

Osaka Gas and Panasonic to Conduct a Joint Field Test on Demand Response through Automatic Control of EV Charging
— Verifying the Potential to Develop Power Demand–Supply Balancing Capabilities through EV Charging Control, as Well as Participants’ Convenience and Acceptance —

March 17, 2026
Osaka Gas Co., Ltd.

Osaka Gas Co., Ltd. (Representative Director and President: Masataka Fujiwara; hereinafter, “Osaka Gas”) will conduct a joint field test (hereinafter, “the field test”) on demand response (hereinafter, “DR”) for charging of electric vehicles (hereinafter, “EVs”) in collaboration with Electric Works Company, Panasonic Corporation (hereinafter, “Panasonic”), with the aim of stabilizing the power demand–supply balance and realizing a carbon-neutral society.

The power supply capacity has become susceptible to weather conditions and other factors due to the growing adoption of renewable energy. Meanwhile, with the spread of EVs, household charging demand is likely to increase. Under these circumstances, the use of residential distributed energy resources, including EVs, is expected to contribute to stabilizing the power demand–supply balance.

Osaka Gas offers the DR Option, ^{*1} in which points are awarded in proportion to power savings, as an option for its electricity rate plans. This service awards points to users who cooperate to reduce electricity in summer and winter, when electricity demand increases, and to change the timing of electricity use in spring and autumn, when renewable electricity surplus often happens.

In the field test, Osaka Gas’s DR Option will be linked with Panasonic’s Home EV Charging Service app^{*2} and IoT EV outlets^{*3} to remotely control EV charging involving 50 detached homes in the Kansai area from June to December 2026.

Specifically, when users are requested to reduce electricity or change when electricity is used based on the DR Option, Panasonic will automatically control EV charging through IoT EV outlets, based on the charging plan created by Osaka Gas. After the control is implemented, Osaka Gas will verify the potential to develop the power demand–supply balancing capabilities through the control by analyzing the charging results in conjunction with the market price of electricity. Participants’ convenience and acceptance will also be confirmed.

From August 2024 to March 2025, Osaka Gas Marketing Co., Ltd., a subsidiary of Osaka Gas, and Panasonic conducted a field test to achieve optimal control in each house and implement DR of an entire house by controlling EV chargers, Ene-Farm cogeneration systems, electric home appliances, and other equipment.

The field test aims to further facilitate optimization by focusing on charging of EVs, which are likely to spread in the future. Through the field test, Osaka Gas and Panasonic aim to achieve a society where new electricity demand due to the spread of EVs can be flexibly adjusted without placing additional burden on customers.

The Daigas Group remains committed to developing technologies and services that help achieve a carbon neutral society to become a corporate group that contributes to further improving its customers’ daily lives and businesses.

- *1: Points earned through the DR Option service can be redeemed as either “My Osaka Gas Point” or “Sumai LINK Bonus”.
About the DR Option service: https://home.osakagas.co.jp/electricity/lp/setsuden_op/ (in Japanese)
- *2: The Home EV Charging Service app is available free of charge, but communication fees must be paid by customers.
- *3: The combination of Panasonic’s 200 V EV outlet and a separate IoT control module is referred to as an IoT EV outlet.

1. Flow of the field test

- (1) Osaka Gas creates a charging plan, which is linked with Panasonic’s service.
- (2) Customers are notified or requested to consume or reduce electricity via emails*4 from Osaka Gas or via Panasonic’s Home EV Charging Service app.
- (3) Charging is remotely controlled via Panasonic’s IoT EV outlet. (For comparison-based verification, customers perform manual control during a certain period.)
- (4) Osaka Gas estimates the potential to develop the power demand–supply balancing capabilities through the control by multiplying the charging results by the market price of electricity.
- (5) Osaka Gas awards points to customers.*4

*4 Limited to charging control opportunities of the DR Option service.

2. Overview of the field test

For details, including the eligibility and rewards for participation, refer to the webpage with an overview of the field test.

URL of the webpage with an overview of the field test: <https://www.og-web.jp/form/ev-trial/index.html> (in Japanese)

* The recruitment webpage will be closed after a certain period following the end of the field test period.

Objective of the field test	To verify the effect of DR through EV charging control as well as users’ convenience and acceptance
Number of households to be recruited	50
Recruitment period	March 17 to May 31, 2026 (planned) Applications will close once the maximum number of participating households is reached.
Field test period	June to December 2026 (planned)

<p>Eligibility</p>	<p>Those who meet all the conditions below (not fully specified)</p> <ul style="list-style-type: none"> ● Those who live in detached houses in the Kansai area ● Those who currently have or will have a contract with Osaka Gas for electricity ● Those who subscribe to or will subscribe to Osaka Gas's DR option service ● EV/PHEV owners ● Those who can install an IoT EV outlet ● Those who will not move out or cancel the electricity rate plan during the field test period <p>, etc. * For details, refer to the webpage with an overview of the field test.</p>
<p>Compensation</p>	<p>Amazon gift card worth 121,000 yen</p>
<p>Verification items</p>	<ul style="list-style-type: none"> ■ Potential to develop power demand–supply balancing capabilities for EV charging through DR ■ Verification of users' convenience and acceptance
<p>Roles</p>	<ul style="list-style-type: none"> ■ Osaka Gas Supply of electricity to participants of the field test, provision of the DR Option service, and formulation of the DR plan ■ Panasonic Provision of a remote control platform (equipment, systems, and an app) Implementation of remote control, and acquisition of EV charging data