

ENECHANGE Ltd.

December 2020

Tokyo Stock Exchange Mothers

Securities Code: 4169



Handling of these materials

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Factors affecting actual results include, but are not limited to, domestic and international economic conditions and trends in industries connected to the Company.

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A world moving towards decarbonization through clean energy technology

The world is rapidly moving towards decarbonization. In Japan, Prime Minister Suga announced that Japan would aim to become carbon-neutral by 2050 ^{*1}, and with the election of President Biden, the United States is also expected to rejoin the Paris Agreement. The United Kingdom and the nations of Europe are also in agreement with creating a carbon-free society by 2050, so the energy industry around the world is faced with major changes.

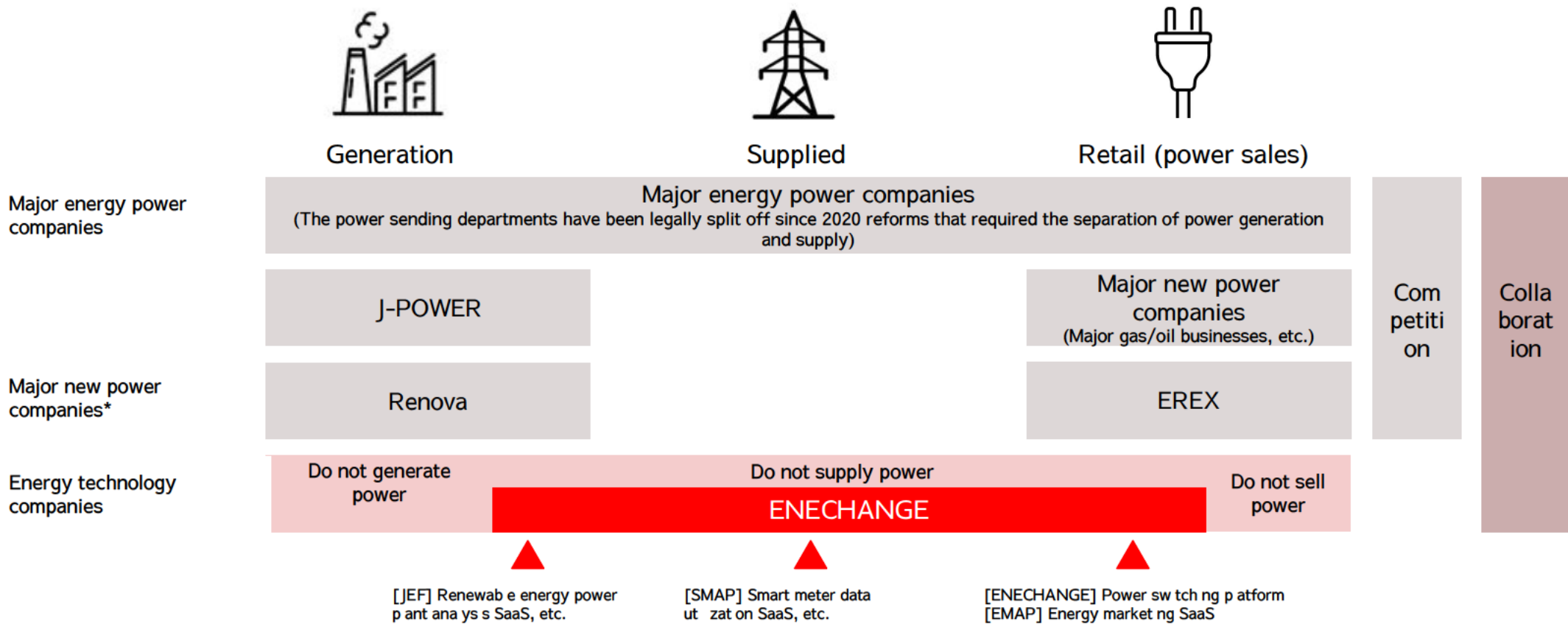


*1 Source: General Policy Speech by Suga on October 26, 2020.

*2 Image credits: Joe Biden (amana), Prime Minister Suga (ZUMA Press/amana), Prime Minister Boris Johnson (c Sp USA/amana). These images are used in accordance with copyright law and may not be copied or reused without permission.

An "energy-tech" company to bring about a carbon-free society

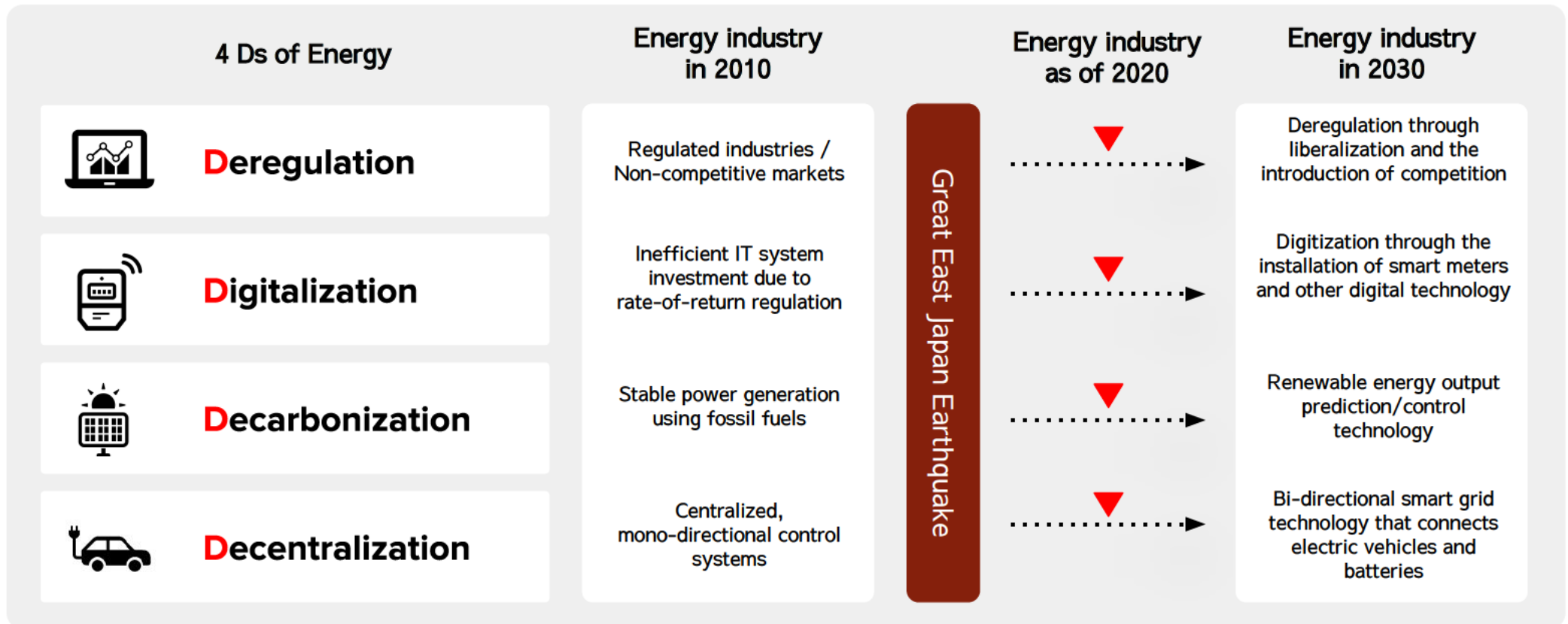
Becoming a carbon-free society cannot be achieved by just building renewable energy plants. To allow unstable renewable energy to be accepted, we must have clean energy technology innovations at both the power suppliers and the retailers. ENECHANGE is an "energy-tech" company that promotes innovation in the energy industry from a neutral perspective, as we neither generate nor sell energy.



*1. Selected companies with the highest market capitalization from among companies newly listed on the Tokyo Stock Exchange in the 2010s.

The "4 Ds of Energy" innovation

Japan's energy industry has been forced to undergo structural reforms due to changes in energy policies following the Great East Japan Earthquake. Innovation in four fields is covered by the "4 Ds of energy": (1) deregulation through liberalization and the introduction of the principle of competition; (2) digitization through the installation of smart meters; (3) decarbonization through technology that predicts and controls intermittent renewable energy output; and (4) decentralization through the use of smart grid technology that connects electric vehicles and batteries.



1. Company Outline
 2. Financial Highlights
 3. Business Outline
 4. Future Growth Potential
- Appendix

Company Outline



CHANGING ENERGY FOR A BETTER WORLD

ENECHANGE is about **CHANGING ENERGY**

Our company name incorporates our vision of an energy revolution.

Company Outline

Company name	ENECHANGE Ltd.
Address	3F, Nihon Building, 2-6-2 Otemachi, Chiyoda-ku, Tokyo, Japan
Founded	April 2015
Businesses	Energy Platform Energy Data
Representatives	Yohei Kiguchi, Representative Director and CEO Ippei Arita, Representative Director and COO
Employees	90 (as of October 31, 2020; consolidated basis) *Approx. 50% are engineers* ¹
Headquarters	Tokyo, Japan
Subsidiary	SMAP Energy Limited (UK)

Head Office: Tokyo



Group business: London



*1. Calculated from the number of employees on a consolidated basis as of the end of October 2020.

Executive Summary

Market opportunities

1 **The system reform** happening in **the world's largest***¹ **liberalized energy market**

With a liberalized energy market of 22 trillion yen*², a TAM of 340 billion yen*³, and a target market of 80 billion yen*⁴, a range of system reforms, including enhanced data accessibility and the debut of the flexibility and capacity markets, are expected.

Business fields

2 **A category leader in energy tech** fields

A track record of generating income from businesses related to the 4 Ds of energy through utilizing the technological abilities fostered at the University of Cambridge since our founding in 2015.

Competitiveness

3 **A management team** thoroughly versed in the **global** energy industry

Our CEO is a serial entrepreneur who founded our company while pursuing a Ph.D. in engineering at the University of Cambridge. Our professional management team and our outside directors bring a wealth of management experience from the energy industry.

Business Model

4 **High growth rate** based around **recurring earnings**

Sales CAGR of 55%*⁶, ARR CAGR of 91%*⁶, average monthly churn rate of about 1%*⁷, and a customer base centered on major companies in the energy industry

*1. "The World Factbook," Central Intelligence Agency (as of February 2020) Japan's electricity demand ranks fifth after China, the United States, India, and Russia. On a per capita basis, the United States are liberalized, and the other countries are not liberalized, which means that Japan's electricity market is the largest liberalized market in the world.

*2. Total for both electricity and gas (city gas, LPG). Calculated based on the sales amount for January–December 2019 in "Electricity Trading Report Results" and "Gas Trading Report Results" by the Electricity and Gas Market Surveillance Commission. LPG sales calculated based on surveys by Japan LP Gas Association for the period January–December 2019.

*3. Based on the same basis as *2, calculated by multiplying the advertising expenses ratio to sales of 0.5% per Nikkei Advertising Research Institute's "Advertising Expenses for Leading Companies, 2019 Edition" (published October 2019) and the 1.05% (FY2019) of the IT budget among sales of the energy industry (social infrastructure) from the Japan Users Association of Information Systems "Corporate IT Trends Survey 2020 (FY19 Survey) (May 2020).

*4. The market scale at which our Group's services or products can currently approach TAM. See the Appendix for details of the calculation method.

*5. The university at which Yohei Kiguchi, our Representative Director and CEO, researched energy data. He is currently on leave to concentrate on running the business.

*6. Sales are the average annual growth rate from FY2017 to FY2020 (forecast), and ARR is the average annual growth rate from FY2017 to FY2019.

*7. The number of churns is calculated by the number of household/company users (the number of contracts in the previous month + the number of supply starts this month - the number of contracts this month). The churn rate is calculated by the ratio of the number of churns to the number of contracts which incur a renewal fee for household/company users (monthly average from January 2018 to June 2020).

CEO Yohei Kiguchi and COO Ippei Arita both have engineering experience, have both spent time overseas, and have contributed to the Group since its founding. With two representative directors, we can provide flexible business management both in Japan and overseas.

**ENECHANGE**

Yohei Kiguchi CEO / Co-Founder

Spurred by the Great East Japan Earthquake, Yohei developed a deeper interest in energy problems and decided to study overseas at Cambridge University in the UK, a nation at the forefront of energy and electric power system innovation. He started a masters and doctoral program in engineering and energy data AI analysis, which overlaps with his own specialist fields of statistics and data analysis (*currently on leave to focus on business affairs).

During his time at Cambridge, he founded Cambridge Energy Data Lab, an industry-academia partnership research organisation focussing on electricity data. Building on his research results, he went on to found our company and SMAP ENERGY LIMITED (a UK subsidiary). He was the first Japanese person selected for the Forbes 30 Under 30 Europe list, and with a proud track record of receiving awards and giving lectures overseas, his strength is his expertise in advanced global trends in the energy field.

As CEO of our company and SMAP ENERGY LIMITED, he is responsible for the entire groups business strategies and overseas partnerships.

Ippei Arita COO / Co-Founder

After conducting research on AI & machine learning for natural language processing and completing a masters program at Waseda University, Ippei has played a key role in developing interest rate market analysis systems and risk management systems at JPMorgan Securities Japan. He has also worked to develop online gaming services at GREE, Inc.

He joined Cambridge Energy Data Lab as chief engineer in 2013, where he played a leading role in facilitating the practical use of research results.

Ippei was a co-founder of ENECHANGE in 2015. His major strength is his technical background and management ability, and he leads ENECHANGE' s domestic business operations.

Our board members and management team have expertise in a range of fields that include the energy industry, engineering, and finance, as well as high-level governance from outside directors who have management experience in listed companies in the energy industry.

☆: Independent director

Board Members



Minoru Takeda ☆
Board Member

- Earned B.S. and M.S. from Keio University, Faculty of Science and Technology, and M.S. from MIT Sloan School of Management.
- Held numerous management positions in Major Oil Companies (ExxonMobil & Royal Ditch Shell), and involved in M&A.
- In Royal Dutch Shell, was GM for Asia Pacific LNG Business and President of Shell Japan.
- During 2015-2018, served as Chairman of Showa Shell Sekiyu.



Aki Mori ☆
Board Member

- From 2015 to 2020, he was CFO at Renova, Inc., TSE1-listed renewable energy operator.
- Before joining Renova, he worked for Goldman Sachs as an investment banker both in Tokyo and New York for a decade.
- He earned a B.A. in Commerce with a focus on Finance and Accounting from Waseda University



Shinichiro Yoshihara, CPA
Board Member

- A graduate of the College of Business Administration, Yokohama National University, and a chartered accountant.
- He worked in auditing at Asahi & Co. (now KPMG AZSA LLC).
- In 2002, he joined EPCO, Ltd. and was appointed a director and manager of the business planning office. The same year, EPCO was listed on JASDAQ. Now, as Representative Director and CFO, he oversaw the company changing its listing from JASDAQ (TSE) to the Second Section, then in 2019, become listed on the First Section of the TSE.

Key Executives / Subsidiary Officers



Takuya Sugimoto, CPA
CFO (Chief Financial Officer)

He joined in July 2019 as CFO. After graduating from the School of Business Administration, Kobe University, he worked at Deloitte, J.P. Morgan, and Rakuten in financing and M&A.



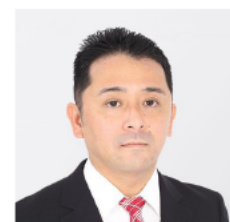
Paul Monroe
SMAP Energy Limited (UK subsidiary) Officer

Has a master's degree from the University of Cambridge. After working at NASA and in a US-based consulting company, he helped found SMAP Energy. He is responsible for rolling out the energy data business in Europe.



Masayuki Tanaka
CTO (Chief Technology Officer)

He joined in May 2015, and appointed CTO in January 2020. After getting master's degrees at the University of Tokyo, he joined ENECHANGE at its founding after working at GREE. Having previously created c3.js (JavaScript data visualization) library, he leads our community of engineers.



Kazumasa Ariga
SMAP Energy Limited (UK subsidiary) Japan Representative

He was appointed the executive officer for the energy data business in July 2020. After graduating from the School of Commerce at Waseda University, he worked on smart meters, electric vehicles, and more at TEPCO and Mitsubishi Electric Corporation.

We provide businesses for (1) consumers and (2) electricity and gas companies.

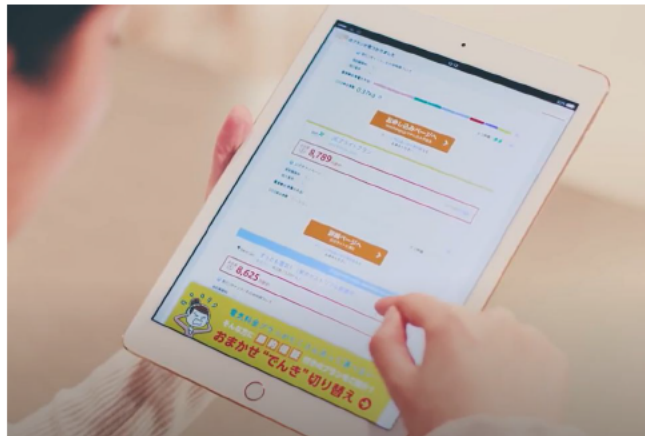
We provide electricity/gas switching services for consumers (Energy Platform business) and cloud-based DX services for electricity/gas companies (Energy Data business).

Energy Platform business
56% of sales*¹

Energy Data business
44% of sales*¹

We run Enechange and Enechange Biz, our electricity/gas switching service for consumers,

We offer a cloud-based DX service for energy companies. At present, we offer three services: EMAP, SMAP, and JEF.



*1. Comparison based on business forecast for FY2020.

Financial Highlights

We aim to maximize our free cash flow in the long term.

Our management policy is to maximize free cash flow over the long term, with an emphasis on sales growth in the medium term. To achieve this, we have defined two KPIs, and carry out growth investments with the aim of maximizing our number of customers and ARPU.*

Long-term
Policy

Maximize free cash flow in the long term

Medium-term
Policy

Continue strong sales growth
(Maximize sources of free cash flow)

No. of customers

ARPU

Energy
Platform business

Cumulative number of electricity/gas switches × Sales per switching contract

Key KPIs

Energy Data business

Number of customers × Sales per customer

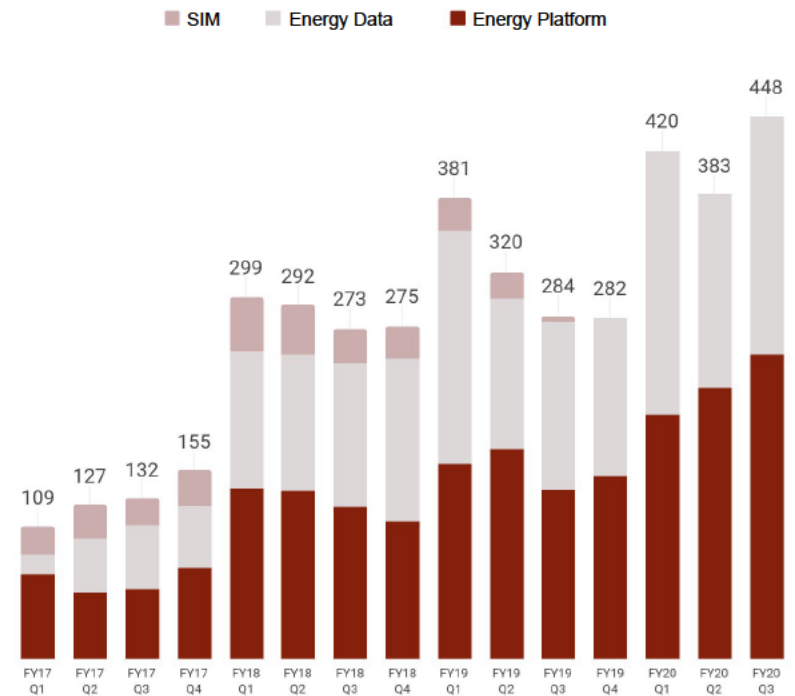
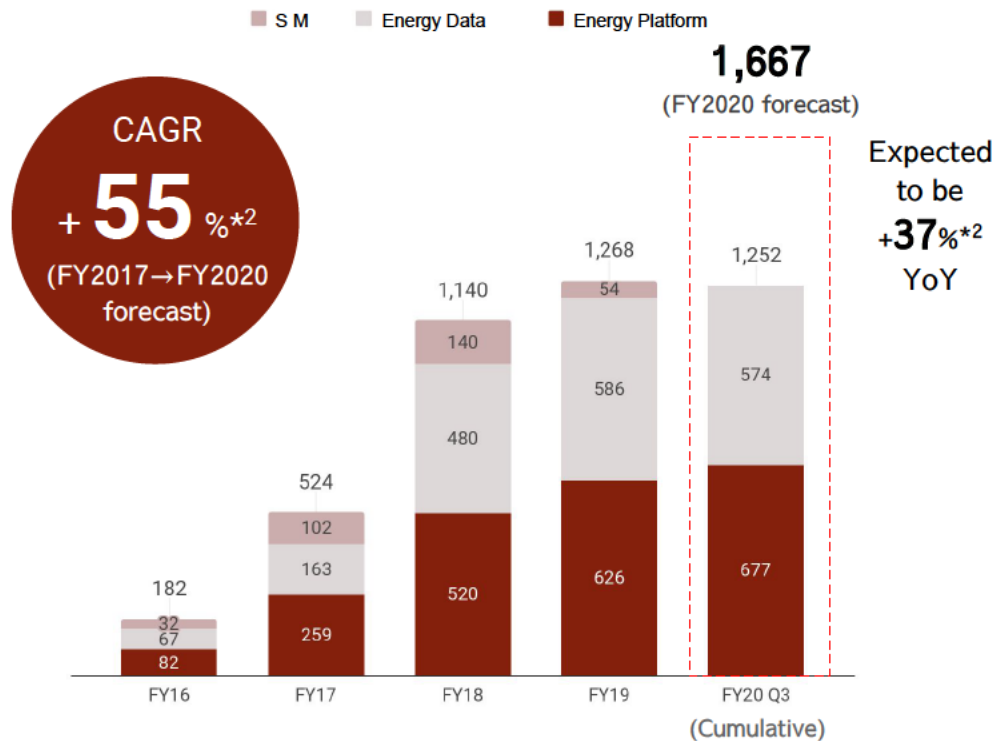
*ARPU: Average Revenue Per User

Sales expected to reach their highest level ever

Sales CAGR is expected to grow +55% (FY2017-FY2020 forecast)*², and in FY2020 is expected to grow at +37%*² year-on-year. Sales tend to be biased from Q1 to Q2 due to the seasonality, as many people move and there is increased power consumption over winter, but as ARR has increased, sales have leveled out.

Annual sales*¹ in JPY MM

Quarterly sales*¹ in JPY MM

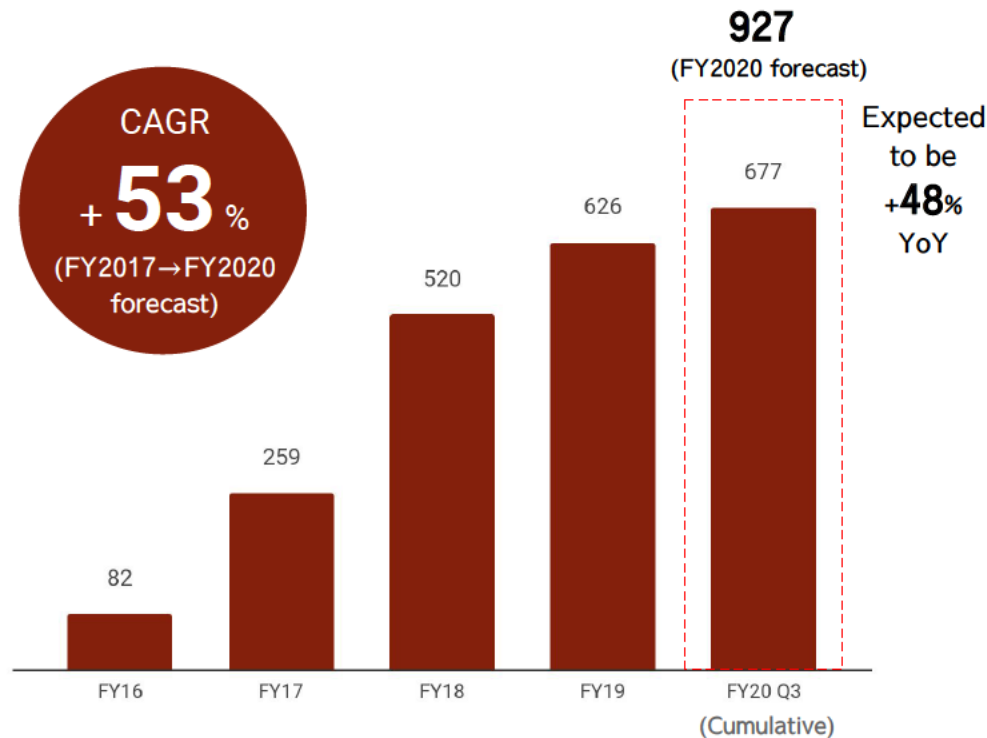


*1. Units shown for FY2017-2020, consolidated figures from FY2018 on. Our SIM business (SIM Change, our cheap SIM/smartphone comparison diagnosis service for home use) was transferred on July 31, 2019.
 *2. Sales growth rate, excluding SIM business

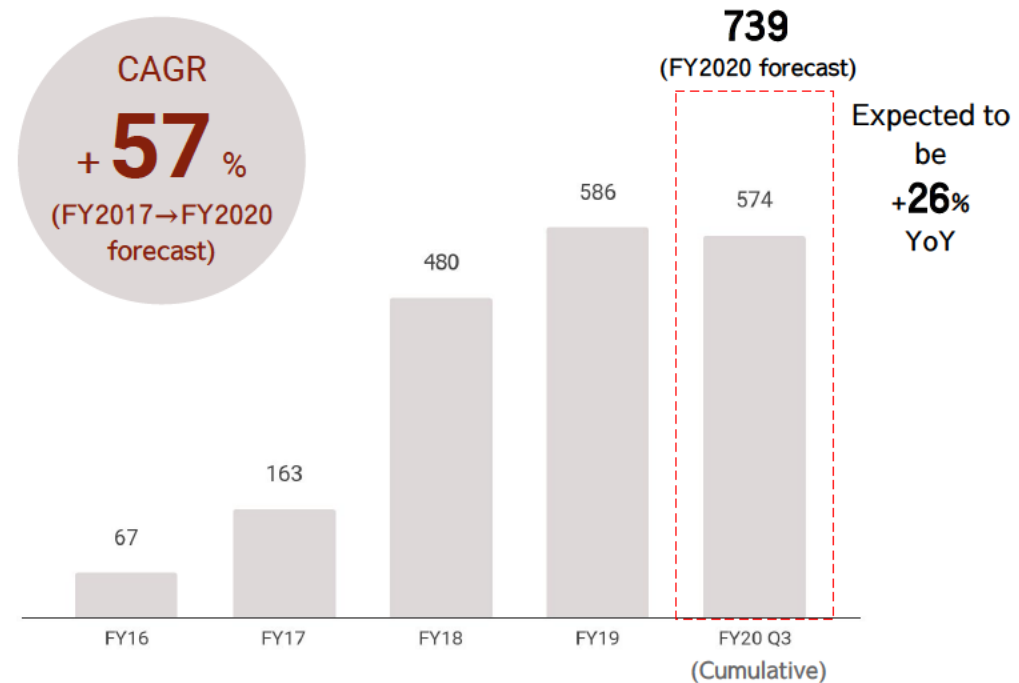
High growth through dual management structure of platformers & data

Both the Energy Platform business and the Energy Data business are growing steadily. EP is achieving high growth of +53%, while ED is achieving +57% growth (CAGR for FY2017-FY2020 forecast).

Energy Platform (EP) business sales*¹ in JPY MM



Energy Data (ED) business sales in JPY MM

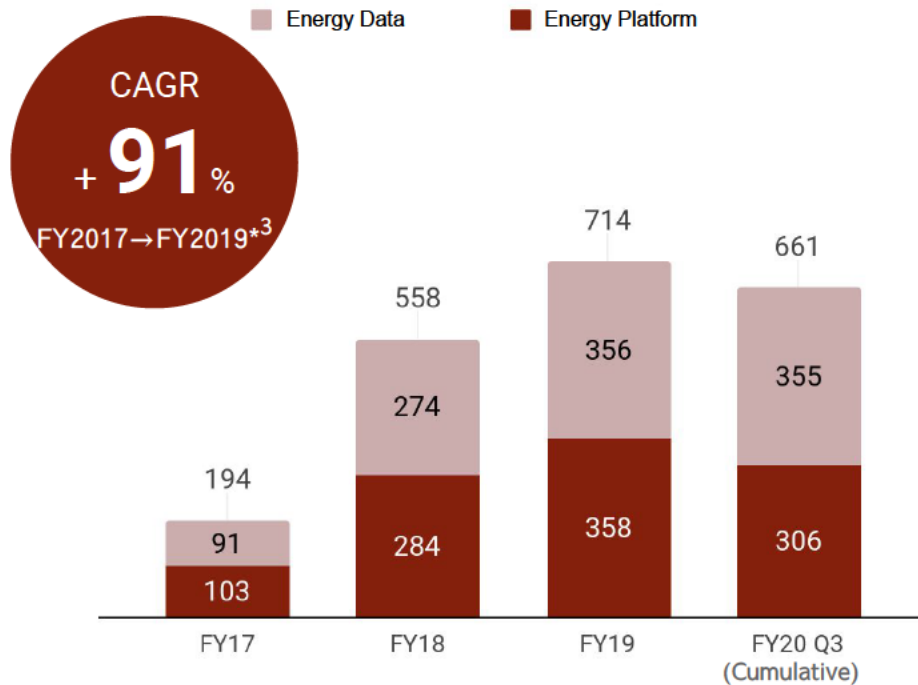


*1. The SIM business that we transferred on July 31, 2019, was included in the Energy Platform business, but has been excluded from this graph.

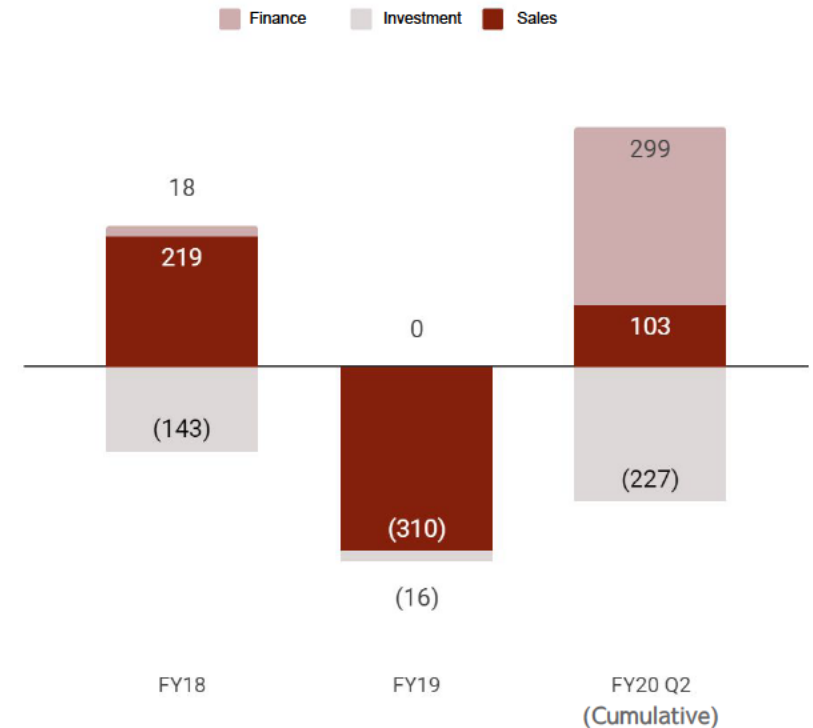
Increased profitability through increased recurring earnings

Our management has an emphasis on increasing the recurring revenue ratio, and the ARR*¹ has reached a high CAGR (FY2017-2019)*² of +91%. We are profitable when it comes to operating cash flow.

Yearly Recurring Earnings in JPY MM



Cash Flow in JPY MM



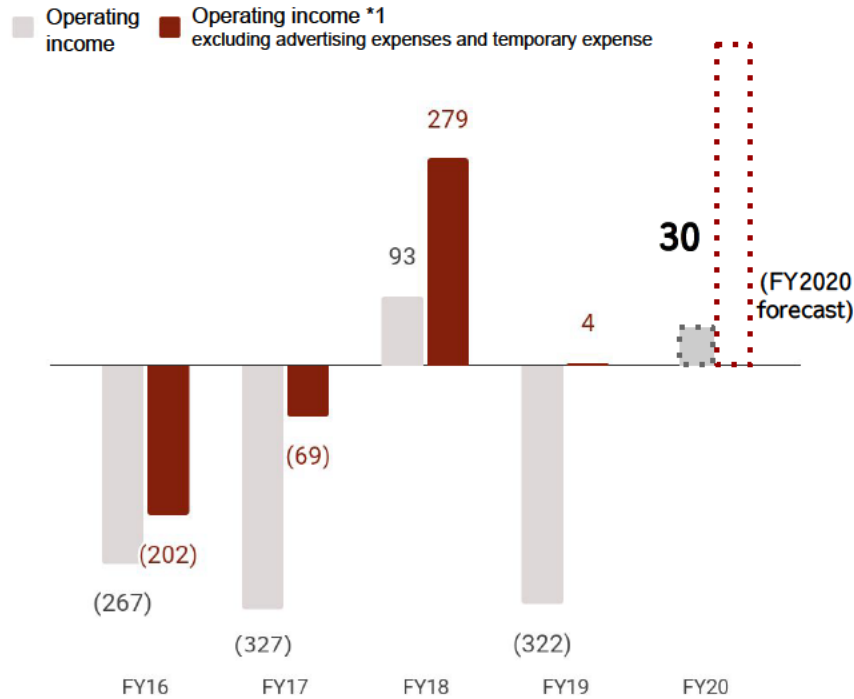
*1. ARR stands for Annual Recurring Revenue, and is recurring revenue that is generated routinely and repeatedly every fiscal term through the business activities of a company, with the sales from recurring revenue during said period being totaled. No ARR total for FY2016.

*2. Growth rate in Recurring earnings excluding the SIM business

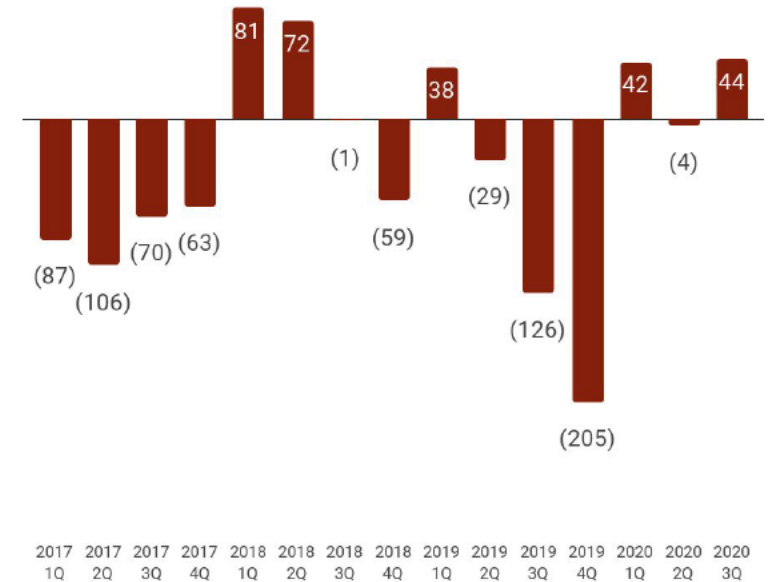
Building a stable, high-profit structure as Recurring earnings increases

As we expect to gain high LTV (lifetime value), we are continuing to actively invest in expenses such as advertising, but FY2020 is still expected to record positive operating income due to steady sales growth. We expect operating income to level off on a quarterly basis as recurring earnings continue to increase.

Annual operating income in JPY MM



Quarterly operating income in JPY MM



2Q of 2020 is in the red due to a drop in electricity consumption after the State of Emergency that was declared to combat the coronavirus

*1. Advertising costs are the sum of advertising costs and fees paid to users and partner companies. Temporary expenses include extra expenses related to employee recruitment and special expenses such as for the lawyers needed when starting a new business.

Business Outline

Energy Platform

"The leading online energy switching platform in Japan"

Japan's largest electricity/gas switching platform

Through operation of a platform that has 2.2 million unique monthly visitors and 52 affiliated electric electricity/gas companies*, we can handle everything from electricity/gas price comparisons to switching processing all at once. As more people are working from home in the pandemic, they are increasingly reviewing their energy costs and expanding the use of online channels, allowing us to continue to grow.



For Households
Electricity/Gas switching platform

Deregulation

×

Decarbonization



For Companies
Electricity/Gas switching platform

Deregulation

×

Decarbonization

* Total number of partner electricity/gas companies as of the end of October 2020 (excluding duplicates).

Support for choosing the optimal plan from many different suppliers

For both Enechange (for households) and Enechange Biz (for companies), users can select their optimal electricity or gas plan from the various price plans offered by affiliated companies and apply to change - all for free. We can cater to a range of cost-reduction needs, with users able to select based on what is important to them, such as tariff structure and CO2 emissions.

Households

Average annual electricity charge savings per household: 9,652 yen*

Companies

Average electricity charge savings: 15%*2

I chose a plan with a **0 yen basic charge** and save 9,652 yen a year for a three-person household.



I don't use much power, but I still wanted it **cheaper**, and saved 3,916 yen a year.



Our Shizuoka Plant has **multiple factories**, and switching all of them saves us 10.8% off our power costs.



Our Shizuoka distillery switched to **low-environmental impact electricity** in accordance with our Corporate Mission, saving us 17.8%.



At our Tokyo office buildings, we save even more after our **second switch**, reducing our costs 7.2% at all three sites.



We chose **environmentally-friendly power** and saved 6,070 yen a year for a two-person household.



*1. As according to the Ministry of Health, Labour and Welfare's "Comprehensive Survey of Living Conditions" (published July 2020) the average number per household was 2.39 persons in FY2019, the annual average amount of electricity saved is based on the results of a simulation that shows two- or three-person households in top place.

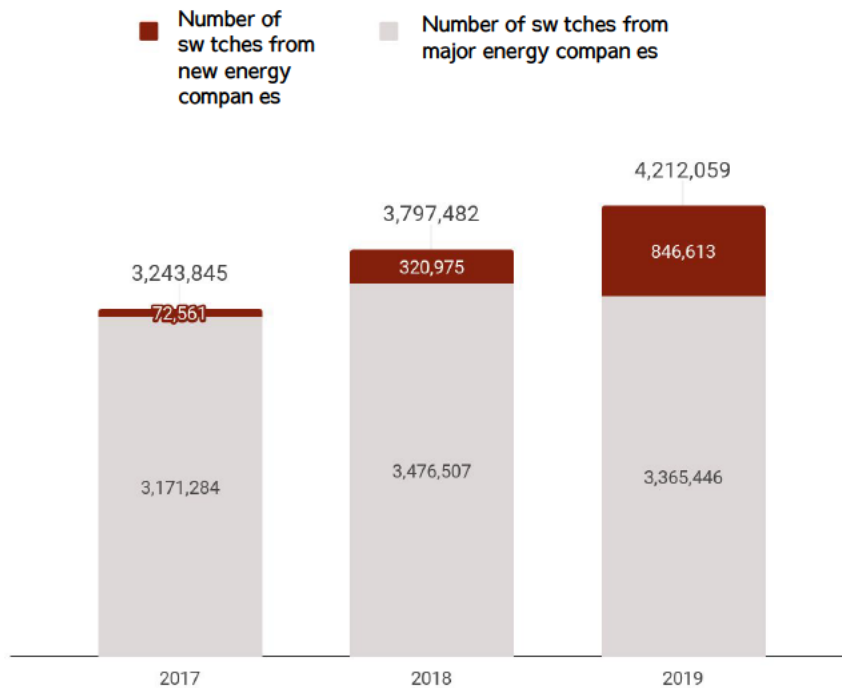
*2. Calculated the average reduction rate of electricity bills from our track record in corporate switches.

Long-term growth through increasing the number of online switching

The number of switches is growing each year. Our share in households is about 1.8%, with many users switching due to channels directly run by the major power companies such as television commercials, shops, door-to-door sales, and so on. As awareness of online switching channels grows among users, we can expect our share to expand further in the future.

Annual change in number of energy contract switches*1

ENECHANGE's share



ENECHANGE's current share:
approx. 1.8%

||
ENECHANGE

Approx.
70,000
switches



Number of energy contract switches annually (Households)
Approx.
4,000,000
switches*2

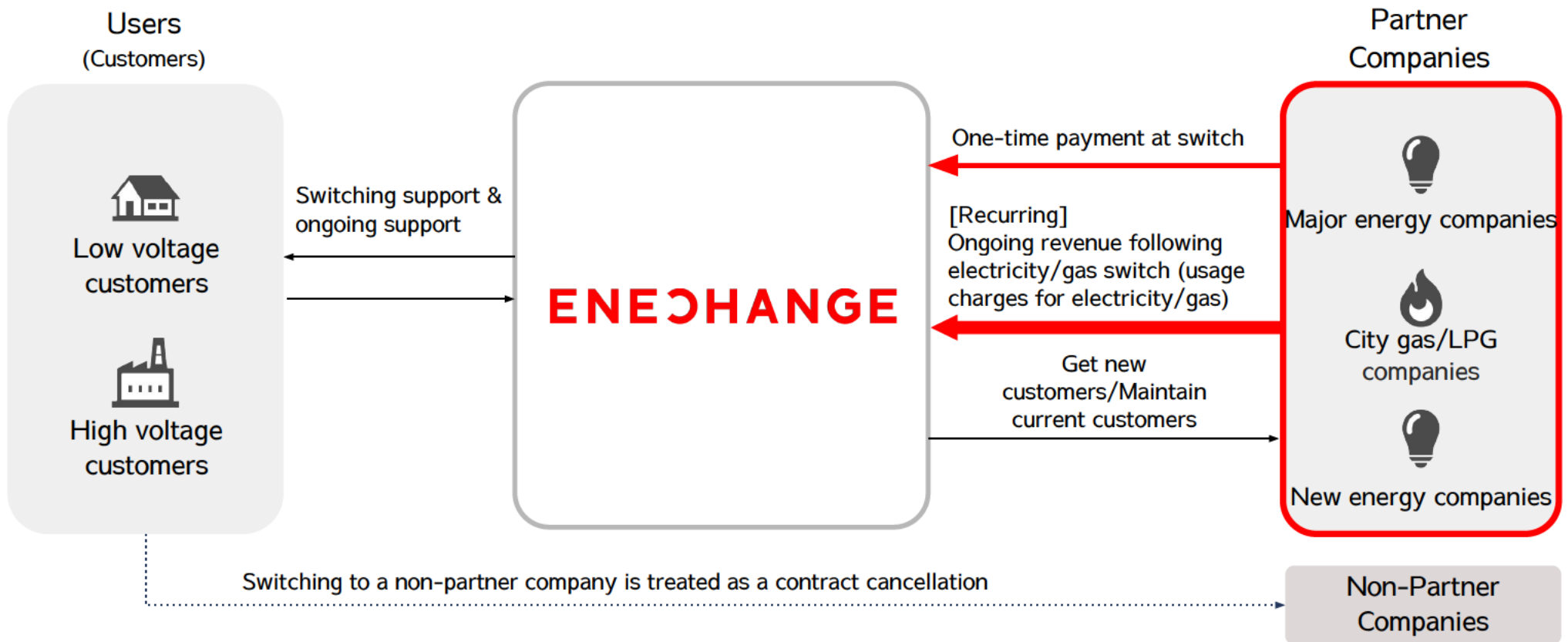
Energy Platform Business
Number of new switches in households
(October 2019 - September 2020)

*1. Number of contract changes from January 2017 to December 2019 according to "Electricity Trading Report Results" by the Electricity and Gas Market Surveillance Commission.

*2. Average of actual data on energy contract switches in *1 for FY2018 and FY2019.

Recurring revenue for electricity/gas usage charges



After switching an electricity or gas contract, we get a one-time fee from the affiliated company as well as recurring revenue linked to electricity/gas bills. We draw on the power of Japan's largest electricity/gas online switching platform to bring in customers and link with numerous companies.



Growth capacity of the Japanese market

In the UK, which has a similar business environment to Japan, the related sales of three of the main companies that provide similar services to our Energy Platform business have a combined total of about 30 billion yen and an operating profit rate of 30%*1. We consider that there is a lot of capacity for growth in Japan in comparison to the UK, and expect to expand our online channels further through strategic marketing policies.

Comparison with UK electricity/gas switching market

	Japan 	UK 
No. of years post-liberalization*2	4	21
Electricity consumption*3	933.6 bn kWh	301.6 bn kWh
Annual switching rate	5.8%*4	19%*5
Comparison site usage rate	No statistics	59%*5
Online platform sales(JPY)	0.9 bn (FY2020 forecast for our EP business)	30 bn*3 (Total combined sales of three major companies)

* Sales of the energy segments in the financial information (or public business for non-listed companies) for GoCo Group (listed on London market), Money Supermarket (listed on London market), and Usutchi (not listed), provisions are calculated operating profit at 40 JPY to the GBP (For fiscal years when segment sales are not disclosed, the ratio for the most recent year is used; if segment profit are not disclosed, the company-wide profit margins are used)

*2 Source: The Federation of Electric Power Companies, Information Related to Overseas Electricity Power: Electricity Businesses in the United Kingdom

*3 A comparison of the 933.6 billion kWh used by Japan and the 301.6 billion kWh used by the UK according to The World Factbook (2016) global electricity consumption statistics

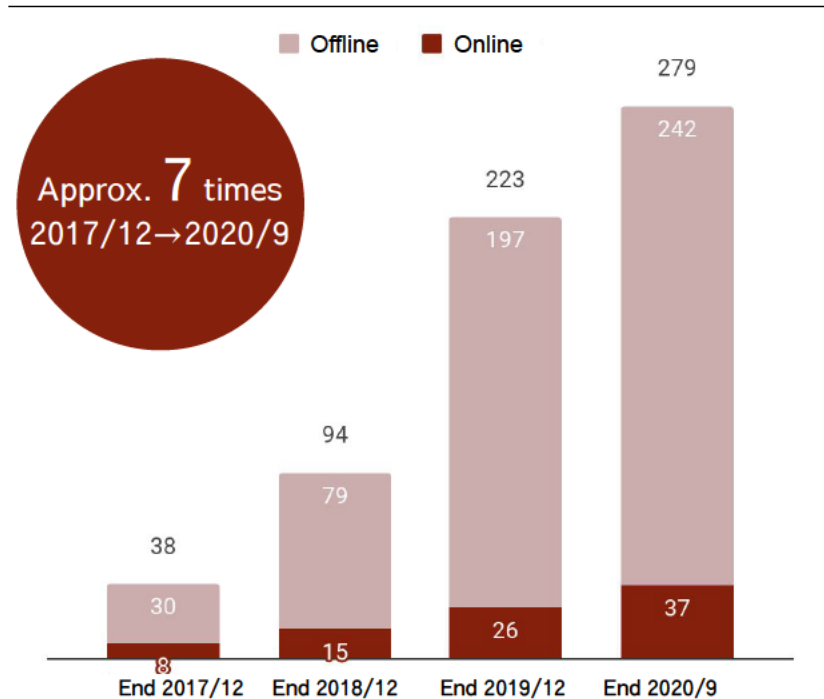
*4 Average of the annual switching rates (number of switches / number of target households) from 2016 to 2019 according to the Organization for Cross-regional Coordination of Transmission Operators, Usage of Switching Support Systems

*5 Calculated from Ofgem, State of the Energy Market 2019

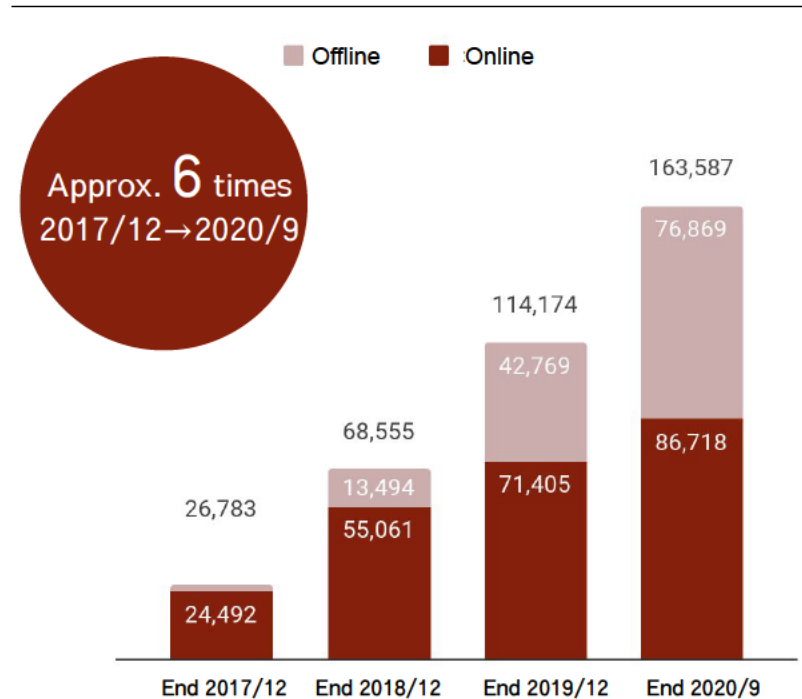
Expansion of partner channels

Drawing on our superior position as Japan's largest electricity/gas switching platform, we have been strengthening our partner channels, such as our online channel with kakaku.com and our offline channel using a collaboration with Mizuho Bank. Recently, we have seen positive trends in gaining electricity switches through our offline channels - for example, with real estate agents and financial institutions - and expect further expansion as we grow the number of partners.

Changes in partner numbers



Cumulative total of switches via partners*



Some of our partners

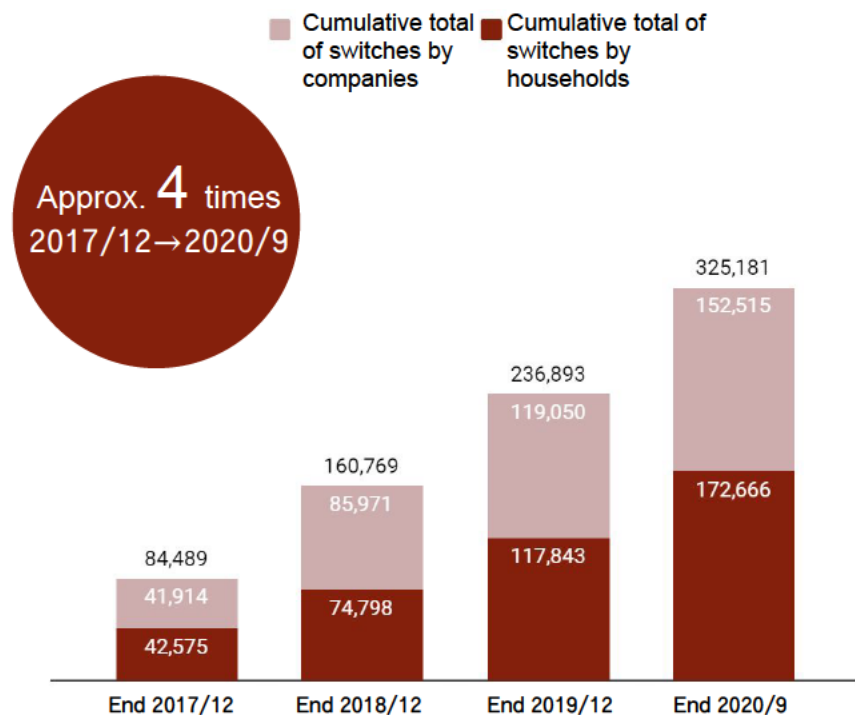


* Ca cu at on for genera household s by corporat ons s based on the rebates from the tota obta ned capac ty us ng the capac ty of a genera household as 4kW.

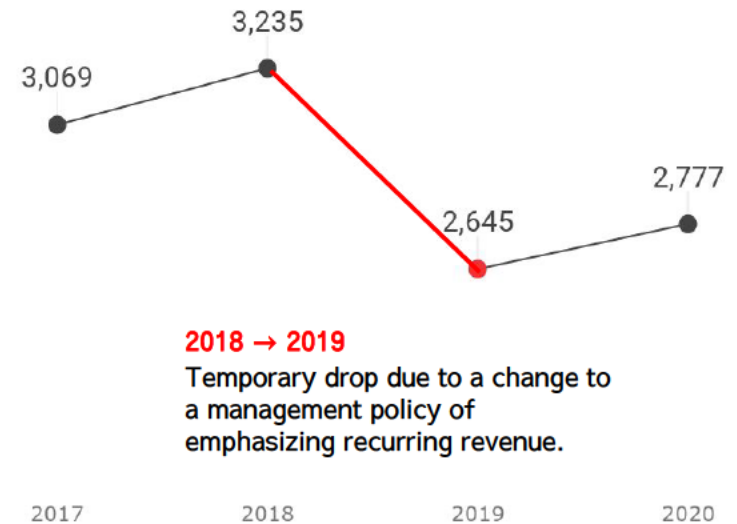
Expecting steady expansion for both number of switches and ARPU

The number of household and company switches remains steady while having only a low churn rate (approx. 1%)*1. We expect expansion through strengthening offline channels and marketing policies. ARPU is expected to continue to grow as well, as it is on an upwards trend thanks to the implementation of various measures such as increased one-time fees, sales of dual fuels tariffs, services related to renewable energy, and more.

Cumulative total of switches*2 Unit: Switches



ARPU*3 Unit: JPY



*1 The number of churns is calculated by the number of household/company users (the number of contracts in the previous month + the number of supply starts this month - the number of contracts this month). The churn rate is calculated by the ratio of the number of churns to the number of contracts which incur a renewal fee for household/company users (monthly average from January 2018 to June 2020).

*2. Calculation for general households by companies based on the rebates from the total obtained capacity using the capacity of a general household as 4kW.

*3. Average Revenue Per User: Calculated after dividing the annual segment sales by the cumulative total of switches for the year. Note that for FY2020, dividing the segment sales for the first 3 quarters by the cumulative total of switches during the same period and converting the result on 12 month basis.

Energy Data

"Greater efficiency through digitization"

Cloud-based digital transformation service for electricity/gas companies

We offer energy companies the new IT system through a cloud-based digital transformation service. At present, we offer three services and with ambitious plans to add more.



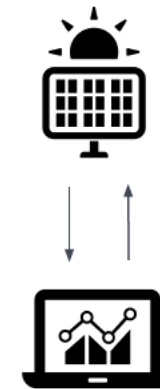
Electricity/gas price comparison



Electricity/gas switching application



Smart meter-based demand response



Renewable energy efficiency optimization

EMAP
Energy marketing SaaS

SMAP
Smart meter usage SaaS

JEF
Renewable energy power plant SaaS

Digitization

×

Deregulation

Digitization

×

Decentralization

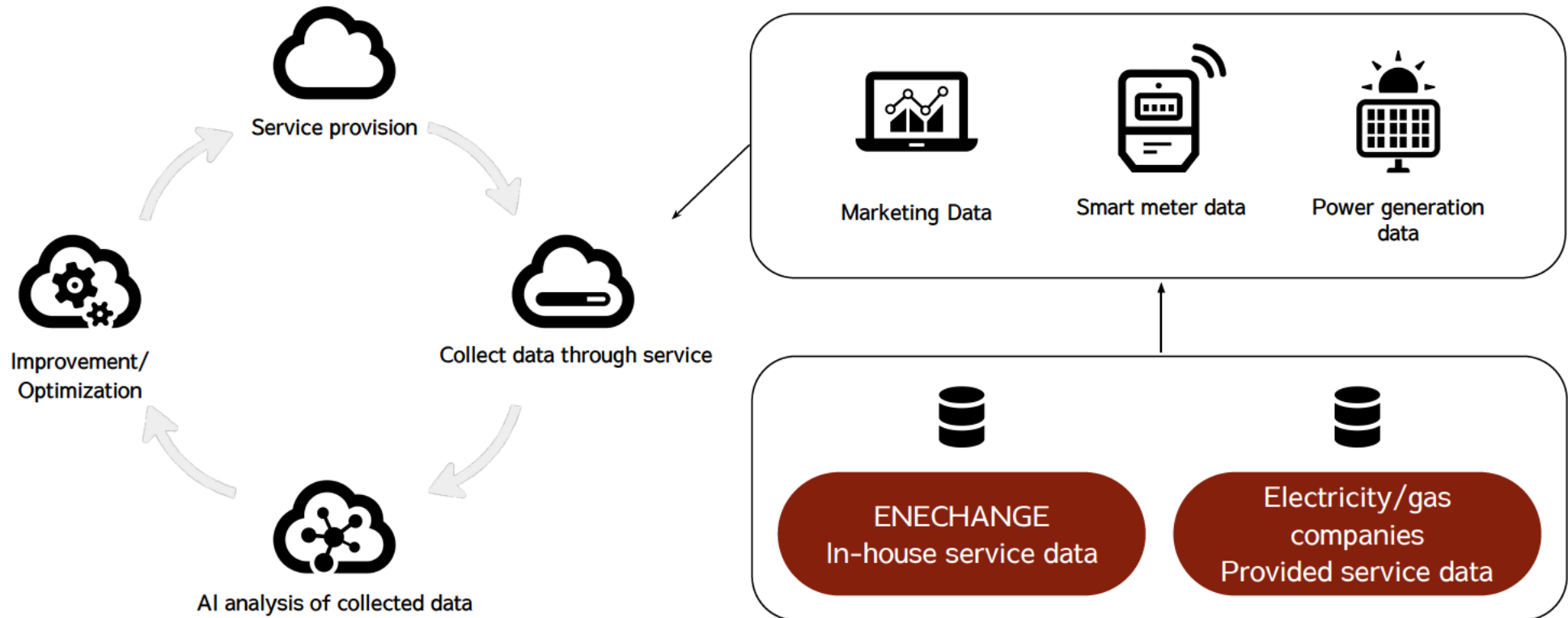
Digitization

×

Decarbonization

Providing services based on big data analysis

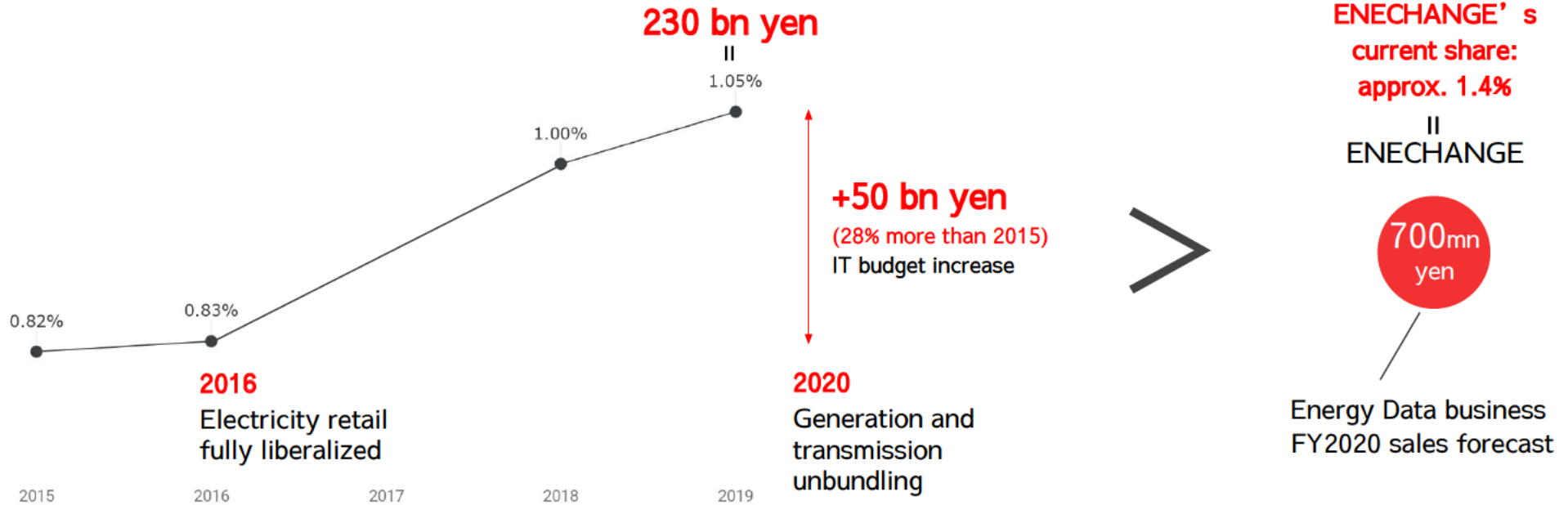
By transforming marketing data, smart meter data, power generation data and more with AI technology, we can provide more advanced services than any single company alone.



Long-term growth through expanding IT budgets in the energy industry

With the demand for investment in new systems, the revenue/IT budget ratio* has increased 28% over 2015 (approx. 50 billion yen). Our share is estimated at about 1.4%, and we expect it to expand further as we expand our services.

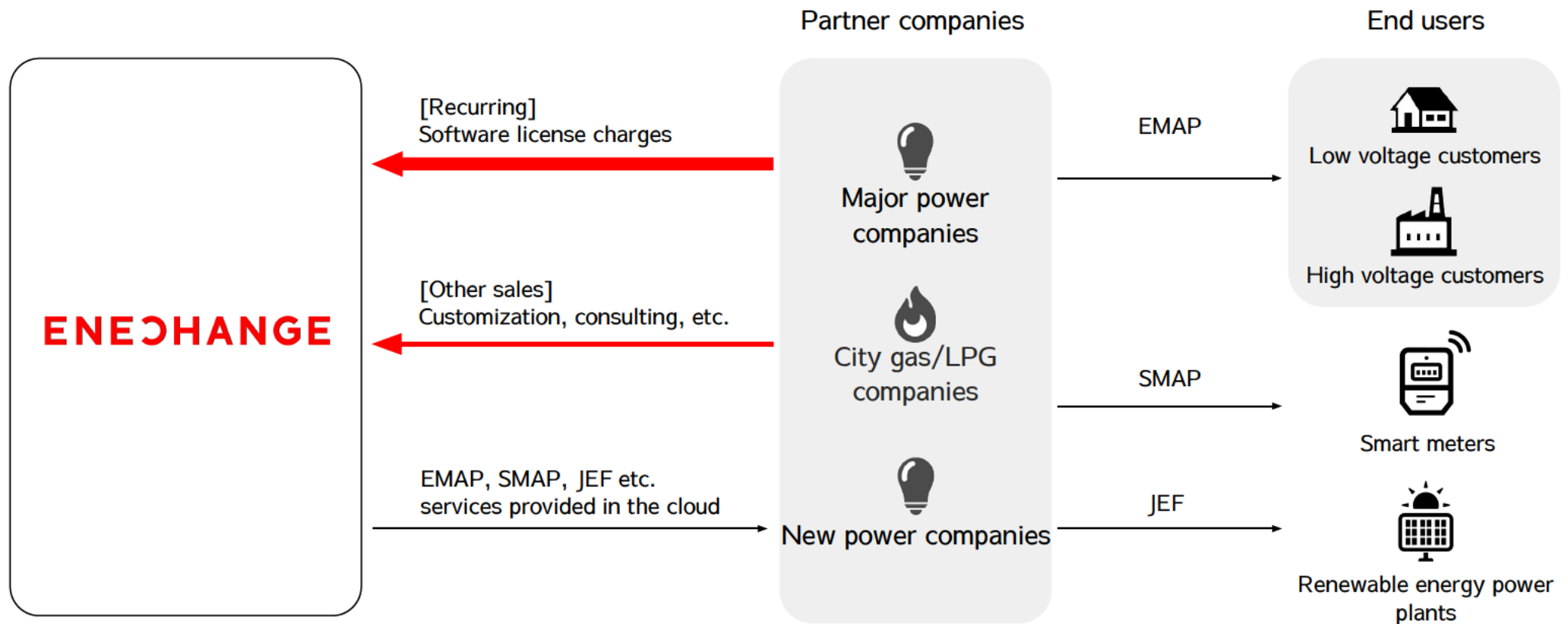
Revenue/IT budget ratio in the energy industry



* IT budget ratio in the energy industry (social infrastructure) sales in Japan Users Association of Information Systems, "Company IT Trends Survey" Budget ratio for 2017 not stated in this survey.

Recurring revenue from monthly license charges

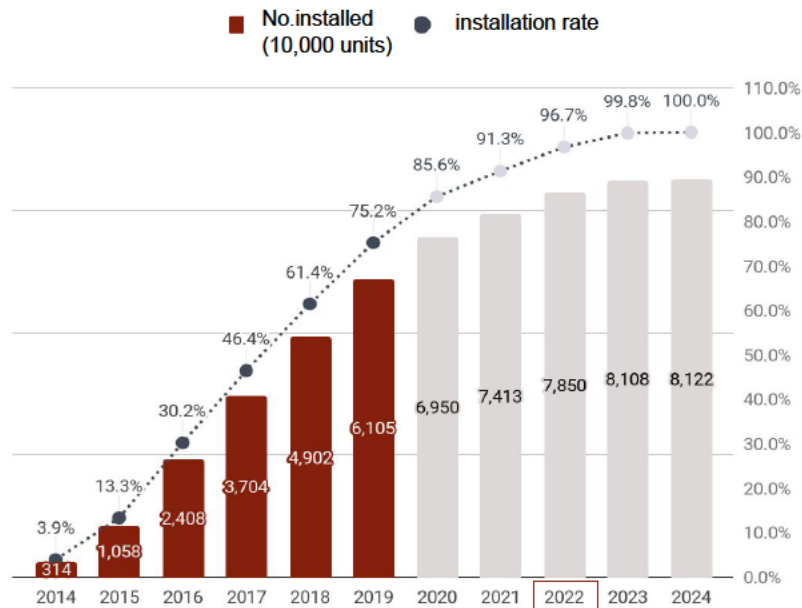
We provide our proprietary products as SaaS (B2B2C) to electricity/gas companies, and our revenue is based on recurring software licenses through usage charges linked to the number of end users (customers, smart meters, etc.). Other revenue comes from customization, etc.



Expand customer base through open access of Smart meter data in spring 2022

Smart meter data*¹ is expected to be available through open access in April 2022, which will allow companies other than electricity/gas companies access to smart meter data obtained from more than 78 million smart meters. We expect the usage of smart meter data to expand, and foresee an expansion of sales to future new sectors such as transportation, banks, home appliances, medical/nursing care, distribution/restaurant, local government, and so on.*²

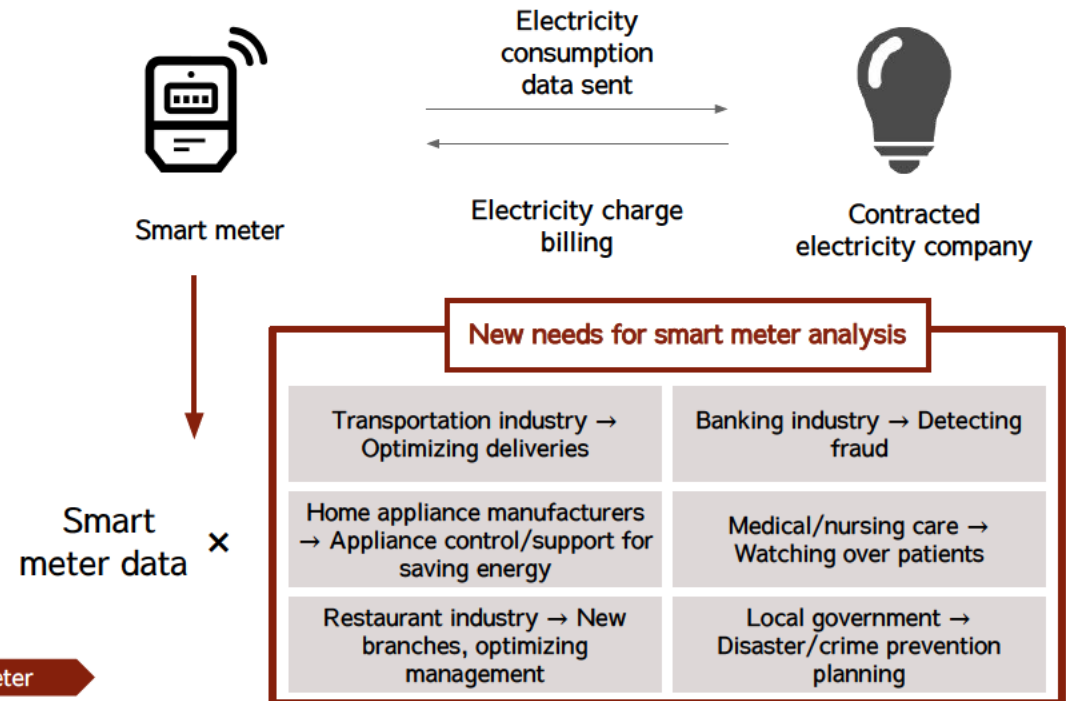
Number of installed smart meters*³



*Actual results until the end of March 2020. After the announced figures

April 2022: Open Access of Smart Meter

The future of smart meter data



* The Revision of the Electricity Business Act and the Act on Special Measures Concerning Procurement of Electricity from Renewable Energy Sources by Electricity Utilities to promote the utilization of smart meter data to expand the use of smart meter data obtained from smart meters was passed by the 20th Ordinary Session of the Diet and is scheduled to come into effect in 2022. After it comes into effect, even companies that are not electricity retailers will be able to utilize smart meter data, which is expected to create new markets through the use of smart meter data by a range of businesses.

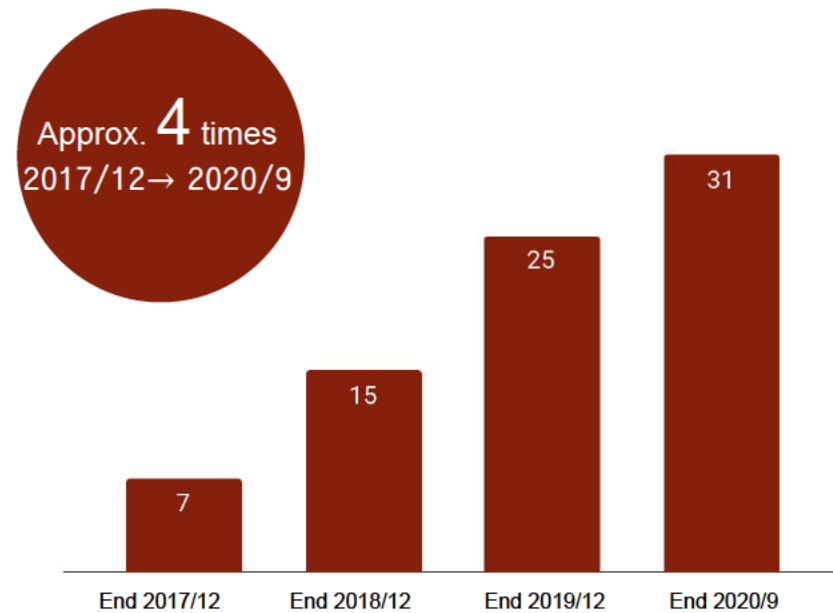
*² Taken from examples in the materials in the Agency for Natural Resources and Energy, The Effective Utilization of Power Data (March 9, 2020)

*³ Graph created based on the plans to introduce smart meters in the low-voltage sector in the materials in the Agency for Natural Resources and Energy 27th Electricity and Gas Basic Policy Subcommittee Document 3, Progress of future utilization of electricity/gas retailing (July 28, 2020)

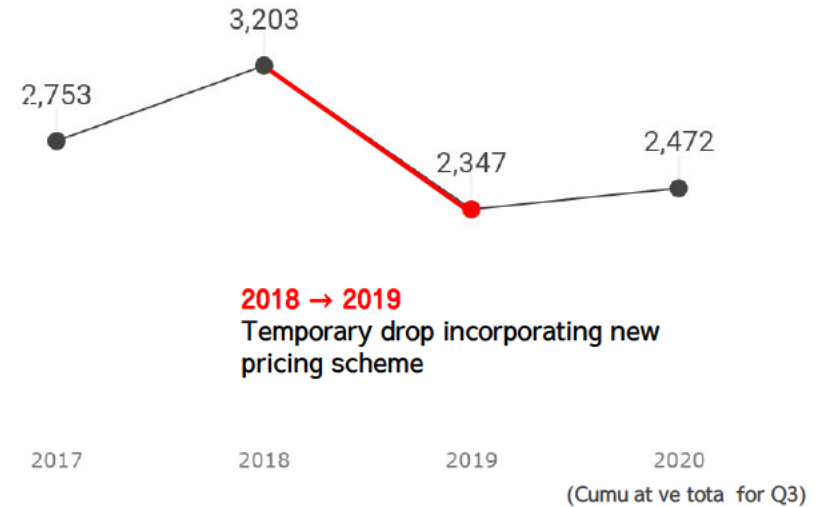
Expecting steady expansion for both number of customers and ARPU

Our number of customers is steadily growing (with a churn rate of about 1% a month*¹) thanks to the development of low-priced products and efficient sales activities based around Energy Platform business clients, and we expect further expansion of customer numbers in the future. We also expect expansion for ARPU by introducing new products.

No. of customers*² Unit: No. of companies



ARPU*³ Unit: 10,000 JPY



*1. Churn rate = Number of churns in the fiscal year (including churns during the period) / Number of continuous products at the end of the previous fiscal year + Number of new products in the fiscal year (including churns during the period)

*2. Counting the number of customers who have a record of transactions for at least one month in the relevant fiscal year.

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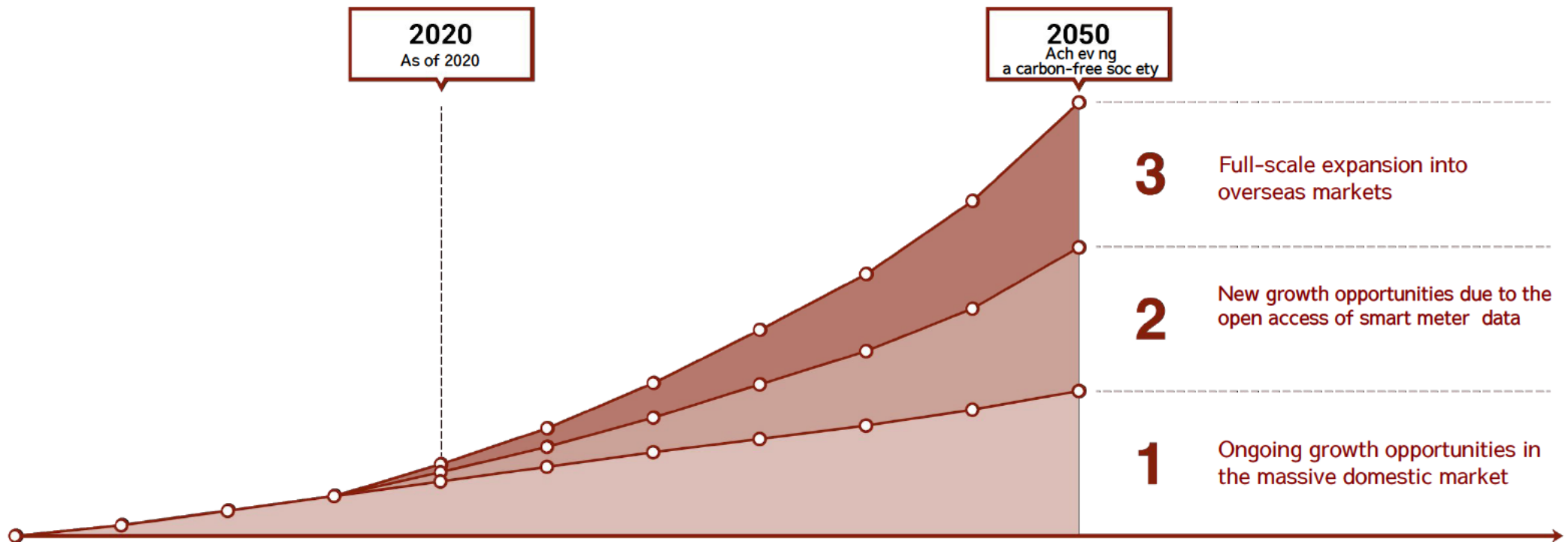
*3. Average Revenue Per User: Dividing the annual segment sales by the number of customers for the fiscal year.
Note that for FY2020, dividing the segment sales for the first 3 quarters by the number of the customers at the end of Q3 and converting the result on 12 months basis.

Future Growth Potential

"Three growth opportunities"

Growth opportunities in three axes

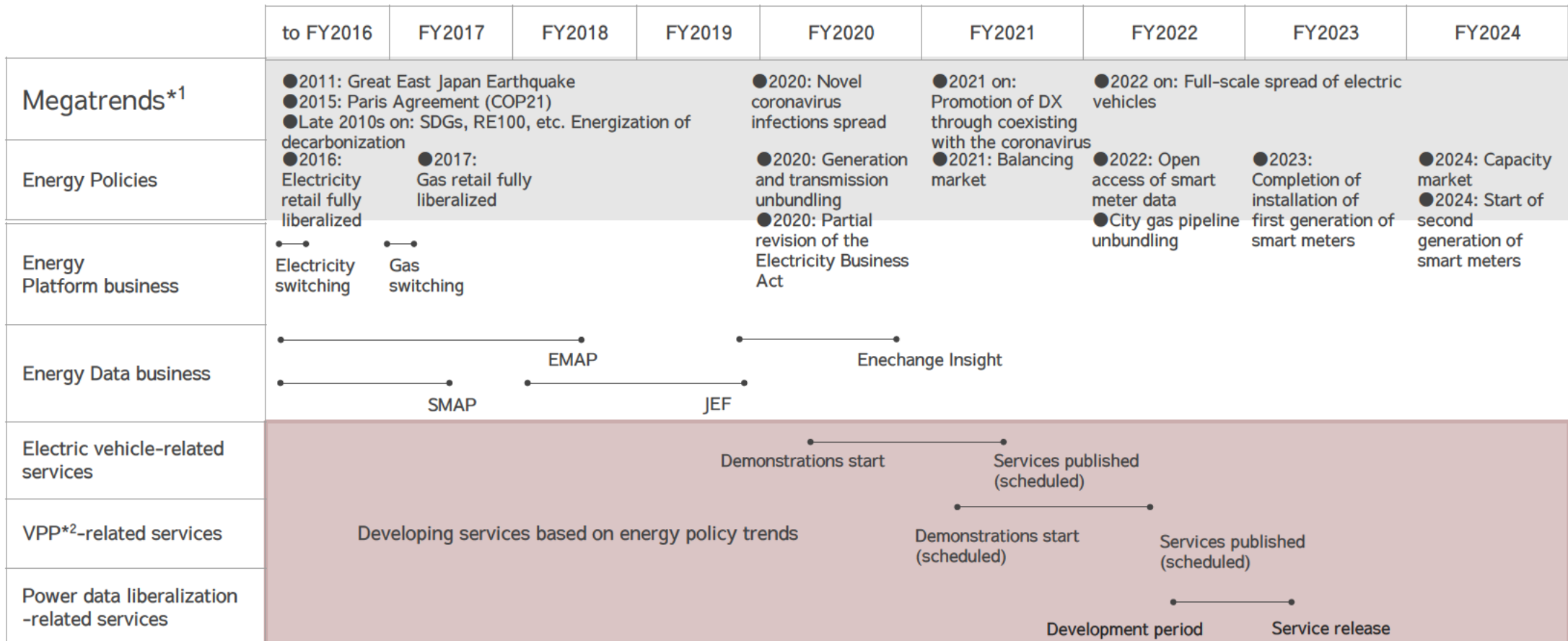
The energy industry is continuing reforms to achieve a carbon-free society by 2050, and we also expect to see growth in our business opportunities. We believe we can maintain high growth in the medium term through (1) ongoing growth opportunities in the massive Japanese domestic market; (2) new growth opportunities due to the open access of smart meter data; and (3) full-scale expansion into overseas markets.



New growth opportunities to match reforms to the energy system

Reforms to Japan's energy systems are in an eight-year transitional period between the start of liberalization in 2016 to the start of the capacity market in 2024. These system reforms incorporate European systems as references, so the knowledge and networks of Europe and its prior examples is important. We intend to draw on knowledge from the UK to provide new, advanced services over 2021-2022.

○ Start of development ● Start of services

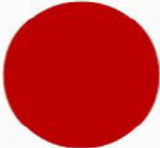


*1. First Smart Meter Usage Study Working Group Materials, Mitsubishi Research Institute, "Future Consideration Directions"

*2. VPP, or Virtual Power Plant, refers to the provision of the same functions as a power plant by the control of distributed energy resources by the owner or a third party.

Energy Platform in Asia, Energy Data into Europe

As liberalization of energy is expected in Asian nations such as South Korea, we are working to build partnerships with major local companies with a view to deploy our platform business. As the use of smart meter data has already started to an extent in Europe, we are working on demonstration projects with major British companies with the goal of starting services during 2021.

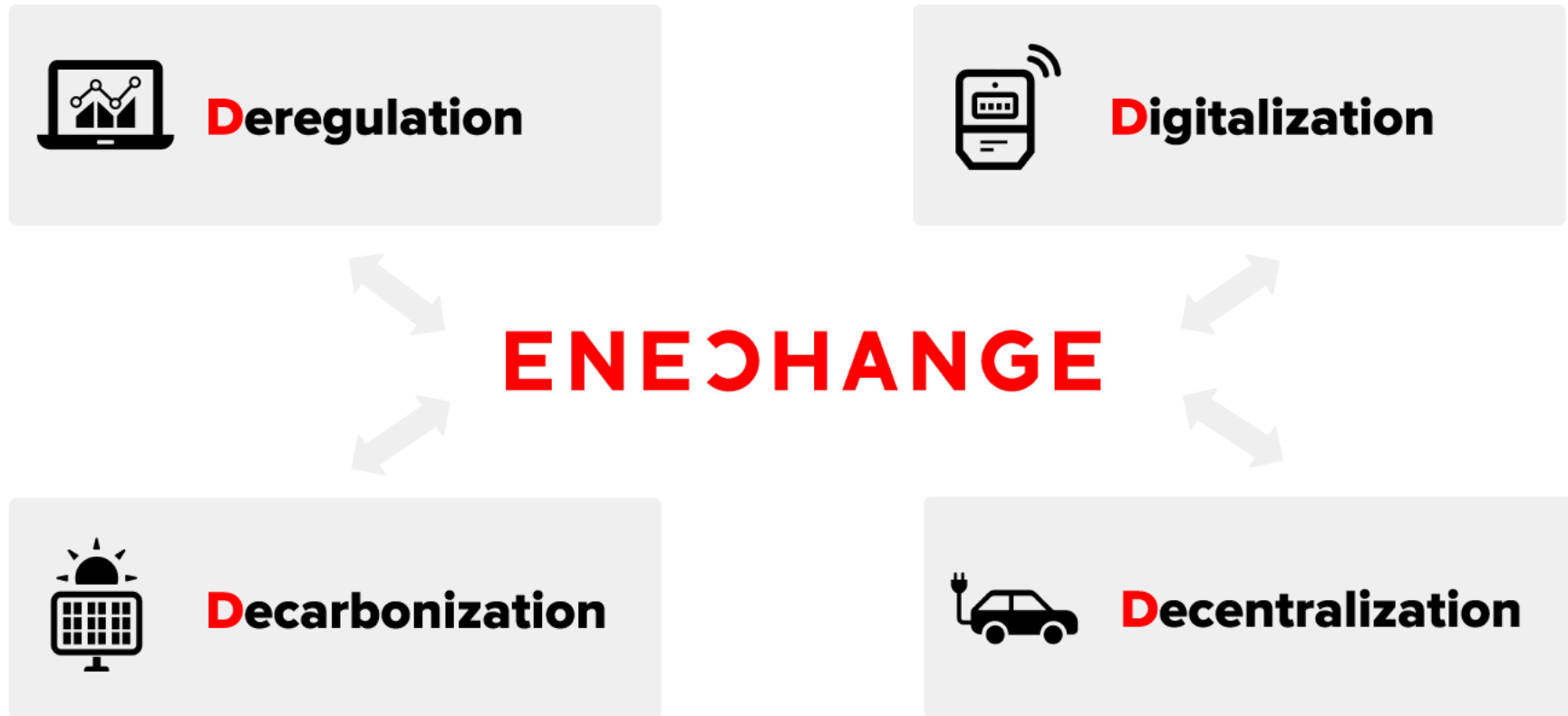
Target nations	Energy demand*1 (Compared to Japan)	Energy retail liberalization	Smart meter installation rate	Current initiatives
	1.0	Fully liberalized 2016	75%	
Asian countries (except China) India, South Korea, Thailand, Indonesia, Taiwan, The Philippines, Vietnam, etc.	3.4	Currently studying	- %	Energy Platform business: Studying with local companies in step with energy liberalization in countries like Korea
European countries UK, EU	3.9	Fully liberalized 1998 - 2007*2	72% ³	Energy Data business: Currently demonstrating smart meter data analysis with major British companies

*1. Obtained by multiplying the size of the Japanese market with the values calculated by extracting the relevant countries from the per-country power consumption data in "The World Factbook" issued by the CIA.

*2. Fully liberalized, Source: The Federation of Electric Power Companies of Japan, "Information Related to Overseas Electricity Power"

*3. Source: IoT Analytics, "Smart Meter Market 2019"

A future with the 4 Ds of energy, and ENECHANGE at its heart

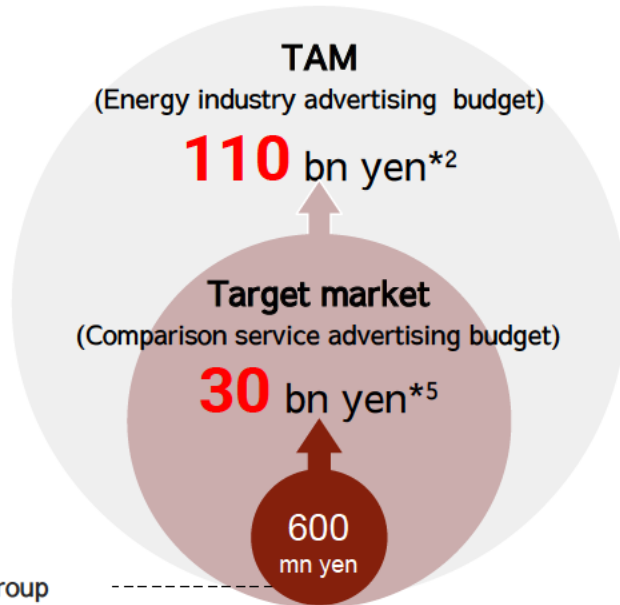


APPENDIX

TAM (Total Addressable Market): 340 billion / target market: 80 billion

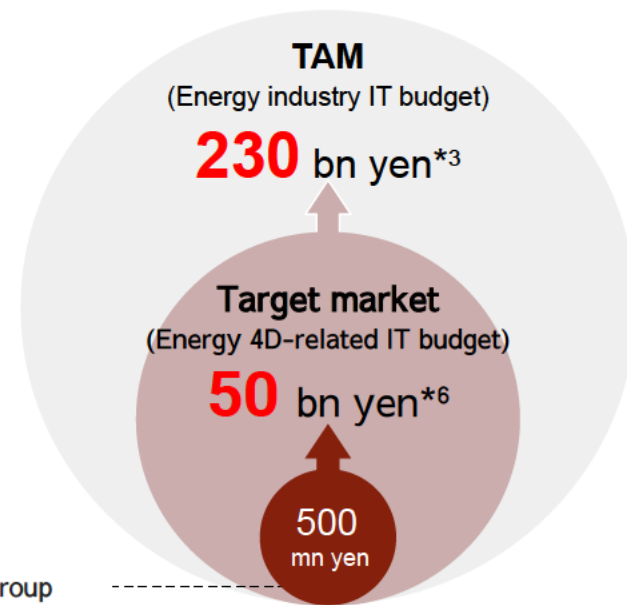
Of our TAM*1 of 340 billion yen*2*3 in the 22 trillion yen electricity/gas market, we define "comparison service-related advertising budget" and "energy 4 D-related IT budget" as our target market*4 and estimate this to be 80 billion yen. We expect this target market to expand as progress is made on the 4 Ds of energy as we head towards a carbon-free society, and are increasing our share through expanding our services.

Energy Platform Business



ENECHANGE Group
Energy Platform Business sales (FY2019 actual results)

Energy Data Business



ENECHANGE Group
Energy Data Business sales (FY2019 actual results)

*1. TAM stands for Total Addressable Market. This term refers to the largest market size that the Group currently envisions. It is not calculated to show the objective market size of the businesses we are running as of the date of submission of this document, but includes estimated values as we see.
 *2. Calculated from Electricity and Gas Market Surveillance Commission, "Electricity Trading Report Results" and "Gas Trading Report Results" (both 2019) electricity/city gas sales volume of 19.2Tn and sales volume data for 2019 from the Japan LP Gas Association of 22Tn, and given a weighted average from the sales advertising expenses ratio (0.3% for electricity, 1.0% for gas) of electricity/gas companies in Nikkei Advertising Research Institute, "Advertising Expenses for Major Companies, 2019 Edition" (issued October 2019).
 *3. Calculated by multiplying the IT budget ratio of 1.05% (FY2019) in the energy industry (social infrastructure) sales in the Japan Users Association of Information Systems, "Corporate IT Trends Survey 2020 (Survey from FY2019)" with the base market from *2.
 *4. The market scale at which our Group's services or products can currently approach TAM.
 *5. Calculated by dividing the FY2019 segment sales for the Energy Platform business of 681M by 1.8%, from the estimate of our share being about 1.8% based on our approx. 70,000 household electricity switches annually over the past year in terms of the approx. 4 million electricity switches annually for the market as a whole.
 *6. Calculated by multiplying the electricity/gas market size of 22Tn by 0.23%, which is the increase in the sales IT budget ratio from 0.82% in FY2015 to 1.05% in FY2019.

Item	Affected Business Segment	Main Risk	Potential of Manifestation/Timing	Impact	Risk Countermeasure
Business environment: Electricity retail market	<div style="background-color: #800000; color: white; padding: 5px; text-align: center;">Energy Platform</div> <div style="background-color: #d2b48c; padding: 5px; text-align: center;">Energy Data</div>	- The possibility that growth of existing businesses will slow with switching rates declining, caused by events such as a decrease in interest of end users to switch as well as lowered competitiveness among new energy retailers.	Low/Mid- to long-term	High	- Respond by developing businesses that do not depend on switches in business fields such as digitization, decarbonization, and decentralization to combat concerns about slowed growth in the electricity retail market.
Business environment: Electrical power system reform	<div style="background-color: #800000; color: white; padding: 5px; text-align: center;">Energy Platform</div> <div style="background-color: #d2b48c; padding: 5px; text-align: center;">Energy Data</div>	- The possibility that the development of new businesses could be affected if energy-related deregulation or systematic reforms in Japan do not proceed as planned, or there are unexpected changes in the laws or regulations.	Low/Mid- to long-term	High	- Respond by monitoring system reform by setting up a government policy supervisor, submitting public comments, and participating in governance committees.
Business environment: Related markets	<div style="background-color: #800000; color: white; padding: 5px; text-align: center;">Energy Platform</div> <div style="background-color: #d2b48c; padding: 5px; text-align: center;">Energy Data</div>	- The possibility that business growth could be hampered by sudden changes due to new regulations regarding the internet, cloud, etc. or other unexpected factors, or restrictions on usage environments.	Low/Mid- to long-term	High	- Respond by developing multifaceted related services that respond to these changes in the internet, cloud, big data, and other related markets.
Business content/Provided services: Dependence on electricity/gas companies	<div style="background-color: #800000; color: white; padding: 5px; text-align: center;">Energy Platform</div> <div style="background-color: #d2b48c; padding: 5px; text-align: center;">Energy Data</div>	- The possibility that unexpected events such as natural disasters and sudden phenomena could worsen the management conditions of the electricity/gas companies that are our business partners, leading to revisions of existing contract conditions, cancellations, suspension of new orders, and so on.	Low/Mid- to long-term	High	- Respond by establishing a business foundation that does not depend on specific companies by expanding businesses in multiple directions.
Business content/Provided services: Status of competitors	<div style="background-color: #800000; color: white; padding: 5px; text-align: center;">Energy Platform</div> <div style="background-color: #d2b48c; padding: 5px; text-align: center;">Energy Data</div>	- The possibility that the entry of competitors could cause greater competition in the Group's business fields, resulting in user cancellation, drops in unit prices contracted with electricity/gas companies, or a slowdown in taking up our services.	Low/Mid- to long-term	Medium	- Respond by developing better services and products through healthy competition.

* The major risks of revenue growth and executing business plans have been excerpted from the contents stated in "Associated Business Risks" of the securities registration statement. Refer to "Associated Business Risks" of the securities registration statement for the other risks.

Item	Affected Business Segment	Main Risk	Potential of Manifestation /Timing	Impact	Risk Countermeasure
Business content/Provided services: Search engines	Energy Platform	- The possibility that customer acquisition could be affected if changes to algorithm logic in internet searches affect the display rankings of search results or a new search engine becomes mainstream.	Medium/Unknown	Medium	- Adjust SEO strategy. - Respond by attracting customers through channels that do not rely on the internet.
Business content/Provided services: Technological innovation, etc.	Energy Data	- The possibility that we will be unable to respond quickly enough to changes in customer needs or technological innovations, or that it will require considerable funds such as system investment or personnel expenses to respond to these changes.	Low/Mid- to Long-term	Medium	- Facilitate horizontal information sharing between departments, mainly through the CTO Office, and by rolling out services that match customer needs.
Business content/Provided services: System failures, etc.	Energy Platform Energy Data	- The possibility that natural or man-made disasters, terrorism, war, etc. could cause a system failure and hamper the provision of our services.	Low/Unknown	High	- Respond by reducing risk in system architecture to minimize reliance on external vendors such as servers, and formulating a backup plan that allows business continuance in the event of a system failure in an external vendor.
Other: Novel coronavirus infections	Energy Platform Energy Data	- The possibility that the power usage of corporate users drops considerably due to repeat declarations of states of emergency and calls to refrain from going out as the COVID-19 pandemic becomes long-term, or that it affects the business performance of our Group customers more than expected.	Medium/Unknown	High	- Diversify business offerings to mitigate adverse effects of coronavirus pandemic.

*The major risks influencing each evolving growth and executing business plans have been excerpted from the contents stated in "Associated Business Risks" of the securities registration statement. Refer to "Associated Business Risks" of the securities registration statement for the other risks.