

DOCOMO Movie

- 00:02 \ We face a variety of challenges, living on Earth.
- 00:07 \ How can we stop global warming?
- 00:11 \ How can we achieve a sustainable society?
- 00:17 \ NTT DOCOMO Group aims to achieve carbon neutrality
in the course of its own business activities by 2030,
and net- zero carbon emissions across its entire supply chain by 2040.
- 00:37 \ At DOCOMO, we monitor and control energy resources,
including batteries, EVs and solar panels through our EMS.
- 00:48 \ Our initiatives are being developed around this DOCOMO EMS.
- 00:54 \ **【Green Base Stations】**
With the aim of reducing CO2 emissions at base stations,
we established green base stations.
- 01:03 \ DOCOMO's base stations, propping up nationwide communications, consume
around 3 billion kWh of electricity per year.
- 01:14 \ Green base stations are equipped with solar panels,
supplying the base stations with power,
while surplus power is stored in batteries.
- 01:26 \ Furthermore, the stored power is discharged at night
allowing the use of renewable energy.

【Demand Response】

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We also use DOCOMO's energy resources as a power business by implementing demand response.

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“Demand response” refers to consumers adjusting their power consumption to achieve a balance between supply and demand.

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When demand for power is high, DOCOMO receives a request to save power, prompting the EMS to discharge power from batteries at base stations and Docomo shops.

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Conversely, when there is surplus power, the system is controlled to charge the batteries.

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【Regional Energy Management】

Moreover, these power control technologies are being used by municipalities in “regional energy management” initiatives.

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Batteries deployed by municipalities for emergency use are monitored and controlled by the EMS with the aim of enhancing local disaster response capabilities.

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The batteries also discharge power during times of peak consumption in municipalities to suppress electricity costs.

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【Household Energy Management】

Furthermore, efforts are being made in household energy management.

03:01 This takes into account the variable cost of power at different times of the day, with stored power being supplied to homes at times of high cost.

03:13 At times of low cost, EVs are charged, and batteries are discharged to help manage peak power consumption.

03:25 On the other hand, we are researching and developing agents that encourage users to save power, relying on past data to change their behavior.

03:40 **【Electricity Demand Forecasts】**
We are also striving to prepare for energy management of the future through electricity demand forecasts.

03:48 Using weather information, past data on consumption, and human flow data obtained through smartphones, we are engaging in an initiative to forecast future demand based on our EMS.

04:05 We will integrate both internal and external energy resources through our DOCOMO EMS, and aim to manage energy throughout society.