

Realization of a Zero Energy Cost Society
FOR THE FUTURE.



Corporate Profile

Realization of a zero energy cost society

Imagine a life in which you can use energy (electricity) freely. You can live a comfortable and pleasant life 24 hours a day, 365 days a year. In addition, you can reduce your costs of travel and transportation. This will be helpful in solving social challenges, including those related to areas and age. If we become free from all restrictions on energy use, we will have more freedom in connecting with others, and you will become able to do what previously could not, going beyond even national borders.

Producing energy leads to creating new values. In a society where anyone can use renewable energy free of charge, you will have access to new services and values. The zero energy cost society will bring out people's ability to the maximum, produce new innovative businesses, and create a free and rich future.

At Loop, we will continue to move ahead as a leading company to create a new world through realizing a zero energy cost society.



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Changing the notion of energy: Loop's products and services

Our company name "Loop" implies the concept of circulating energy, and its three o's represent three segments of electric power: solar, wind, and hydraulic energies. We started with the sales of My Power Plant Kit, and we launched "Loop Denki" electricity retail business with no basic charge, which was the first such attempt in the industry. As an integrated renewable energy company, we will further contribute to a paradigm shift of energy, from consuming it to circulating it.

2011.12
Started sales of easy-to-assemble power station kits
自分で作れる
MY発電所キット



2012.8
Started sale of solar power plant remote monitoring systems.
遠隔監視システム
みえる一ふ

2012

2011.9
Installed company-owned power plant.



2011.4
Established Loop Inc.

2013

2014

2014.7
Started sale of solar power plant O&M service.
保守管理サービス
まもる一ふ



2015

2016

2016.3
Released low-voltage electricity retail service.
Loopでんき



2016.5
Released solar power generation systems for residential use.
Loop Solar



2016.11
Started offering a 30-year purchase guarantee for solar power generation.
LoopFIT

2018

2019.10
Started accepting applications for electricity/gas set plan
Loopでんき+ガス

2018.2
Started sale of My Self Consumption Set@.

2017.4
Started sale of storage battery solutions.
Loopでんち



2019

2019.11
Started offering service plans for customers whose eligibility under the FIT scheme has expired.
Loopでんき

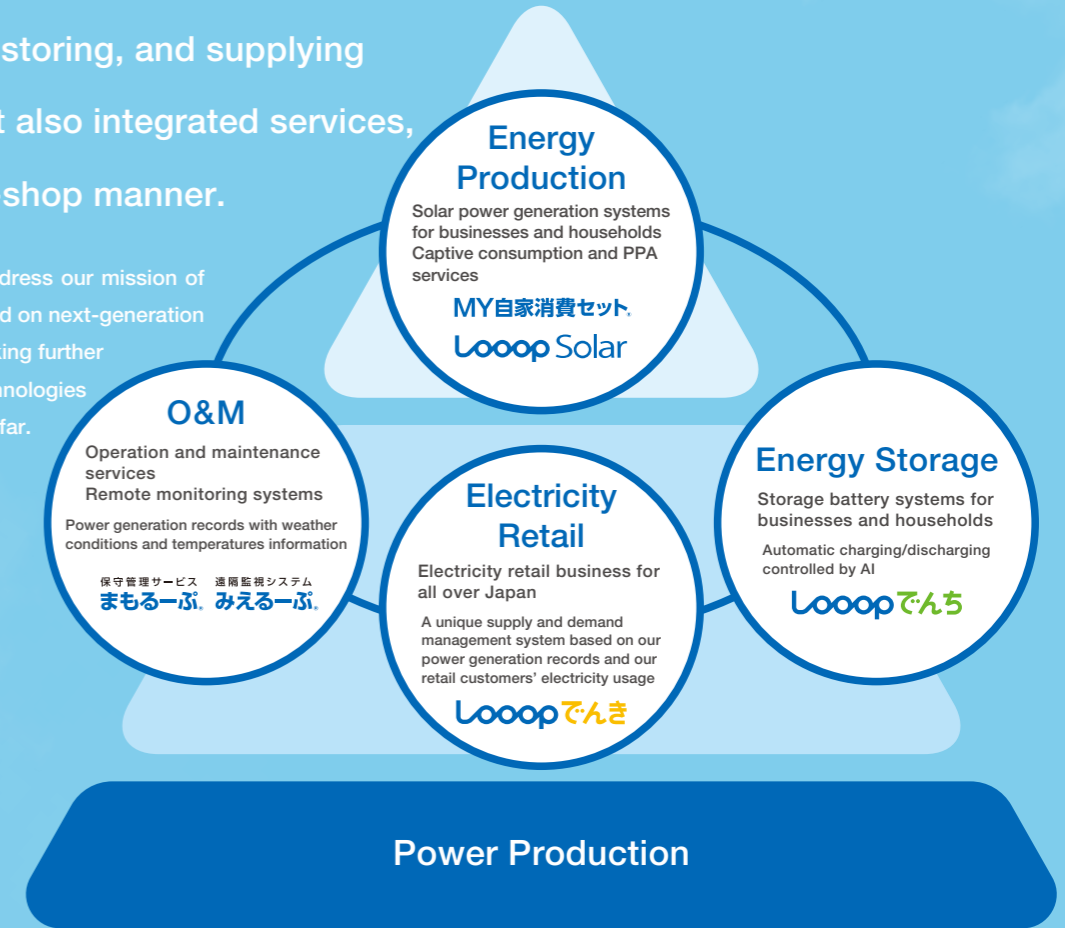


Loop uniquely delivers comprehensive solutions

The spread and effective use of renewable energies are a common hope of people worldwide. There are, however, many challenges that we have to overcome to make the wish come true. Taking advantage of its strengths as an integrated service provider, Loop tackles each of these challenges with all its might and provides feasible solutions for the maximum spread of renewable energy.

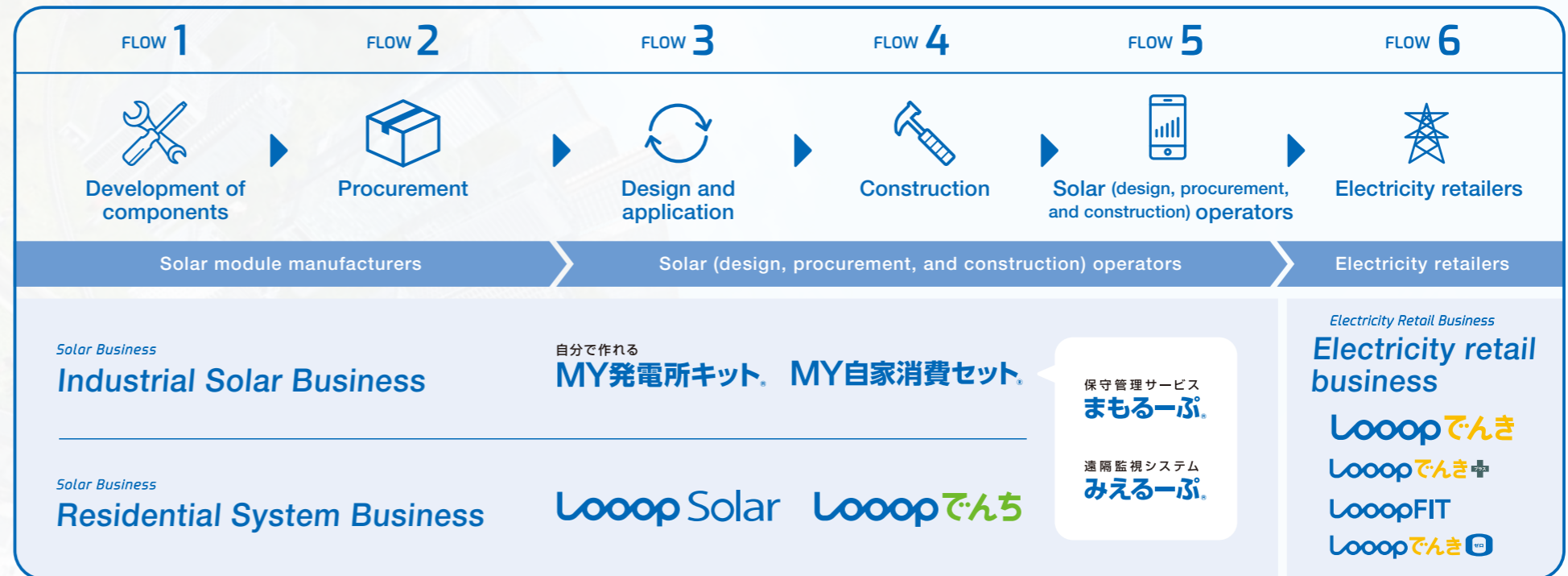
We provide not only individual services of producing, storing, and supplying electricity, but also integrated services, in a one-stop-shop manner.

We will continue to address our mission of building a society based on next-generation energy sources by making further innovations on the technologies we have developed so far.



Integrated services, not limited to design, procurement, and construction: A supply chain of solar power generation

Loop provides new products and services by combining its knowhow of power generation with its electricity retail operations for general households and businesses. We provide services for individual customers, including "Mirai Hatsuden", which lowers the hurdle of installing solar panels on the rooftops, and EV discount, which reduces the electricity charges for electric vehicle owners at home. And we construct large power plants in cooperation with local operators and provide O&M Services to monitor those plants remotely after their installment.



Industrial Solar Business

Our own power plants

Loop's initiatives out of brand-new ideas

Producing energy and creating technologies from our community-oriented power plants

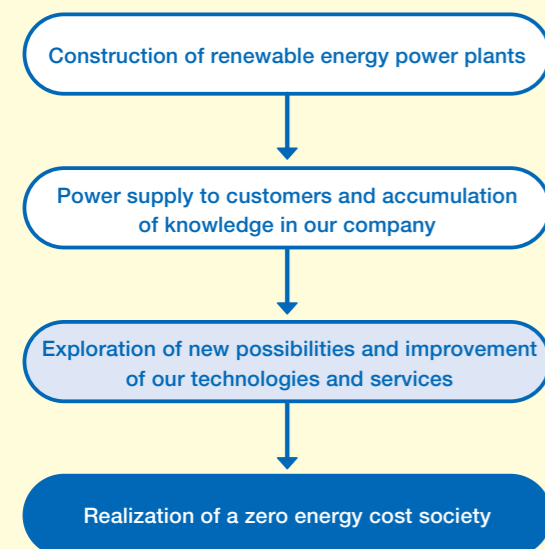
As a leading renewable energy company aiming to realize a zero energy cost society, Loop operates its own power plants at 21 sites in Japan.

We have a wide variety of power plants, including a large scale solar power plant with a total output of 32 MW, as well as plants equipped with our agriphotovoltaic systems to co-develop farmlands. With a total generating capacity of approximately 50 MW, our plants not just deliver generated power to customers, but contribute to improve our technical capabilities and to accumulate operating know-how in our company.

Furthermore, Loop has been steadily realized developments of power plants where its construction seemed difficult, such as places where the ground is loose, rocky, or sloped, based on the fundamental principle of Safety First. We have been developed new methods of construction and new mounting systems without adhering to any preconceived ideas.

We never fail to give due consideration to local communities, including noise control for neighboring residents and tree planting to prevent the landscape from being spoiled.

We will continue to construct renewable-energy power plants with such attentive care.



Solar power systems for industrial use

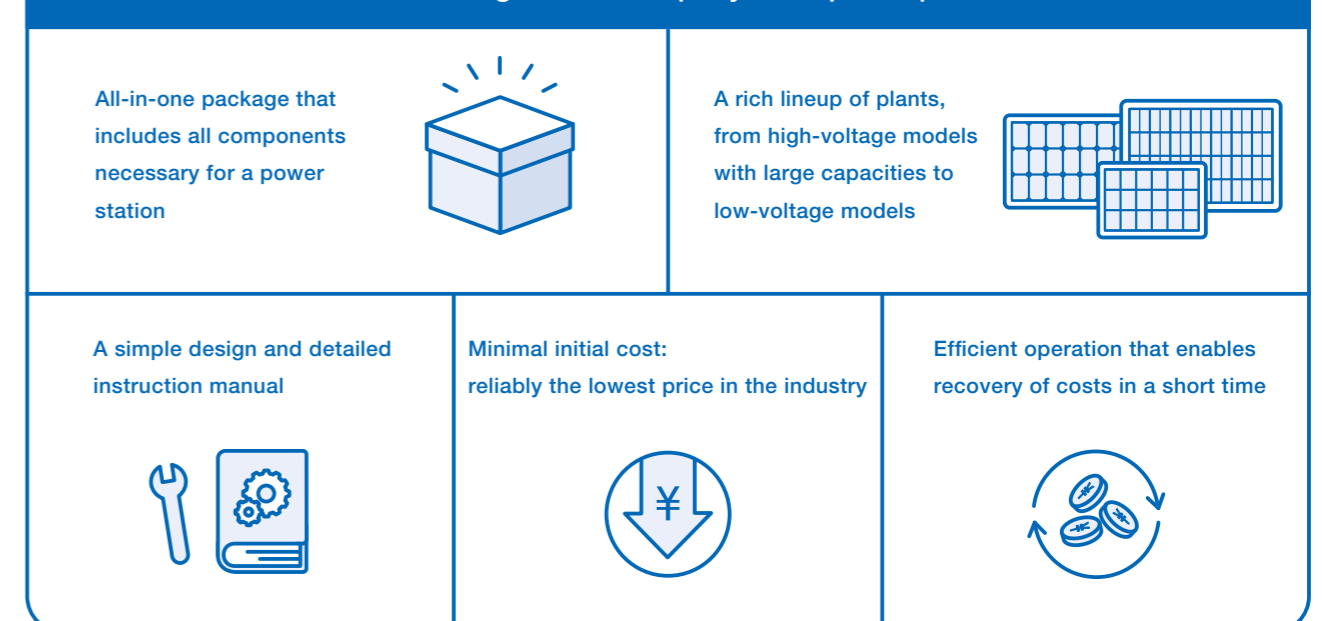
自分で作れる

MY発電所キット®

Power station kit for you, advancing with the times.

Imaging about “power plant,” you may think that because it requires various facilities, it will be difficult to have one. However, there is no need to worry about that if you use a power station kit that Loop provides. Let alone solar panels, which are pivotal for power generation, we will provide you with all necessary components of a power station in an all-in-one package, including a power conditioning system, an aluminum mounting system, a distribution board, and cables. We offer a diverse lineup of plants, ranging from high-voltage models with large capacities to low-voltage models, from which you can choose one that matches your needs. Based on the concept that you can make a power station by yourself, the kit is designed as simply as possible. In addition, a detailed instruction manual allows you to perform the assembly work confidently even if you are installing a power station for the very first time. Loop's know-how has made the package prices one of the lowest in the industry. You can minimize your initial investment cost and recover such cost in the shortest time. Only Loop can make such efficient operation possible.

Five advantages that uniquely Loop can provide



Solar power systems for industrial use

MY自家消費セット®

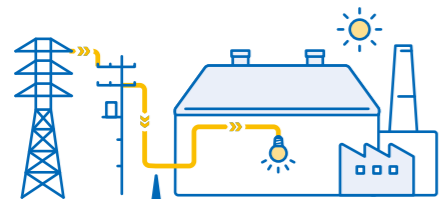
Self consumption solar power systems for corporations, which enable them to recover their investment in five years at the earliest.

Paradigm shift from buying electricity to self-producing it. Our solar power generation systems for Self consumption make this shift happen. Your investment can be recovered in a short time, with electric charge reduction through self consumption, income from the sale of surplus power, and gains through the application of discounts of Loop Denki retail service, combined with the procurement ability of Loop with know-how in dealing with solar panels.



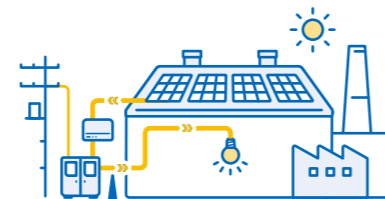
In the future, self-produce, not buy, electricity for yourself.

Established practice of buying electricity



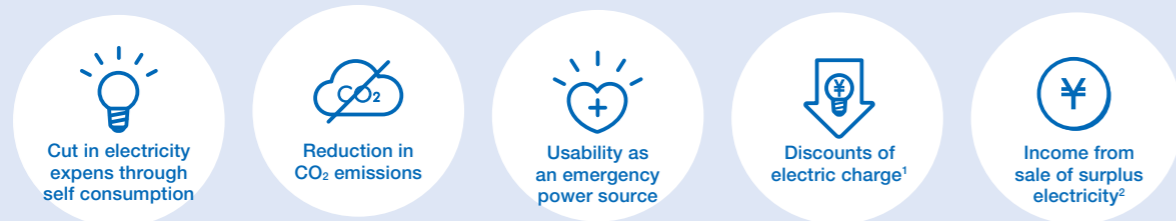
It is said that consumers will bear higher costs of electricity in the future due to a rise in the renewable energy power promotion surcharge.

Self-producing electricity in the future



As you do not need to buy a self-consumption portion of electricity from the grid, you can reduce your expense. In addition, you can get a stable income by selling electricity to the grid under the FIT scheme.

Advantages of self-consumption power generation .



¹ Discounts may not be available depending on the agreement conditions. ² Sale of electricity may not be allowed depend on consultation with a power transmission company.

Self Consumption Solar Power Generation Business

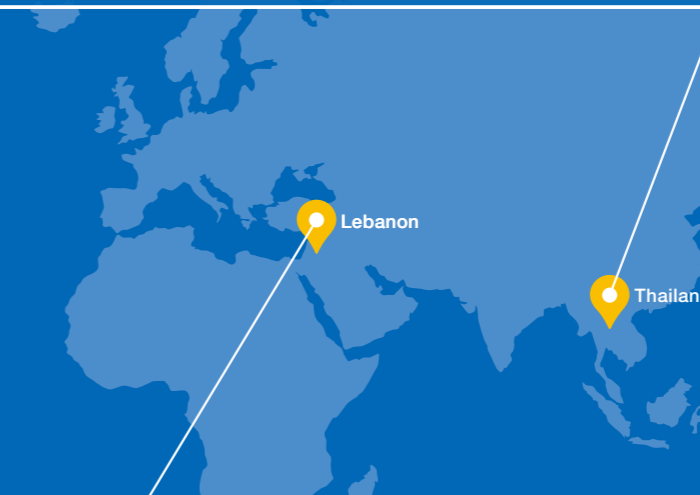
Our Record of Introduction of Solar Panels outside Japan



Hamasho Corporation (Thailand) Ltd. (Thailand)

We installed a solar power system by making effective use of the free space on the roof of an existing bicycle parking facility of a local Japanese company. The customer is satisfied with this system because of the reduction in its electricity charge through self consumption

Project country	Thailand	Place of installment	On the roof of an existing bicycle parking facility
Project type	Self consumption-type solar power plant	Installment period	One month
DC capacity	103.5 kW	Purposes of introduction	Reduction in the electric charge for chillers; CSR



Nova Energia (Lebanon and MENA [Middle East and North Africa] Region)

We installed a solar power system by making use of land privately owned by a local educational institution. This was the first PPA business in Lebanon. We will install this kind of systems in other campuses in the country.

Project No. 1

Project country	Republic of Lebanon	Place of installment	Roof of a facility of a private school
Project type	Self consumption solar power plant	Date of grid connection	June 2020
DC capacity	134.7 kW	Purposes of introduction	Reduction in the usage of generators on the premise of the school and in the electric charge; CSR

Project No. 2

Project country	Republic of Lebanon	Place of installment	Private land adjacent to a private university
Project type	Self consumption solar power plant	Date of grid connection	November 2020 (TBD)
DC capacity	553.8 kW	Purposes of introduction	Reduction in the usage of generators on the premise of the university and in the electric charge; CSR



▲ Project No. 1

Other Power Supply Development

Other Power Supply Developments

Wind Power Generation

In addition to solar power, we contribute to the spread of wind power generation.

These days, energy policies, SDGs, and other initiatives give a high importance on the spread and expansion of renewable energy, not only in Japan but also on the global level. Loop, which aims to realize a zero energy cost society by maximizing the use of renewable energy in society, is focusing on the development of wind, geothermal, and biomass power generation, in parallel with solar power generation, in order to make effective use of energy resources in each region. Particularly, wind power still accounts for a limited portion of the power supply in Japan, compared with other advanced countries in utilizing renewable energy. However, this power source, including offshore wind power, is drawing higher attention in Japan, partly because of its characteristics as an island country. Although there are several challenges in developing and operating wind power plant, including its operational cost, technologies required, and maintenance, step by step, Loop is committed to widely spread wind power generation by making steady efforts.



We are also challenging ourselves to develop other power sources, including geothermal power and biomass power.



Geothermal power generation

Japan has the third largest amount of geothermal resources in the world, and has the great advantage for developing geothermal power generation. Loop has set to develop geothermal power, with analyzing the capacity of geothermal resources as a heat source and its constituents. Focusing on hot spring binary power generation, we are developing our own geothermal power plant in Kyushu region.



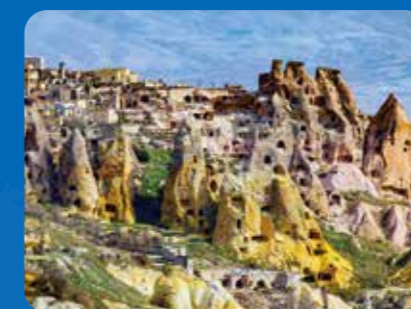
Biomass power generation

Biomass power generation uses biological resources from animals and plants through combustion or gasification. We believe that effective use of food waste, livestock waste, and scrap wood, all those has been considered as social issues, will contribute to reducing CO² emissions and enhance local economies. Loop is actively proceeding with initiatives, including collaborations with local governments.

Overseas Projects

Participation in the operation of power plants overseas

We are participating in the power generation businesses in Turkey and other countries in the Middle East and African regions, by jointly establishing an investment vehicle with multiple Japanese partner companies. We will contribute to the sustainable development of infrastructure in Turkey by realizing a bilateral partnership between Japan and the country on a private sector in the field of renewable energy. In addition, we are continuously working with many local players in emerging markets to expand renewable power supply there.



Turkey

Residential System Business

Smart Life

Providing total management of energy for home

With the use of natural energy, making your life richer and reducing your energy cost as close to zero as possible

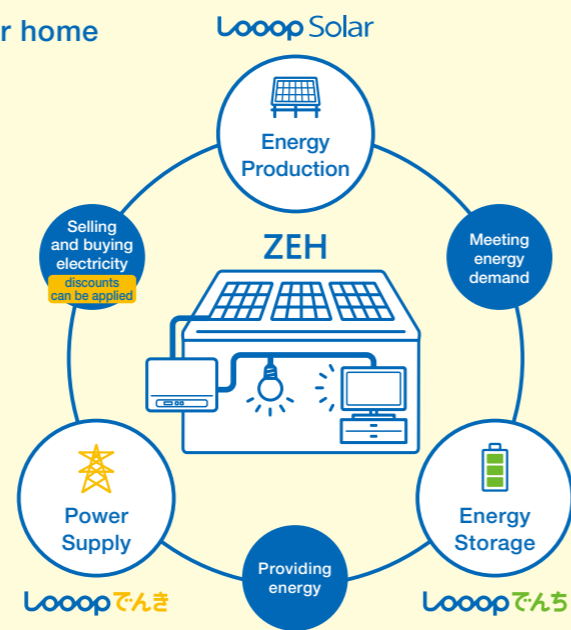
Net-zero energy houses (ZEHs)* are attracting attention as a means of realizing an environmentally friendly life.

Loop is addressing this concept of ZEHs as a company aiming to realize a zero energy cost society where we are self-sufficient in energy.

- Loop Solar: our solar power generation system for residential use

- Loop Denchi: smart home energy storage with use of AI

*A ZEH is a house that aims to achieve a net-zero annual energy consumption with the concurrent use of energy-saving measures and renewable energy.



Solar power systems for residential use

Loop Solar

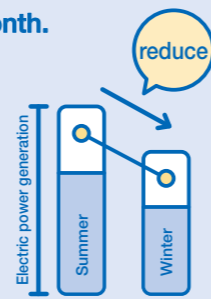
Making your life richer with the use of natural energy.

Loop Solar provides you with a mechanism to produce clean energy in your house and use it in your house. You can consume electricity produced with Loop Solar panels in your house and make profits by selling surplus electricity.

Our lease monthly priced in link with the volume of power generated reduces the risk of deficit in a month.

We offer the unique leasing service, which eliminates the initial cost and links the lease charge to the estimated amount of power generation so that you can reduce your monthly operational expenses.

Amount of electricity sold Captive consumption Lease charge



Home Energy Storage

Loop でんち

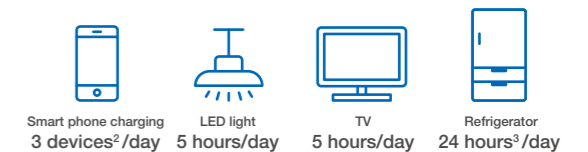
Store and use natural energy locally, at a lower cost.

Of all cost components for a solar power generation system, a storage battery accounts for the largest part. A large-capacity storage battery provides a sense of security at time of emergency, but, needless to say, the larger its capacity is, the higher it costs. Loop analyzed more than 1,000 cases of household use of electricity, made simulations to examine the balance between cost and practicality. The study demonstrated that our 4 kWh storage battery, which is smaller than other companies' products, is powerful enough both for daily use and for emergencies. In addition, we have reduced its cost substantially by commonization of the communication equipment with our industrial solar power system, procuring good-quality and low-priced components, and taking other cost-cutting measures. As a result, we offer Loop Denchi batteries at a price of less than 900,000 yen, as compared with other companies' retail prices of storage batteries, which range from 1.5 to 2.7 million yen.



Feel secure in a power outage or other types of emergency

Even in case of a sudden power outage, the following consumer electrical appliances can be used.¹



¹ These values vary depending on usage conditions, so they are only reference standards.
² The charging time for one phone is 2.5 hours.
³ The case of a 400-liter-class inverter-controlled refrigerator.

Minimizing your workload with cloud-based AI

In ordinary household storage batteries, charging/discharging switching is mainly manual, or controlled by a timer in a standardized manner, so it is impossible to adjust charging/discharging individually in light of each households' electricity usage conditions, status of solar power generation, or contracted electricity bill rate. To address this inefficiency, Loop has connected data on stored electricity, power demand projections, and weather forecasts all over Japan with the cloud-based AI, and analyzed the data in combination with other information, such as electricity usage conditions and contracted electricity bill rates, to enable timely and optimal charging/discharging for each household.



Electricity Retail Business



The first attempt in the industry: With no basic charge,¹ we bring natural energy closer to the people.

Low voltage



おうちプラン



ビジネスプラン

Now the electricity retail market has been liberalized, everyone is free to choose from which company to buy electricity. Under the concept of bringing natural energy closer to the people, we provide Loop Denki, our electricity retail service with about 26%² of its power supply coming from natural energy. Our starting point was a volunteer activity of installing solar power panels in areas affected by the Great East Japan Earthquake. Based on the experience and knowhow that we gained over the time, we use natural energy efficiently. In addition, in procuring electricity, we predict the power generation volume and demand accurately from the vast amount of data accumulated so far. Being a nature-friendly electricity company that cuts energy waste is Loop's starting point and strength.

No basic charge ever.¹
Just pay for what you use!

Basic charge: 0 (zero) yen

Established electricity billing scheme



Basic charge + Meter charge

Loopでんき

Basic charge + Meter charge

Loop charges no basic fees.

Loop Denki is the first service in the industry that has adopted a 0 yen basic charge policy. It has taken a steady step toward realizing a future when you can get energy with infinite freedom, by adopting a customer-first form of contract that does not require customers to stay with Loop for a certain number of years or to pay a cancellation charge. We have been delivering nature-oriented electricity since starting the service in 2016. In the future, we will not only supply nature-oriented electricity, but also contribute to local communities by producing and consuming energy locally and creating a more advanced power supply system.

Our steadily increasing power supply

Number of low-voltage contracts

Since the start of this service in 2016, the number of our low-voltage contracts has been steadily increasing. As of the end of February 2020, we had more than 200,000 contracts.

Extra-high-voltage and high-voltage contracts

We started our service for these categories in July 2015, and as of the end of January 2020, we had contracts totaling about 300,000 kW with customers all over Japan.*

*Except in remote islands.

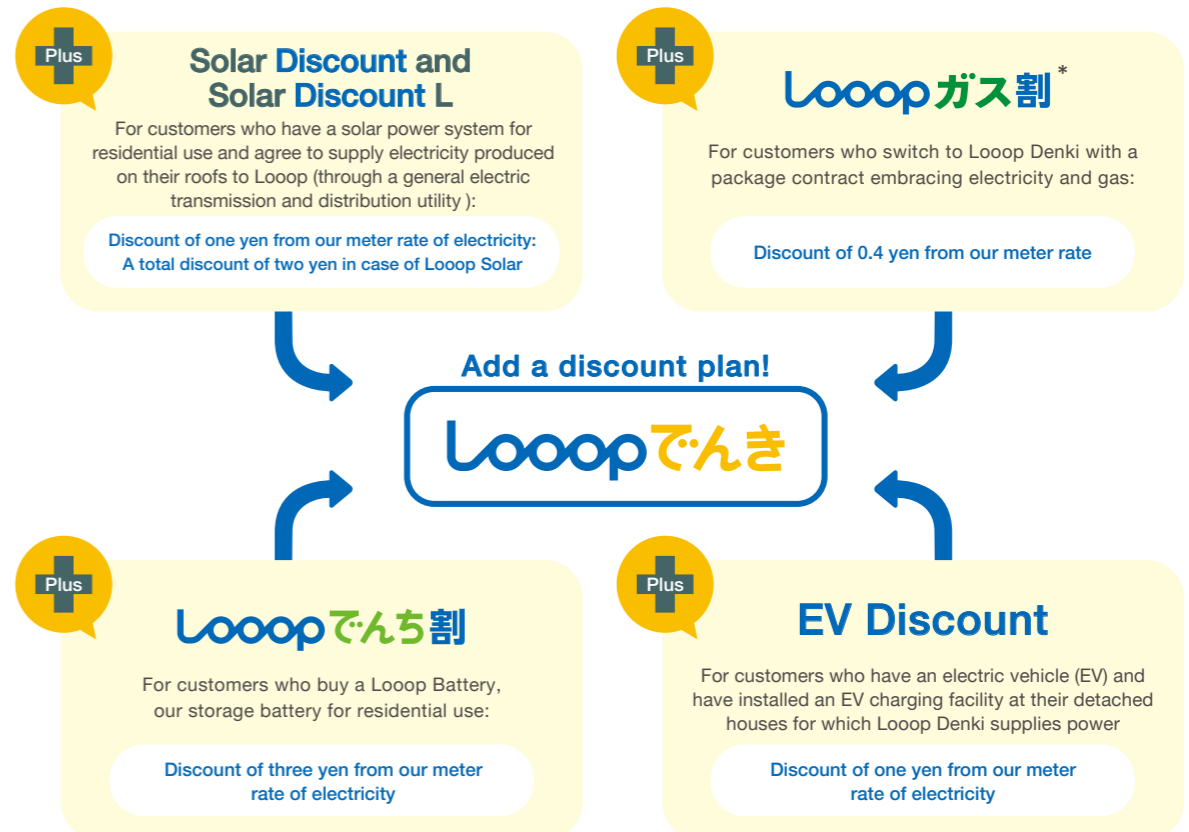


Loop's unique service starting from Loop Denki
Discount plans will make your electricity charge even lower.

Loop Denki + (plus) is a service that provides an additional value to Loop Denki with a view to making natural energy the standard for power generation. It is characterized by its freedom of choice of additional features, and above all, by its good economic value.

Loop Denki + discount plans

We can discount the meter rates for the Home Plan and the Business Plan in Loop Denki.

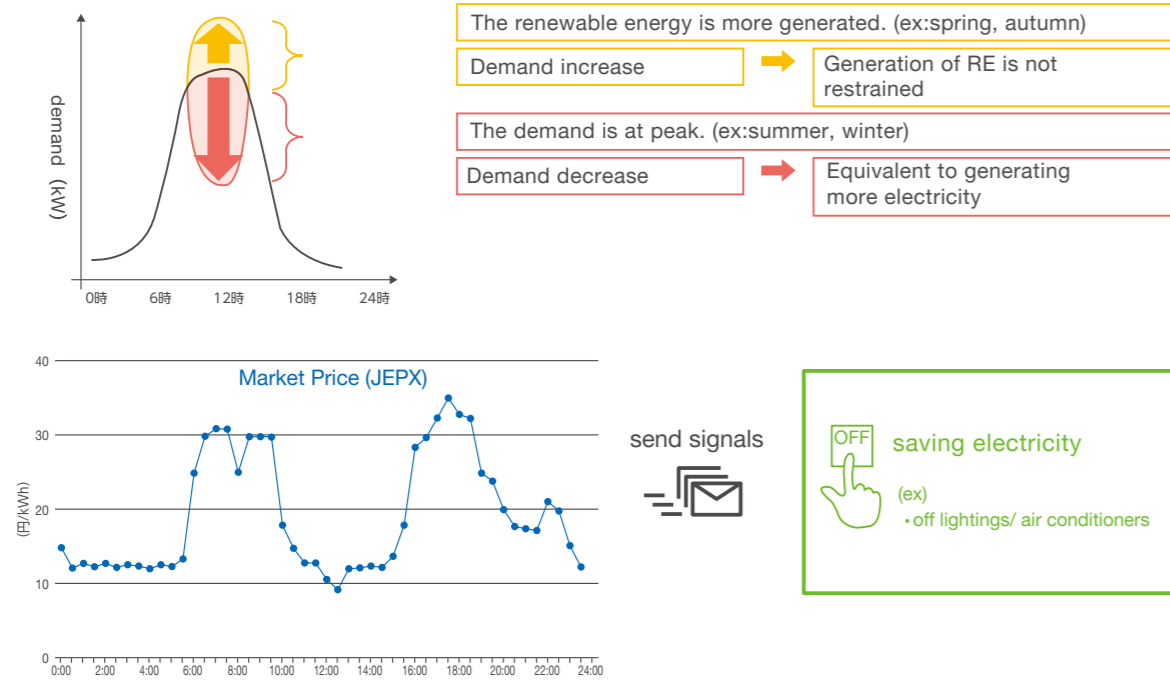


¹ Users need to pay the adjustments for fuel costs and the renewable energy surcharge.
² The value as of December 31, 2019.

*As of the end of March 2020, the Loop Gas service covers the areas specified by Tokyo Gas Co., Ltd. as the "Tokyo District, etc." (excluding Hitachi City).

Loop DR service

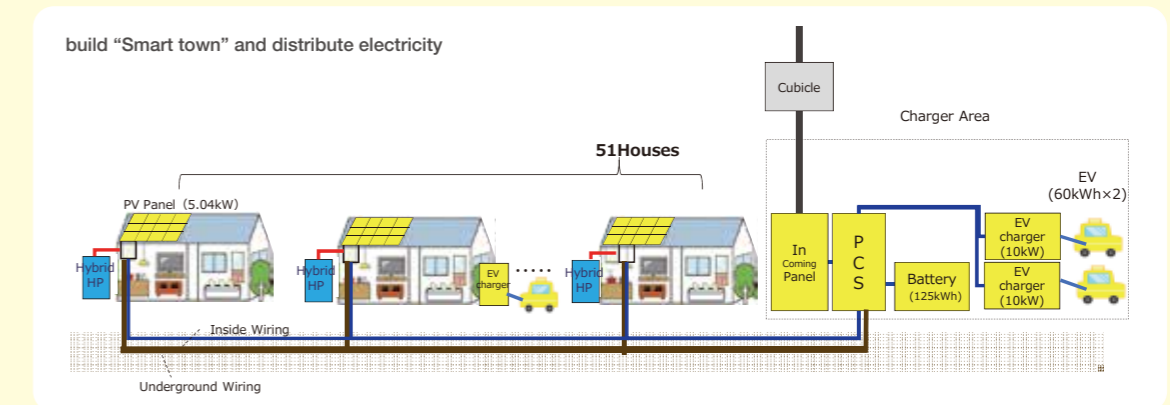
- We provide “demand response service” to our consumers.



Smart town at Saitama City

Project goals

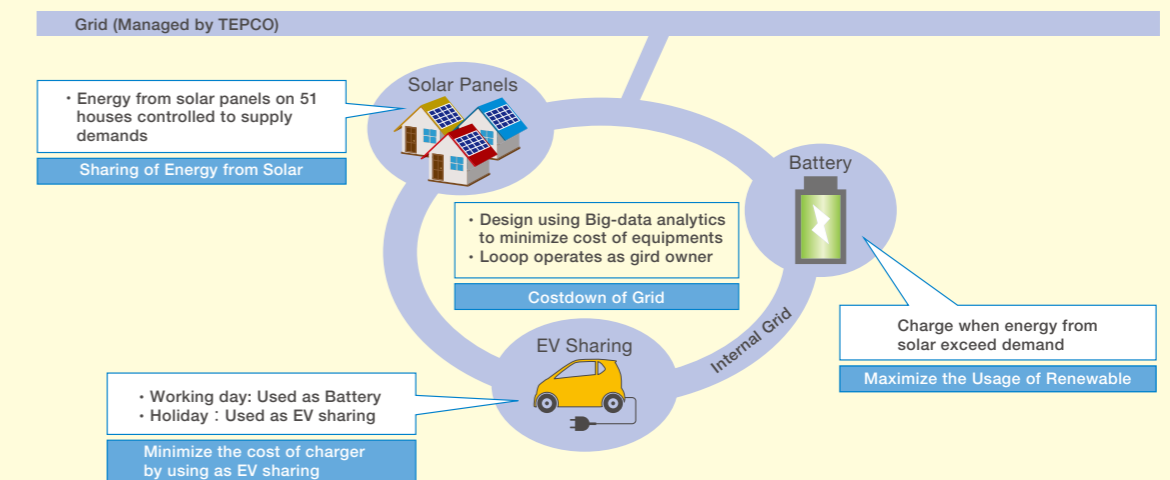
- Develop “Smart town” more decarbonised and more resistant to disaster in Saitama city
- Own and introduce a microgrid system and distribute electricity to each house
- Provide “decarbonised multi mobility sharing service”
- Refine and package this business model to spread nationwide



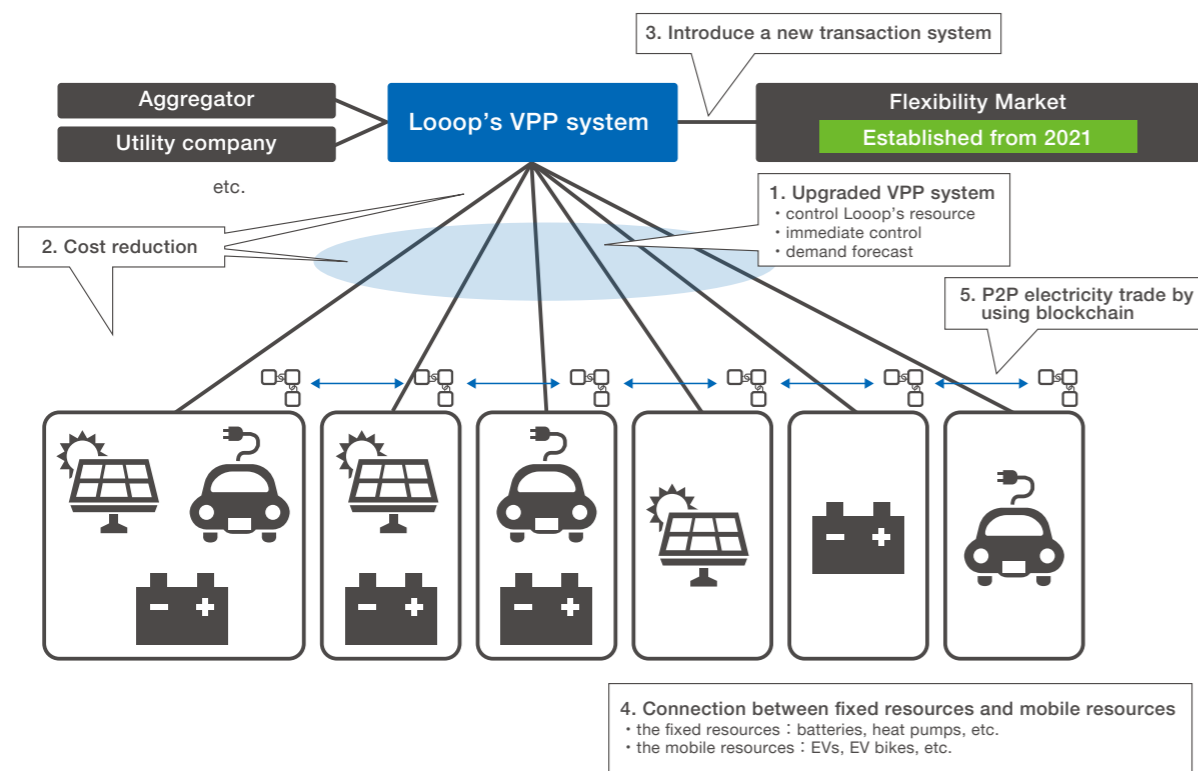
※This project is supported by government (Ministry of the Environment)

Solution

- Energy consumed in 51 houses built in smart town area are controlled by equipments in charger area (Battery, EV, etc..)
- Up to 60% of energy consumed is supplied by solar power (produced in this smart town)
- Designed with “Resilience (Energy can be supplied when the grid is down)”
- Internal grid is underground to achieve smart appearance



VPP System



Activities

Loop's Projects and Activities



Nasu Heights Project

Materializing what natural energy really is

We cannot live without energy. We use it every day, but we cannot feel truly familiar with it. Loop is working to build new facilities that allow you to feel natural energy close to you and change your negative image of solar power substantially, under the concept of a human- and earth-friendly energy. One of such initiatives is the Nasu Heights Project. Through the project, we encourage local people and families with children to learn, through enjoyable experiences, the value of nature and energy, so that they can understand Loop's intent in pursuing its natural energy business. Nasu Heights is a resort area rich in nature. We must not only protect nature, but also prevent the landscape from being damaged. We invited Hirokazu Suemitsu, an architectural designer known for his organic designs, notably in the theme of coexistence between nature and architecture, to design facilities for the project. Given that power generation business lasts for at least 20 years, we started the project under the concept of "a forest that grows, a forest that we grow," looking ahead to a long-span development. We examined the types of trees in the forest and their conditions. While restoring the forest to a good condition, we considered the colors and building layouts that would match the landscape. We made minute calculations for an efficient use of the sunlight, minimizing the amount of lumber cut out from the forest. We believe it is our mission to inform people of the essence and advantages of natural energy and to expand areas where we can coexist with nature.



Hirokazu Suemitsu,
Nasu Heights Project Producer

Born in Matsuyama, Ehime Prefecture in 1976, Suemitsu graduated from the Department of Architecture, the Faculty of Engineering of the University of Tokyo in 1999. In 2001, he completed the Master's Course at the Graduate School of Engineering of the University of Tokyo. Suemitsu worked for Toyo Ito & Associates, Architects from 2001 to 2006, where he was in charge of overseas projects, including those in Europe and Singapore. In 2007, he established SUEP with Yoko Suemitsu, and they were engaged in design activities in Japan and overseas, on the themes of the environment and energy. Hirokazu designs new organic architectures in which nature and building structures live in harmony, by fully using wind and thermal simulation techniques. At present, he is representative director of SUEP, Co., Ltd. and a part-time lecturer at Yokohama National University and the Graduate School of Tokyo University of Science. His works include Kyushu Geibunkan and Shiota Junior High School (Ureshino, Saga Pref.). He has won numerous awards: most notably, the Residential Architecture Award of 2009, the Tokyo Society of Architects and Building Engineers (for a house themed Kokage); the 27th Yoshioka Award in 2011 (for the House of Cave); and the JIA Sustainable Architecture Award of 2015 (for the Office of Wickerwork).



Loop Challenge Project

Expanding human beings' future infinitely in all directions

Loop is vigorously undertaking a wide range of activities, including local contribution and social activities, without adhering to the existing boundary of its businesses. As part of those efforts, we started the Loop Challenge Project in 2018 to support children's aspirations. In the first round of the series, we helped young soccer players participate in an international soccer competition for boys that took place in Singapore. Two hundred and twenty-four players from all over Japan participated in the domestic selection, and a team of 12 players who were selected to represent Japan competed with teams from other countries. We believe that their experiences of playing games in earnest and winning a victory on the world stage heightened their global sense and can-do spirit and widened their vision of the world. With the aim of expanding human beings' future infinitely in all directions, we will keep on providing youth and children who are working hard in various fields with opportunities on a worldwide level, and continue the activities to develop human resources who will cheer up Japan.



Loop is also working on other wide-ranging activities.

We are undertaking activities in various fields, both in Japan and overseas, that bring people closer to renewable energy, such as giving support to areas affected by typhoons, hosting booths at exhibitions in Japan and overseas, and holding events with the use of Loop's products.



Supported areas in the Philippines affected by Typhoon Yolanda.



Held a "potato-sharing" festival.



Opened a "Loop Enthusiasm School" for learning energy through hands-on experience.

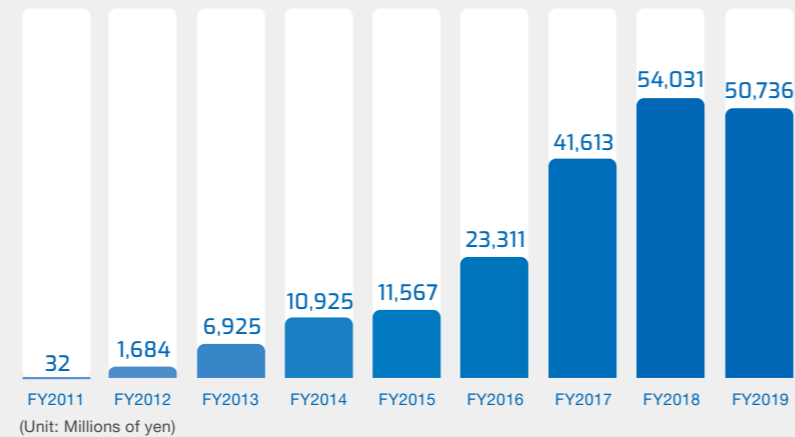


Won the Startup World Cup's Tokyo Regional Final

Loop's development & advance

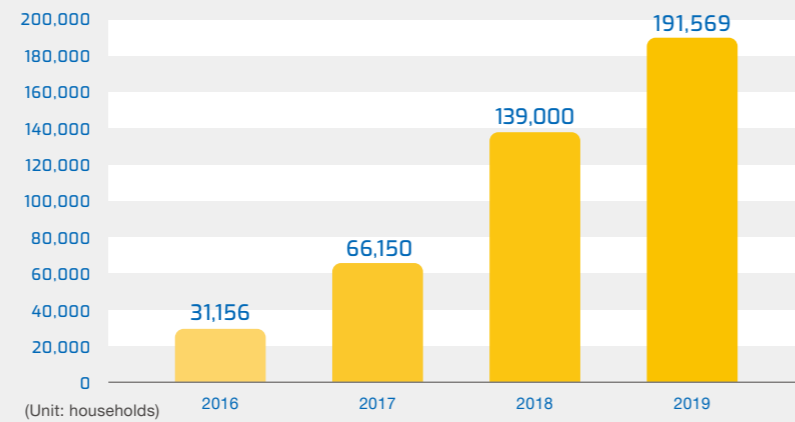
Sales Trend (consolidated)

Since establishment, our sales have been increasing year by year. We paid immediate attention to solar power generation as having a great potential, and have been developing our original businesses in line with the expansion of the market. Unique ideas and the ability to put them into action are the driving forces behind Loop's growth.



Loop Denki (low voltage) contracts

Since the start of the service in 2016, the number of our low-voltage contracts has been steadily increasing. As of the end of February 2020, we had a total of more than 200,000 contracts.



My Power Plant Kit® spreads all over Japan

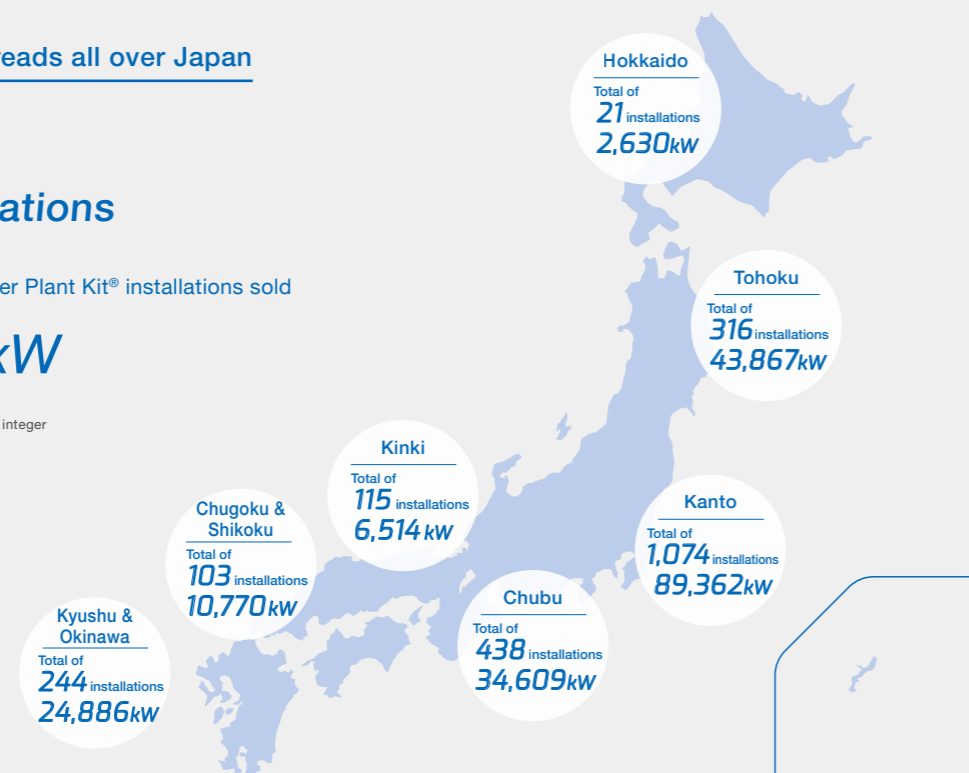
My Power Plant Kit® sales

2,311 installations

Total electric power of My Power Plant Kit® installations sold

212,637kW

*As of the end of February 2020; rounded to an integer



Company Overview

Company name Loop Inc.
Establishment April 4, 2011
Representative Soichiro Nakamura, President and Representative Director
Capital 3,669 million yen (capital reserve: 3,348 million yen) *As of the end of June 2020
Tel 03-4577-9001
Mail info@loop.co.jp
Website https://loop.co.jp

Business lineup

- Electricity retail business
- Various kinds of outsourcing business related to electricity retail
- Development, sale, installment, construction, management, and maintenance of solar power plant systems
- Installment and management of company-owned solar power plants
- Online sale of independent power producer systems and peripherals
- Planning, development, and sale of products that use natural energy
- Property insurance agency business [an agency of Mitsui Sumitomo Insurance Co., Ltd.]

Locations

In Japan
 Headquarters
 Ueno Frontier Tower 15F/22F, 3-24-6 Ueno, Taito-ku, Tokyo, 110-0005
 < Branches >
 Satellite Headquarters : Ueno, Taito-ku, Tokyo
 Hongo Office : Bunkyo-ku, Tokyo
 Hokkaido Branch Office : Sapporo, Hokkaido
 Fukushima Branch Office : Koriyama, Fukushima
 Nagano Branch Office : Suwa, Nagano
 Osaka Branch Office : Yodogawa-ku, Osaka
 Tokorozawa Logistics Center : Tokorozawa, Saitama

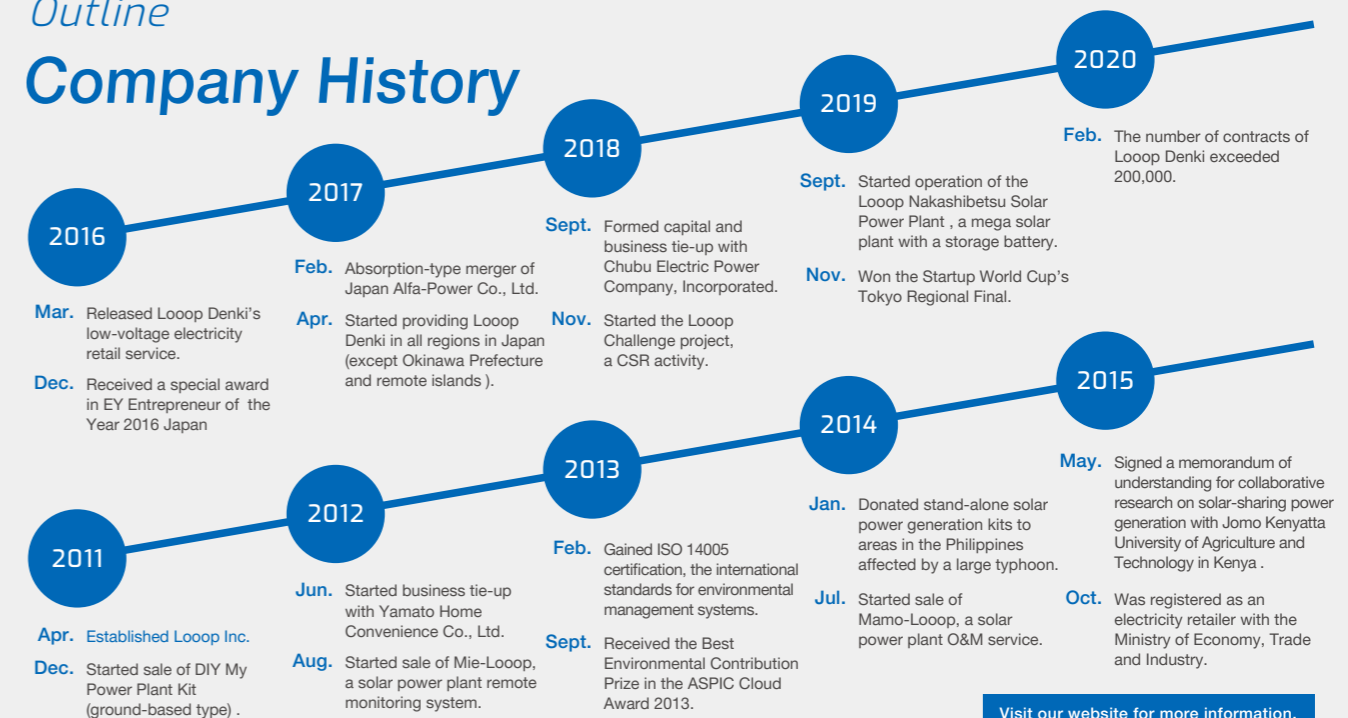
In Malaysia LOOP ENERGY MALAYSIA SDN. BHD.
 Registration number : 201701035159 (1249330-M)
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Mail info@loop.my

In Lebanon Loop MENA s.a.l (Holding) Loop Nova s.a.l
 Registration number : Loop MENA : 1903918
 Loop Nova : 1025603
 Property 2862/ Mossaytbeh, Kantari - Michel Chiha Street Beirut, Lebanon La Plaza Center, Bloc C, First Floor, Jal El Dib, Lebanon
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Outline

Company History



Visit our website for more information.