

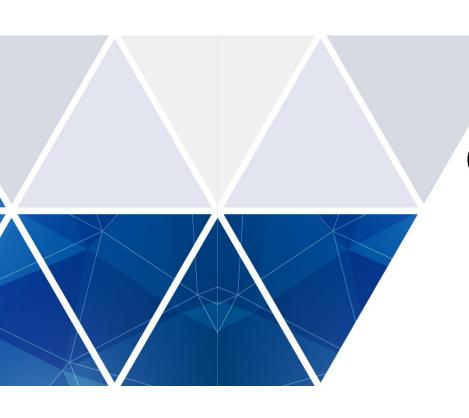
FY2020 ESG Presentation



March 1, 2021 OMRON Corporation

Contents

1. Corporate Philosophy Management and Sustainability	P.	2
2. Sustainability and Environmental Initiatives	Р.	12
3. Energy Solutions Business	Р.	17
4. Climate Change Initiatives	Р.	38



Corporate Philosophy Management and Sustainability

OMRON Principles

In 1959, OMRON Founder Kazuma Tateisi created the motto behind our growth: Solving social issues through our business

Our Mission

To improve lives and contribute to a better society



The spirit embodied in the founder's motto

- Companies have an obligation to serve society
- The determination to be a pioneer in driving social change

OMRON Principles

Our Mission

To improve lives and contribute to a better society

Our Values

- · Innovation Driven by Social Needs

 Be a pioneer in creating inspired solutions for the future.
- Challenging Ourselves
 Pursue new challenges with passion and courage.
- · Respect for All Act with integrity and encourage everyone's potential.

Omron Principles Revised May, 2015

Corporate Philosophy Management: Rooted in our Principles

The Management Philosophy creates a framework for embedding our Corporate Philosophy in our practices and operations

OMRON Principles

Our unchanging, unshakeable beliefs that are the cornerstone of our decisions and actions, and the driving force behind OMRON's growth

Management Philosophy

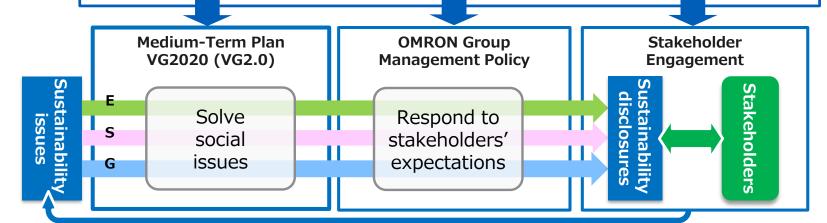
We believe a business should create value for society through its key practices.

We are committed to sustainably increasing our long-term value by putting Our Mission and Values into practice.

Uphold a long-term vision in business practices to create solutions to society's needs

Operate as a truly global company through our fair and transparent management practices

Cultivate strong relationships with all stakeholders through responsible engagement



Management Efforts to Inspire Resonance

Wide variety of unique activities to expand the circle of resonance and deepen understanding of the OMRON Principles













Corporate Philosophy in Action During COVID-19 Outbreak: HCB

Despite lockdown, the Italian production and development team increased production of medical aspirators to fulfil supply obligations





What is a medical aspirator?

A suction device for patients on ventilators to aid breathing by removing mucus or bodily fluids from the respiratory tract



Corporate Philosophy in Action During COVID-19 Outbreak: IAB

Collaborated with a partner to develop a UV disinfection robot as a solution to COVID-19 transmission risk



Corporate Philosophy in Action During COVID-19 Outbreak: IAB

Solutions created in Europe during the COVID-19 outbreak now

being deployed globally



Poland

S. Korea



Canada



France



Australia

Mexico

Brazil

OMRON's Corporate Philosophy Management

- The Principles are embodied in how we conduct our business
- We have created a culture that is rooted in "Our Values"
- Our global employees are capable of taking initiative independently

VOICE: Framework to Support Corporate Philosophy Management

Using VOICE to identify and solve issues. 5-fold Y/Y increase in additional comments as employees engage with management

Goal

To support OMRON's continuous development, Voice allows the management team to:

- 1. Measure the attractiveness of the workplace
- 2. Understand and identify issues
- 3. Create a framework for actions to solve issues

FY2020

Target

Global Employees 21,287 *

Overview Results

No. of respondents 19,176, response rate 90.0% No. of additional comments 40,453

Major programs introduced or revised as a result of VOICE feedback

■ Expand work from home program: FY19 (abolished limitations)

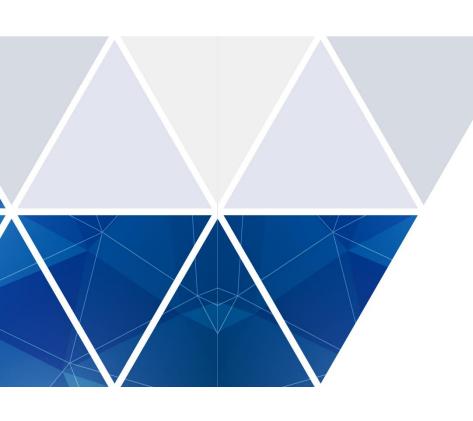
■ Introduce application system: FY18

■ Expand public job posting system: FY18 (increased number of companies

where program is available)

■ Start global corporate system project: FY18

*Excludes overseas production workers



Sustainability and Environmental Initiatives

OMRON's Sustainability Framework

Medium-term Plan earnings targets and business strategies aligned with sustainability issues

OMRON Principles

VG2.0

Business Strategies

Sustainability Issues

A value-generator for people and the Earth that is qualitatively and quantitatively superior

- 1. Reinforce businesses by designating focus domains
- 2. Business model evolution
- 3. Enhance core technologies







X

Collaboration with partners

Collaboration with partners



+

Human capital management, manufacturing, risk management...







OMRON Environmental Policy

Created Environmental Vision based on Corporate Principles.

Initiatives aimed at the realization of a better, sustainable society

Vision: Green OMRON 2020

OMRON Group Environmental Policy

In line with OMRON Principles, we will contribute to realizing sustainable societies, globally, by providing eco-friendly products and services that can contribute to the global environment and by efficient management of resources.

- 1. Provide eco-friendly products and services that can contribute to the global environment
- 2. Prevent Global Warming
- 3. Use resources efficiently

- 4. Co-existence with nature
- 5. Implement environmental management

OMRON Group Environmental Goals

- 1. Reduction of greenhouse gas emissions
- 2. Appropriate management and reduction of hazardous substances
- 3. Reduction of waste

- 4. Prevention of air, water, and soil contamination
- 5. Effective usage of water resources
- 6. Facilitating environmental management

Evolution of OMRON's Climate Change Initiatives

Strengthened initiatives in line with our Environmental Vision and Policy



2011

- Long-term Vision VG2020
- Environmental Vision Green OMRON 2020

Key Features of Our Environmental Actions

Ongoing environmental activities on 2 fronts: Providing products and services that contribute positively to the environment, while reducing the environmental impact of our business activities

Maximize the Effective Use of All Management Resources

(Improve energy, resource productivity)



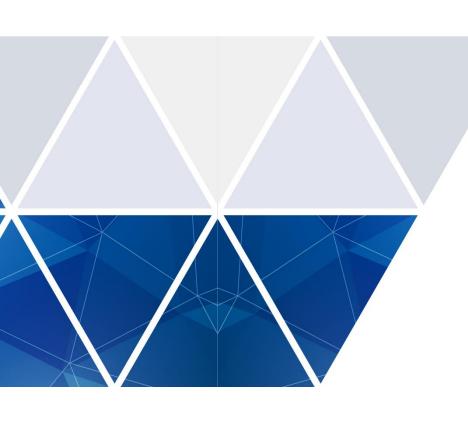
Products and Services Useful to Society

(Grow our businesses that have a positive impact on the global environment)



Greater

Efficiency



Energy Solutions Business

17

History of Energy Solutions Business

Started 85 years ago with protective relay business in 1934, 1 year after OMRON's founding. Environmental Business Promotion HQ set up in 2009 as an incubation business reporting directly to the CEO





2009











Developed improved protective relay for timers

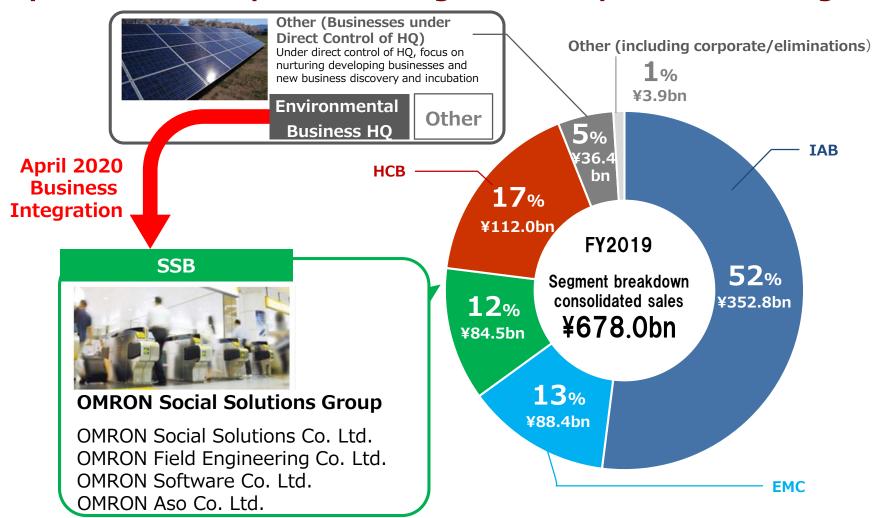
1st PV inverter developed, production started

Environmental Business Promotion HQ established

Integrated with SSB

Integration with SSB

Bolster Energy Business by combining Environmental Business, Social Systems with respective strengths in components and engineering



Vision for Energy Solutions Business

OMRON Social Solutions: Mission

Create a vibrant society where people around the world enjoy safe, secure and comfortable lives

Vision for Energy Solutions Business

Realize a circular society for the next generation through energy optimization

Progress on VG2.0 Sustainability Issues (Social Solutions)

Markets depressed by COVID-19 impact but expect a recovery going forward on rising market needs

Social Issues To be Solved

- Increase in traffic accidents and traffic jams
- Global warming from CO₂ emissions
- Slow expansion of the renewable energy market

Fiscal 2019 Progress

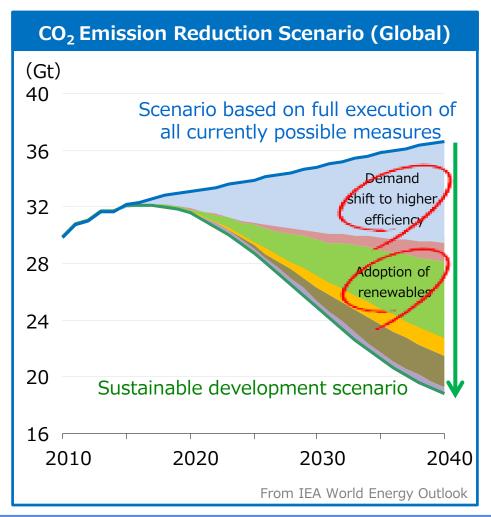
- Introduced tailgating detection function
- Solar power system: Cumulative shipping capacity 9.6GW
- Storage battery system: Cumulative shipping capacity 438MWh

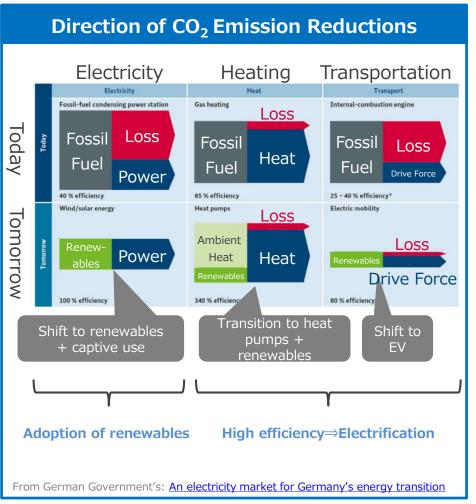
Fiscal 2020 Goals

- Creation of safe driving support systems and technologies
- Cumulative shipped capacity of solar power/storage battery systems: 11.2GW
- Build an energy resource aggregation business using solar power/battery systems(Japan)

Macro Trends in the Energy Business

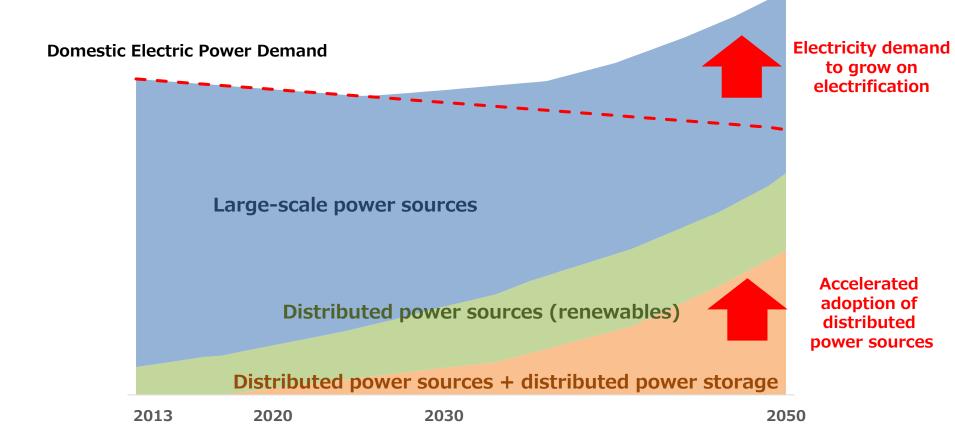
Countries accelerating adoption of renewables. Demand shifting toward higher efficiency to achieve CO₂ emission reduction targets





Decarbonization: Electric Power Demand Trends

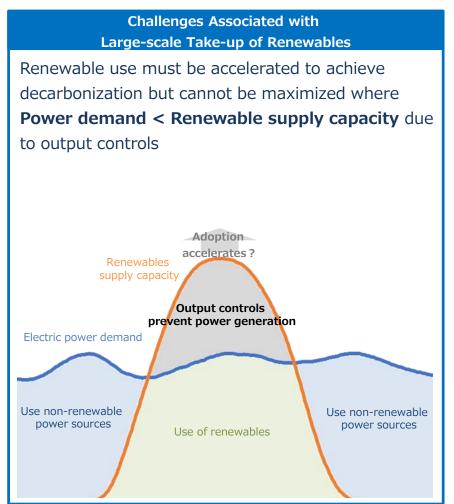
Electrification to drive a resurgence in domestic power demand in the longer term. Continued growth in renewables-based distributed power sources. Accelerating take-up of distributed power storage

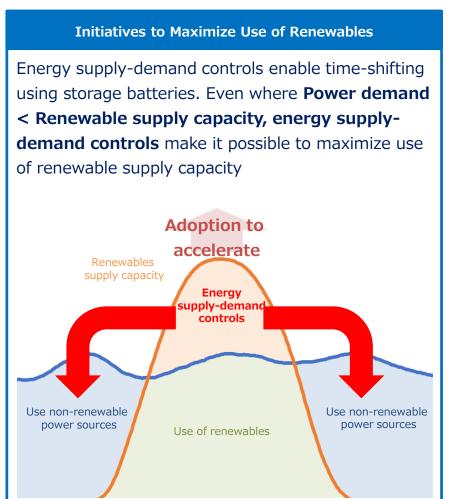


Based on Ministry of Environment's Long-term Low-carbon Vision Council materials, September 19, 2017

Challenges Associated with Large-scale Take-up of Renewables

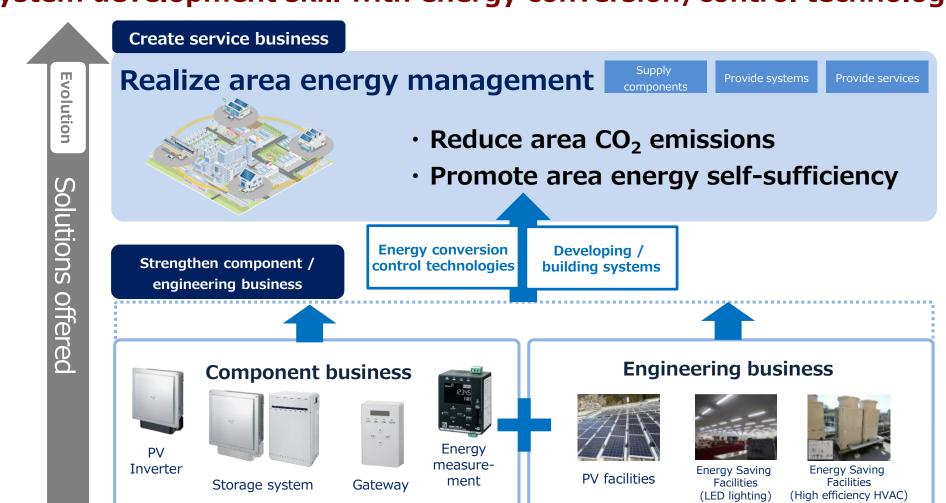
Balancing variability of demand, supply capacity an issue. Key is supply-demand controls that use storage batteries as control valves





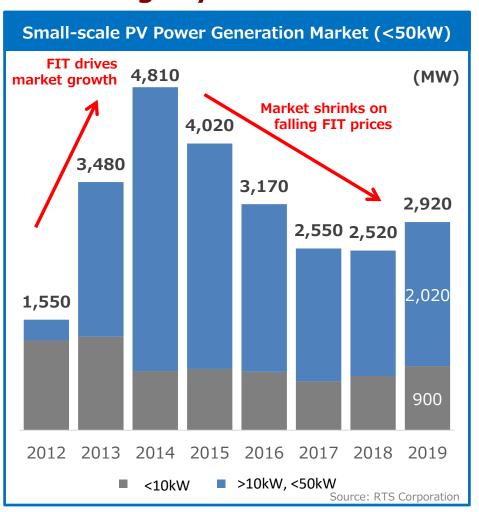
Our Vision of the Energy Solution Business

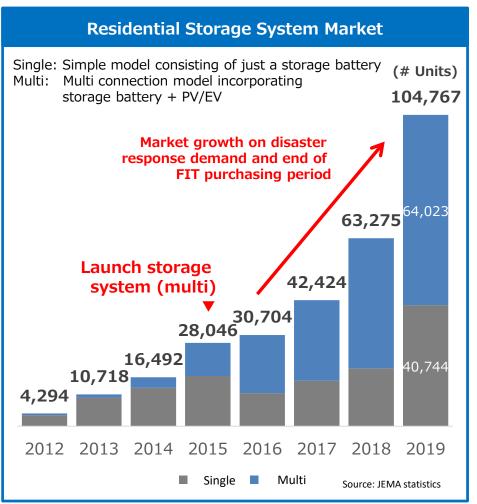
Promote area CO₂ reduction, energy self-sufficiency by combining system development skill with energy conversion/control technology



Market Trends in the Component Business

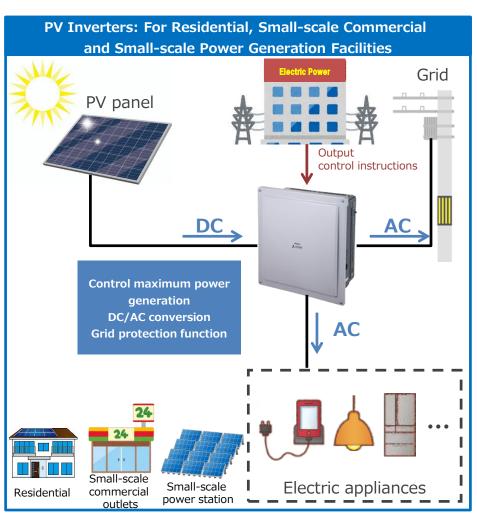
FIT start in 2012 drove surge in small-scale PV power market. Enter storage system market on disaster response demand, end of FIT

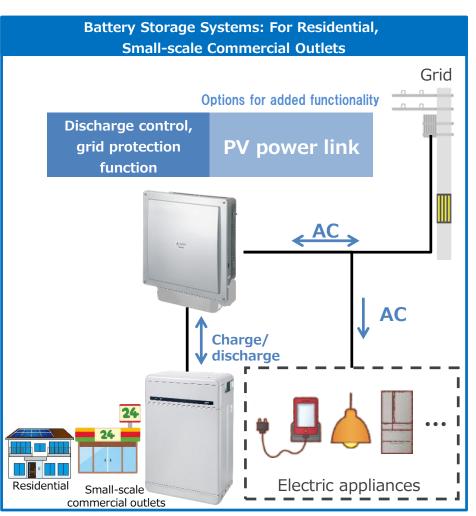




Component Business Within Energy Solutions Business

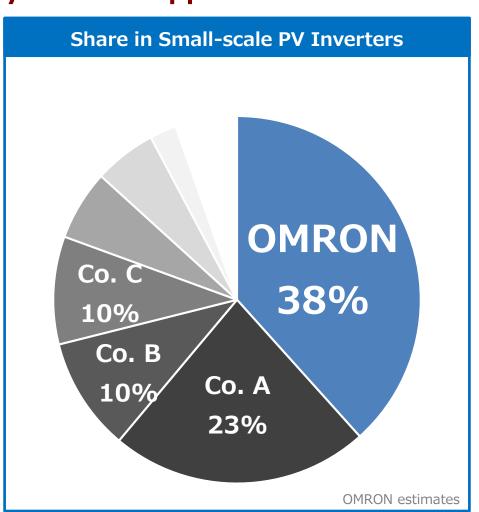
Strengths are inverters that convert PV panels' DC to AC, and storage systems that enable power use at desired time, emergency backup

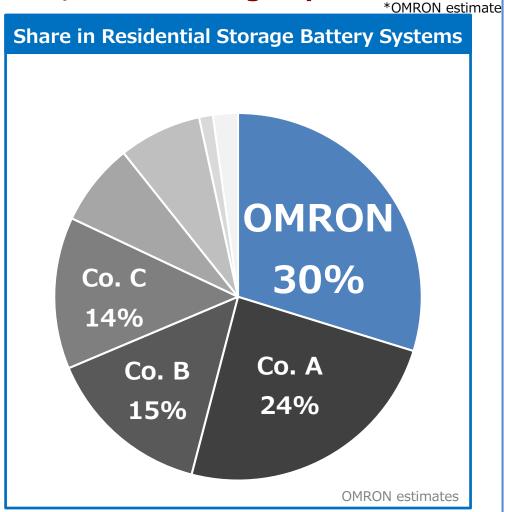




Track Record in Component Business

No.1*share in small-scale PV inverters, residential storage battery systems. Shipped >1.8mn PV inverters, > 70k storage systems





Engineering Business within Energy Solutions Business

Provide total solutions for enterprise energy issues (energy savings, CO₂ emission cuts, BCP): Diagnostics, design, installation and O&M

Energy Assessment

Analyze current situation, propose improvement plan



O&M*Service



Mfg. Plants
Logistics Facilities
Hospitals
Nursing Homes
Retail Facilities
Retail Stores
Office Buildings
Schools
Gas Stations
Financial Institutions

Power Generation (Renewables) Engineering

Design captive-power generation facilities



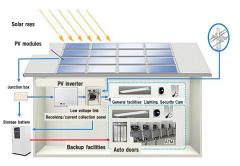


PV power generation system

Regular/emergency use power generator Co-generation system Fuel cell system

Energy Storage Engineering

Design, install storage system



Energy Conservation Engineering

Enhance facilities, design & implement renovation







*O&M: Operation & Maintenance

Engineering Project: Contributing to Car Port PV Facilities

Car port PV facilities installed at Murata Manufacturing's Okayama Plant are one of Japan's largest. OMRON supports corporates in their efforts to increase use of renewables to reduce CO₂ emissions



PV power generation system installed in parking lot for 1,200 vehicles

Double-sided panels enable use of reflected light to generate power



PV power generation systems installed on car port roofs

For more details, see OMRON website: EDGE&LINK

Engineering Project: Contributing to BCP System

Install BCP system for Yamaichi Electronics, combining PV power generation system and large-scale storage batteries. Contribute to securing emergency power source and lowering electric power costs



PV power generation system installed for Yamaichi Electronics



Large-scale storage battery used to secure emergency power source.

Battery charged with solar power generated in excess of requirements

Engineering Project: Contributing to Local Government

SSB proactively helping municipalities to address issues. Contribute to local government efforts to reduce CO₂ emissions and use renewables to help make communities safe, secure and comfortable





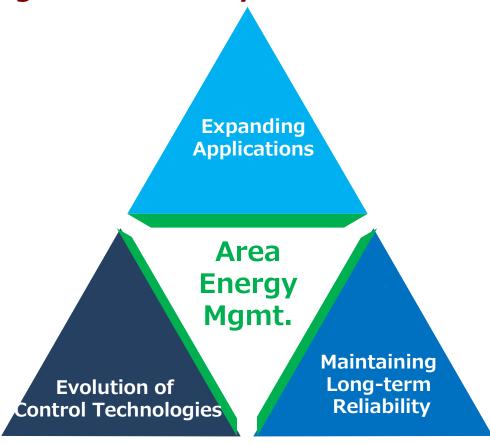
Based on comprehensive agreement with Miyazu City, converted abandoned farm land to an asset by installing PV power systems. Contribute to making the community safe, secure and comfortable, and decarbonization

Installation of PV power system in Maizuru City, based on comprehensive agreement with the city. Adoption of PV power system for the Cultural Park Gymnasium contributes to regional disaster prevention and damage reduction as well as decarbonization.

To Achieve Area Energy Management

Following 3 elements are key to achieving area energy management:

- 1) Expanding applications, 2) Enhancing control technologies,
- 3) Maintaining long-term reliability



Expanding Applications: Maximizing Integration Impact

Expand into business fields covered by SSB, in addition to existing focus on residential and small-scale commercial outlets



Energy Solutions

Manufacturing



Transport Solutions

Railways



Life Svc. Solutions

Distribution



Community Solutions

Local Government



Residential/Small-scale Commercial



Roads/Mobility



Services



Multi-purpose Facilities



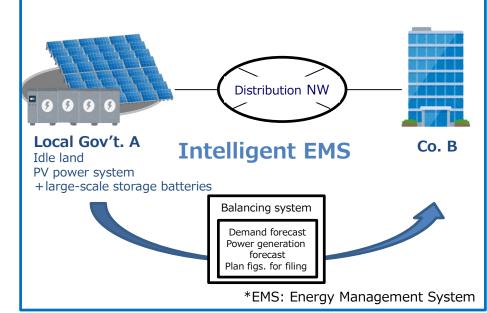
Evolution of Control Technologies: Energy Control Technologies

Pairing storage control with PV facilities enables stable supply. Optimizing energy control cuts energy cost and fulfils BCP needs



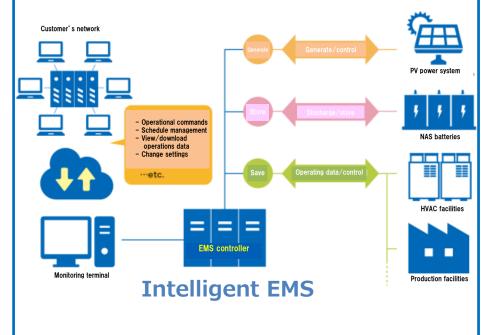
Enterprise-use Self-consignment System

Supply renewable energy using **self-consignment system** as tool for decarbonization. **Storage battery control using EMS** ensures stable renewable energy supply, minimizes impact on distribution networks and eliminates risk of imbalances



BCP System Using Storage Batteries

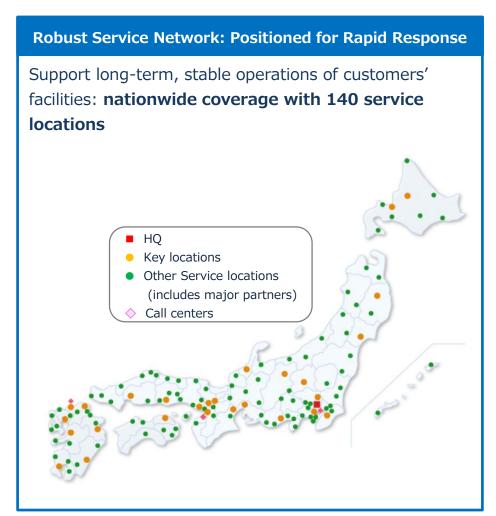
Deliver good balance on energy costs by not only securing high load power source for emergencies but leveraging storage batteries to enable peak shift and demand control

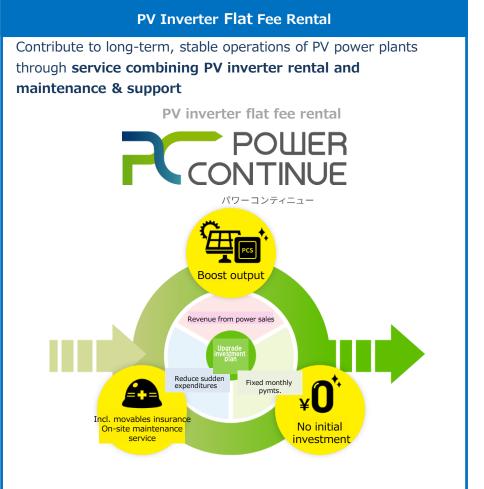


Maintaining Long-term Reliability: Maximizing Renewables Output

Robust service network indispensable for stable operation. New service combines PV inverter rental and maintenance service

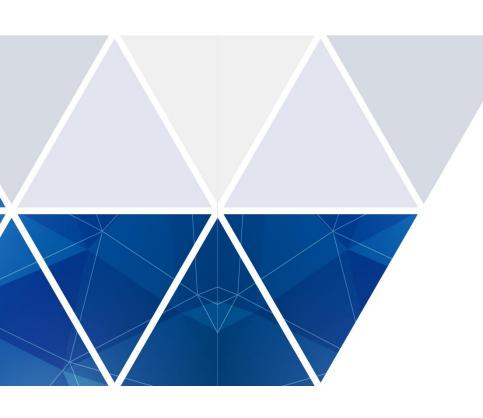






To realize area energy management





Climate Change Initiatives

Evolution of OMRON's Climate Change Initiatives

Stepped up climate change initiatives in VG2.0. Currently developing Long-term Vision for 2030 in which climate change will be positioned as one of our top priorities; will further step up initiatives



Feb 2019

July 2018

TCFD Supporter

2019

- OMRON Carbon Zero
- ·SBTi Declaration

2020



To Next Long-term **Vision**

CDP

Climate Change 'A-' 2nd consecutive year Water Security 'A-' 1st time

2021

EcoVadis* Platinum Rating

·Mid-term Plan VG2.0 **Set Sustainability Goals**

2017

2018 FY2018

Minister's Award for Global **Warming Prevention Activity** "Implementation of Countermeasures

and Dissemination Category"平成30年度





FY2016

CDP Climate Change: B

2011

- Long-term Vision VG2020
- Environmental Vision Green OMRON 2020

*EcoVadis: Independent provider of sustainability assessments/monitoring for supply chains, including climate change. Provide scorecard assessments to more than 65,000 companies and organizations, across 200 industries and 160 countries

Energy Solutions

Climate Change

Climate Change Initiatives: Disclosure Using TCFD Framework

Present our initiatives using TCFD's recommended disclosure framework

1 Governance

Position climate change issues
as central to governance and
management framework for
sustainability

2 Strategy

Set out currently identified risks and opportunities for the overall group's businesses

Climate Change

Initiatives

4 Metrics and Targets

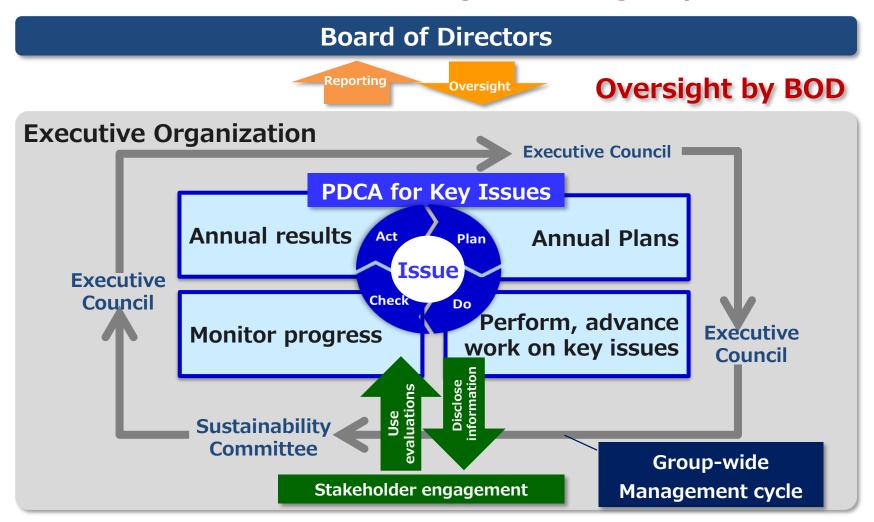
Broadly gather information and analyze risk factors from climate-related regulations and potential impact on the business

3 Risk Management

Set targets for achieving Carbon Zero

1. Governance

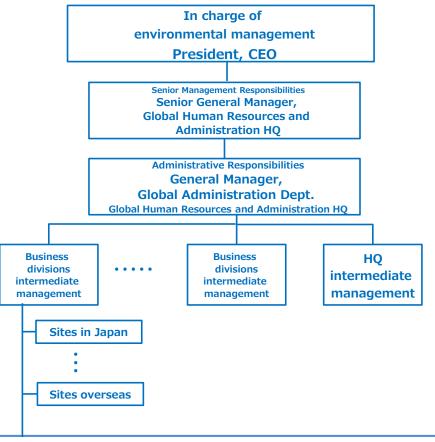
Climate change initiatives are designated key sustainability issues under Mid-term Plan VG 2.0, with monitoring and oversight by the board



1. Governance: Environmental Management Structure

HQ department responsible for environmental management works with each business company to set targets, formulate plans and support execution

Environment Management Structure



2. Strategy: Energy Business Scenario Analysis

Identify risks and opportunities in the Energy business to 2030 through scenario analysis, using the steps below. This will feed into the next Long-term Vision

Ħ Ü Framework Scope **Definition** · Region ·Business Value chain ·Scenario **Initiatives** OMRON Time frame ·Impact

assess-

ment

Step1 **Identify** material risks/opportunities

Market / **Technology** Assessment Change Policy / **Physical** Legal Risk

Step2

Define scenarios

Multiple scenarios that encompass related transition risk/physical risk

Step3

Assess business impact

Business impacts:

- Adoption costs
- ·Business costs
- Profitability
- ·Supply chain
- ·Business suspension
- Timing

Step4

Define responses

Responses:

- ·Business transformation
- · Portfolio transformation
- ·Investment in skills/ technology

Consider risks / opportunities for all Social Solutions



Narrow focus to **Energy Solutions**

Business

Consider social changes, business risks and opportunities, image of future business development for the Energy business under 2°C/4°C scenarios

- Define specific material risks and opportunities
- Analyze qualitative and quantitative impact on each business
- Identify necessary actions to improve resilience versus identified risks and opportunities
- Reflect in the 2030 Long-term Vision

2. Strategy: Energy Business Scenario Analysis

Advance CO₂ emission reduction and energy self-sufficiency by combining system development skill with energy conversion and control technologies, factoring in scenario analysis results

Identified Risks and Opportunities

•Intensification of competitive environment as a result of new entrants from other industries/overseas players, changing customer needs

•Increased business costs (mandatory repairability) as a result of responding to regulations related to transition to a circular economy such as climate change (carbon taxes, etc.), or an acceleration of climate change measures, etc.

•Supply chain disruption as a result of the intensification of natural disasters (floods, torrential rains, water shortages), etc.

OMRON's responses

- Development of products/services that lead to reduction of GHG emissions
- ·Review of product plans/designs
- •Advancing plans to reduce energy consumption and use of renewable energy, etc.
- •BCP initiatives (diversification of suppliers, production bases, etc.)
- $\boldsymbol{\cdot}$ Adoption of in-house power generation from renewable sources, etc.

•Expansion of markets for renewable energy, energy storage and management as a result of rapid advances in decarbonization of energy supply and consumption (Accelerating adoption of renewable energy and storage solutions as a part of diversification of power sources, which is raising demand for decarbonization and disaster prevention solutions from corporates and local governments. Home energy self-sufficiency rising on captive-generation, storage and consumption)

•Increasing need for sophisticated energy management to solve the challenge of managing power supply-demand balance resulting from the rising adoption of renewables, etc.



Opportunities

- •Market for home use storage batteries: Approx. 4x
- •Non-residential storage battery market: Approx. 6-7x

Market for power aggregation: Approx. 90x

- •Further expansion of sales of PV inverters targeted at rising demand from corporates, households and local governments for renewable energy and energy storage solutions
- •Development of energy management business leveraging solar/storage solutions
- •Consideration of new businesses in anticipation of advances in the circular economy, etc.

- •Expected time horizon: FY2030
- •Scenario used: IPCC/RCP8.5: Global average temperatures rise 4℃ or more from pre-industrial revolution levels

IEA/SDS (partial use of IPCC/SR1.5): Rise in average global temperatures limited to less than 2 °C as agreed under the Paris Accord (in part less than 1.5°C)

Market scale: Estimates based on Fuji Keizai Group publication

2. Strategy: IAB Opportunities: Reducing Plastic Waste

Developed temperature control program that leverages AI to achieve changes in packaging materials for food processing customers. Contribute to solving issue of marine plastic waste

Solve issue of temperature variability on adhesion process for a variety of packaging materials

Contribute to reduction of packaging waste equal to 930kt of plastic



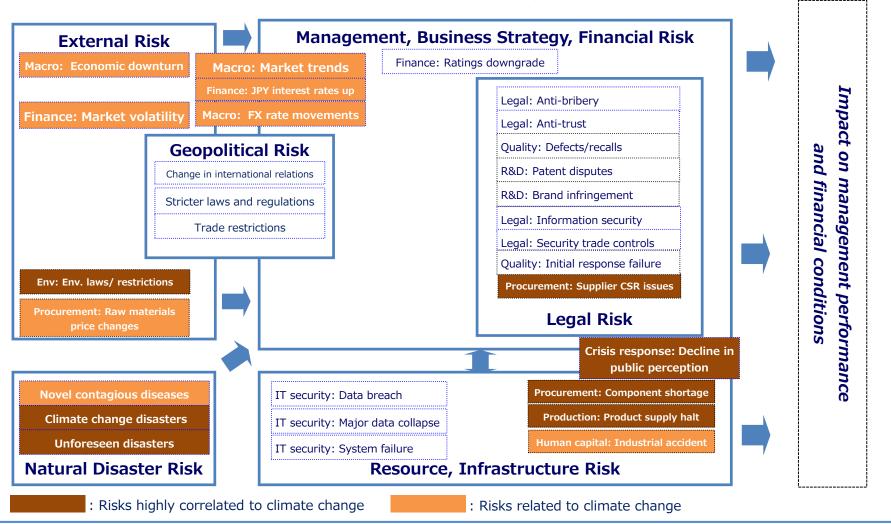




*OMRON Estimates

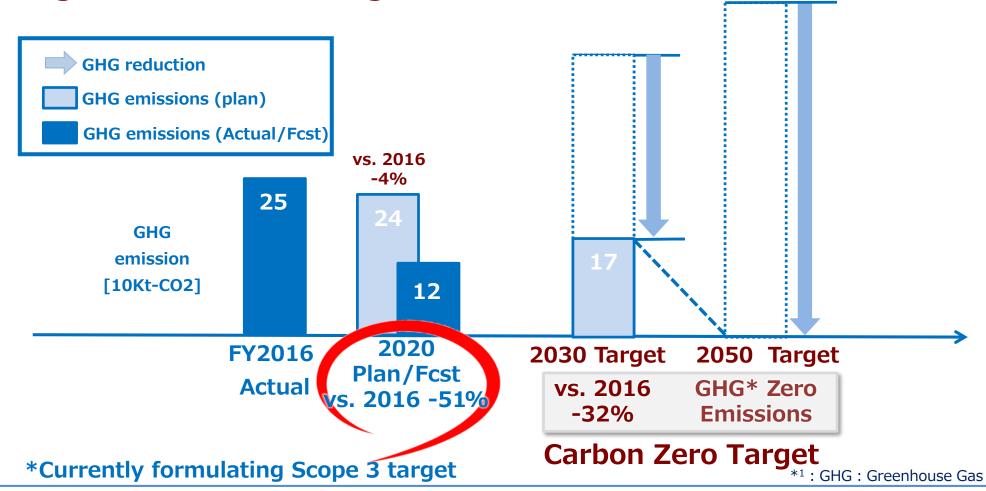
3. Risk Management

Initiate BCP response based on analysis of climate change-related risks, factoring in impacts based on integrated risk management



4. Metrics and Targets: OMRON Carbon Zero

Expect to exceed FY2020 target (-4%) by 51%, owing to ongoing initiatives. New targets for 2021 and beyond to be set in alignment with next Long-term Vision



4. Metrics and Targets: Environmental Initiatives in Our Businesses

Implemented construction design and energy-saving activities. New building at Yasu certified ZEB Ready*2 in 2020*1, reflecting capacity to reduce energy consumption by more than 50%

2003 Keihanna Innovation Center



- Solar power generation
- Use of natural light

Leading-edge environmental features at the time

2011 OMRON Healthcare HQ



- Solar power generation
- Green roof

Secure highest CASBEE*3 ranking 'S'

2012 Ayabe Plant



- Using visualization in energy conservation activities
- Conduct plant tours focused on energy-saving features

Received Minister's Energy Conservation Grand Prize from METI in FY2012

2020 Yasu (New Office Building)



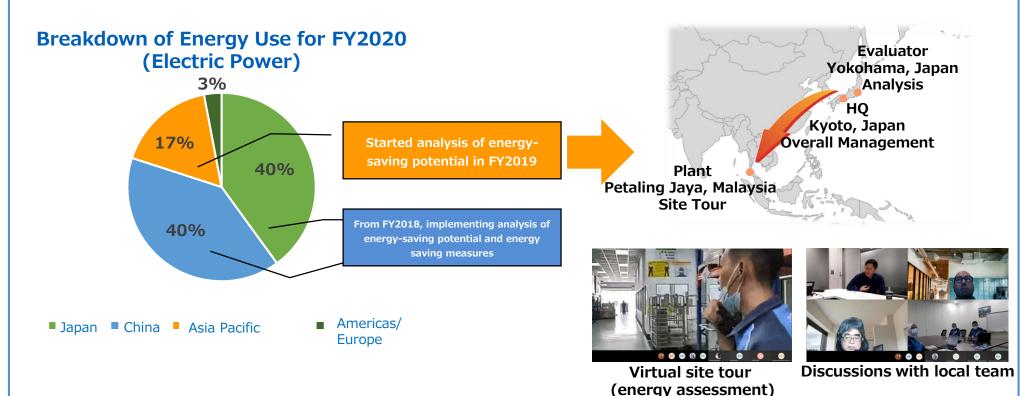
- Solar power generation
- Energy-saving initiatives such as HVAC control using OMRON products

Secure ZEB Ready rating under BELS Certification*4

- *1 Year in which operations commenced. Building completed in 2019
- *2 ZEB (Net Zero Energy Building) is an international initiative promoted by the Ministries of the Environment and Economics, Trade and Industry(METI) aimed at realizing zero energy buildings where primary energy consumption is reduced to zero through a combination of energy conservation and power generation. The ZEB Ready rating is awarded to buildings that reduce energy consumption through energy conservation by more than 50%.
- *3 Comprehensive Assessment System for Building Environment Efficiency: Methodology for assessing and promoting environmental efficiency of buildings
- *4 Building Housing Energy efficiency Labeling System

4. Metrics and Targets: COVID-19 Remote Review of Overseas Plants

Start analysis of energy conservation potential *1 in Asia Pacific in FY2019. Due to COVID-19, FY2020 energy conservation review for Malaysia conducted remotely from Japan



^{*1} Analysis of energy-saving potential: Creation of a specific plan with estimates of impacts and costs, based on an understanding of the local situation and a grasp of energy loss risks and opportunities to improve energy efficiency

Material Environmental Sustainability Issues and Targets

Expect to achieve two VG2.0 initial sustainability targets, as well as targets set in alignment with the Environmental Vision

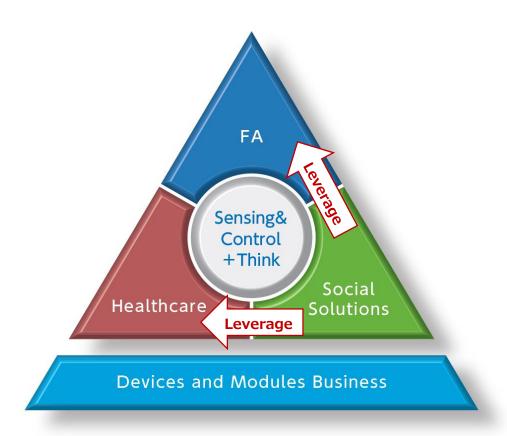
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Environmenta
Vision Targeta

Target Item	FY2020 Target	FY2019 Result	Evaluation
1. Reduce GHG emissions	Environmental contribution > Production site CO2 emissions	Environmental contribution 971kt-CO2 > Production plant CO2 emissions: 135kt-CO2	In line with plan
	•2020 -4% vs. 2016 *2030 -32% vs 2016 *2050 Zero emissions (Scope 1&2. Scope 3 under consideration)	Total GHG emissions reduced by 34% (vs. FY2016) (Scope 1&2)	In line with plan
2. Reduce / appropriately manage hazardous substances	Mercury reduction through adoption of digital thermometers and BPMs 69 tons/year	57 tons/year (Thermometers: 12.27m units, professional BPMs: 880K units)	In line with plan
	Stop use of CFCs in 2018Stop use of HCFCsStop use of mercury(fluorescent lights)	Complete full elimination 1 year early	In line with plan
3. Reduce waste	Achieve zero emissions at all global	21 locations	In line
	production sites	(Progress rate 95%)	with plan
4. Prevent air, water & soil contamination	Undertake environmental legal assessments and complete corrective measures for all production sites globally	24 locations (Progress rate 100%)	In line with plan
5. Effective use of water resources	Reduce volume of water used at all production sites globally by 6% vs. FY2015	Reduced by 13.2%	In line with plan
6. Promote environmental mgmt.	Acquire and maintain ISO14001 certification for all production sites globally	25 locations (Progress rate 100%)	In line with plan

Toward 2030: Climate Change Initiatives

As we seek to expand opportunities under the Long-term Vision to 2030, climate change is one of our highest priorities. Consideration of risks/opportunities for FA and HCB to be reflected in strategy



Looking to the Future

We will achieve sustainable corporate value growth by continuing to generate economic value, environmental value and social value, underpinned by our focus on solving social issues through our business

OMRON