures generally described below.

STEP 1 Location Survey
- Identification of a promising location • Collection of wind and sunlight data
- Study of geographic conditions (natural and social environment)
- Estimation of number and size of facilities to be installed

STEP 2

Wind Study (wind power generation)
- Observation of wind conditions
- Assessment of wind characteristics and generating capacity
- Initial study of economic viability

Sunlight Study (photovoltaic power generation)
- Observation of sunlight conditions
- Assessment of sunlight characteristics and generating capacity
- Initial study of economic viability

STEP 3 Basic Design
- Determination of exact locations for facilities • Selection of equipment manufacurer
- Feasibility study (financing, etc.)

STEP 4 Consultations for Transmission of Electricity and Presentation of Business Summary
- Consultations with electricity companies, etc. about connection to transmission lines and trading electricity
- Presentation of business summary to the local parties involved

STEP 5 Approval Procedures
- Environmental impact assessment (noise, radio wave interference, visual impact, effect on plants and animals, etc.)
- Forest Act • Agricultural Land Act • Act for Improvement of Agricultural Promotion Areas
- Building codes • Aviation Act • Coast Act • Various ordinances, etc.

STEP 6 Approval
- Obtainig relevant necessary approvals from METI

STEP 7 Design
- Surveying work, geological analysis
- Facility design, construction design, construction planning, and transportation planning

STEP 8 Construction
- Facility transportation • Civil engineering work • Facility installation
- Electrical construction work • Test operation and inspection

STEP 9 Operation and Maintenance
- Supervision of operation conditions • Facility maintenance