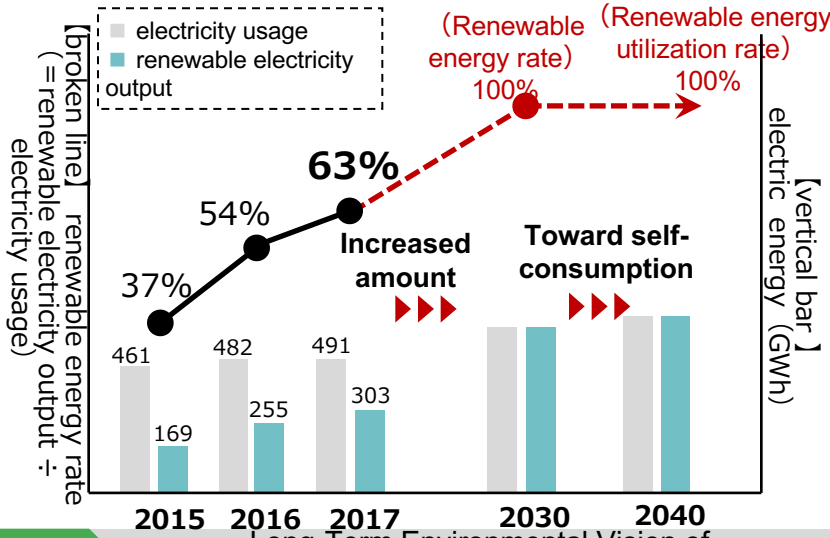
RE 100

◆Road map toward the RE100 achievement

Achieve RE100



Doubled Energy efficiency ＋ 100% Renewables

Long-Term Environmental Vision of Daiwa House Group

“Challenge ZERO 2055”

EP 100

- **Energy saving performance ▲53%**

  (Comparison to standard buildings)

  Introducing advanced energy-saving technology such as hybrid air conditioning system using well-water and solar thermal, etc.

- **Renewable energy utilization rate 100%**

  Built Japan’s first “net-zero energy office (self-sufficient office)” using combination of solar power system and storage battery.

2018/02

The Saga branch office of Daiwa House Industry Co.

Challenge "decarbonization" from both sides of internal activities and business

"Decarbonization" on internal activities
(carry out thorough energy-saving + renewable energy use)

SCIENCE BASED TARGETS

2℃ Targets Supporting Corporate version

※Certificated in August 2018

EP 100

Doubled energy efficiency

※Joined in March 2018

Daiwa House is the world's first company among the building industry to affiliate both EP100 and RE100.

&

RE 100

Renewable energy 100%

※Joined in March 2018

Positive spiral

"Decarbonization" on business
(construct "net-zero energy" house, architecture, and urban development)

For Nature by xevoΣ
– popularize net-zero energy house –

House

+

D's SMART series
– popularize net-zero energy architecture –

Architecture

+

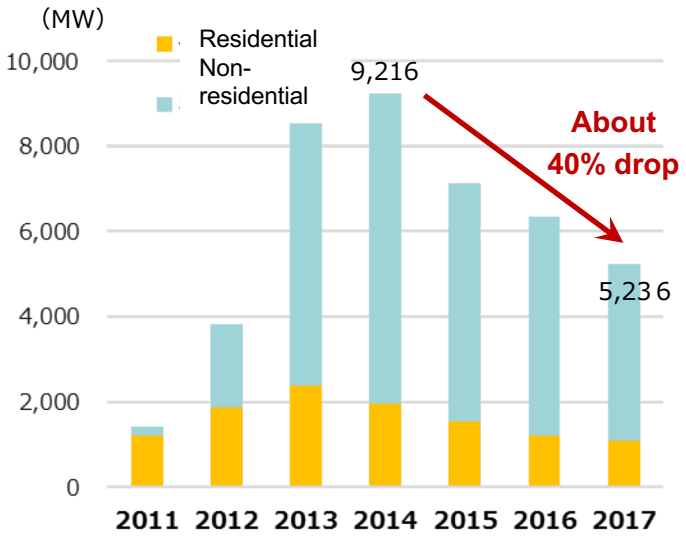
Smart city/town
– promote urban development –

Urban development

&

Environmental energy business
– Energy-saving, energy-making, energy-storage, electricity retailing –

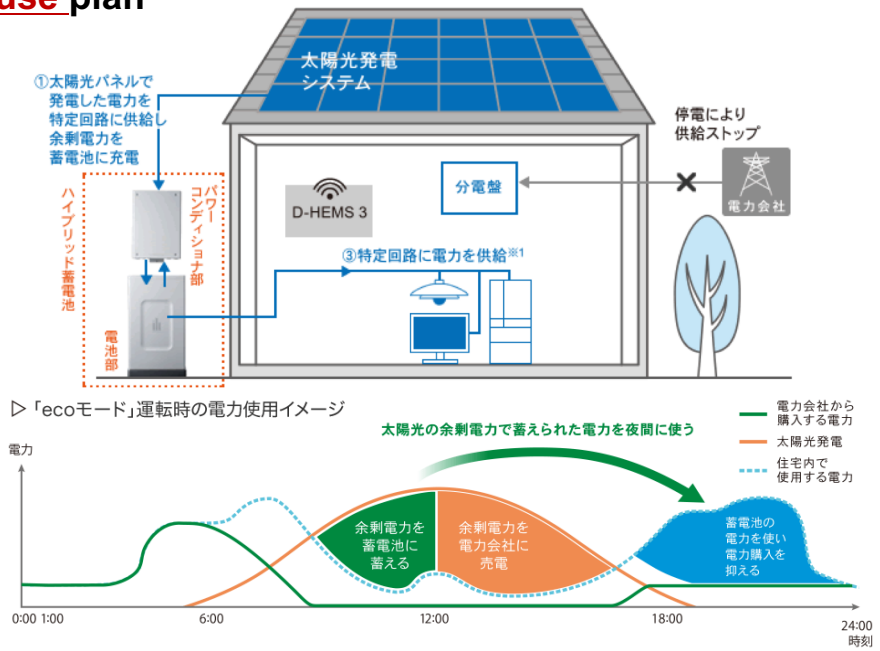
Transition of solar module shipment volume



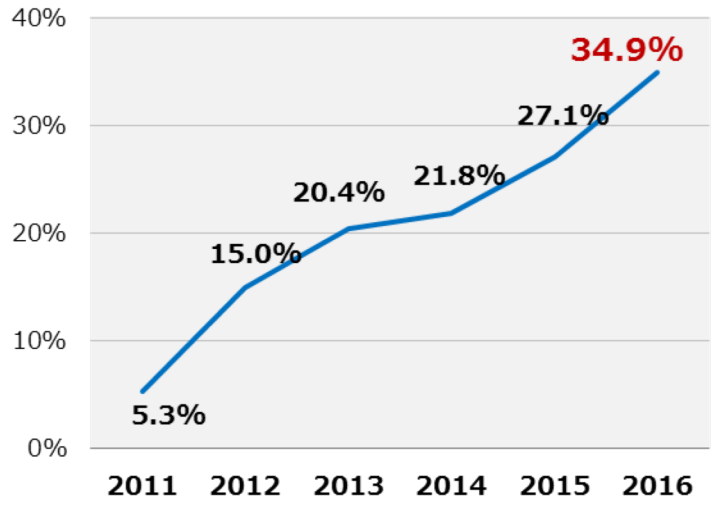
☞ by looking post-FIT・・・

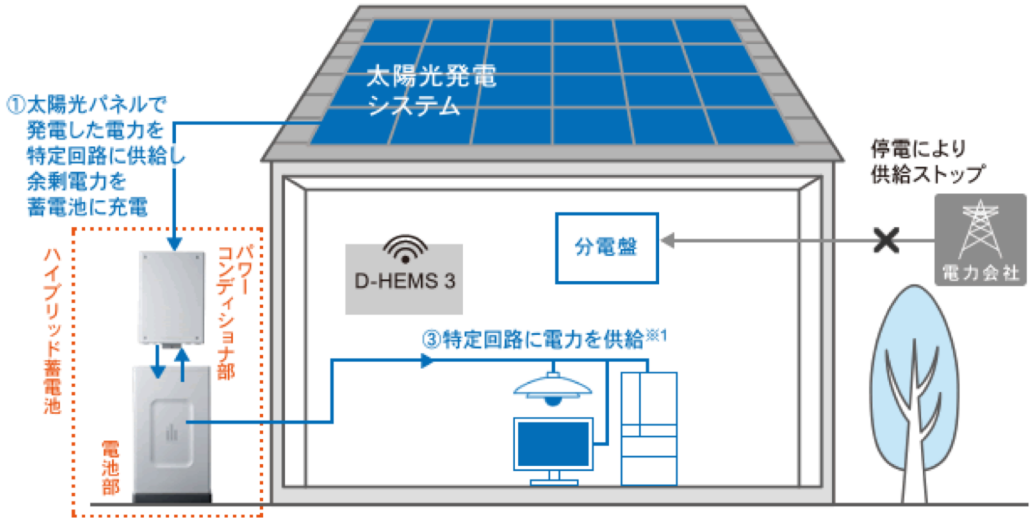
- **Supply side : devise suggestions**
  - ➡ High quality solution with new player
    (storage battery provider, IoT platformer, aggregator, etc.)
- **Market side : wise selection**
  - ➡ share best practice among market (consumers)
    (RE100, RE-Users, renewable energy 100% platform, etc.)

■ **Presentation of Daiwa House | Self-energy-sufficient house plan**



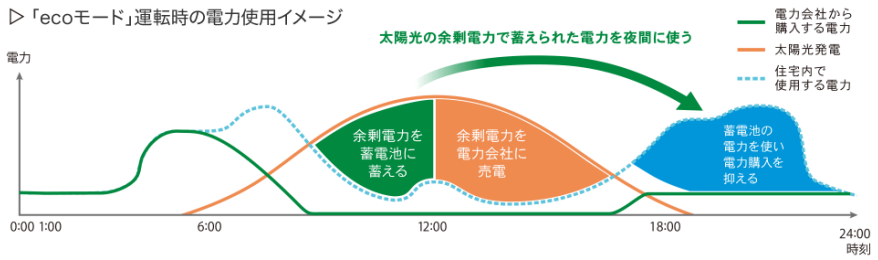
Lithium-ion storage battery installation rate (at individual house)





Solar Power System
Distribution board
Supply stopped due to power outage
Power company
1) Provide electricity generated by solar power system to specific circuit and charge surplus electricity to storage battery.
Power conditioner
Battery
Hybrid electric storage batteries

3) Provides power to specific circuit *1



Electricity usage during “eco-mode” operation
Use surplus electricity generated by solar power system, at night.
- green line: electricity provided by power company
- orange line: solar power system
- blue dotted line: electricity use in house.

Charge surplus electricity to storage battery.
Sell surplus electricity to power company.
Use electricity stored in battery and suppress electricity purchase from power company.

http://daiwahouse.co.jp/jutaku/smarthouse/charge.html