

Press release

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Vattenfall Netherlands launches V2G pilot with Kia and Hyundai

Together with Kia and Hyundai, Vattenfall is launching a pilot for bidirectional charging (Vehicle-to-Grid, V2G). This allows electric cars not only to store electricity, but also to feed it back into the electricity grid in a controlled way. In the trial, the cars will serve as flexible energy storage, helping to keep electricity supply and demand better balanced.

The pilot is intended for up to 80 selected households with a Kia EV9 or Hyundai IONIQ 9. During the pilot, they will receive a bidirectional charging point, including installation. Over the six-month pilot, the kWh charged at home will be reimbursed, up to a maximum of €500. By controlling the charging and discharging of their car batteries smartly and automatically, the pilot will examine whether electricity can be used more efficiently, for example by deploying it at times of scarcity.

Kia and Hyundai are providing the cars, the charging technology and an app that gives participants insight into their car's charging sessions. Vattenfall will manage the charging and discharging and ensure that the cars automatically respond to electricity demand. This means electricity can be fed back into the grid between 4.00 pm and 9.00 pm, when demand is at its highest.

“Electric cars are stationary for most of the day,” says Jeroen van Loon, Director of Customer Solution Development at Vattenfall Netherlands. “At the same time, they have a large battery: whereas a home battery is usually around 10 kilowatt-hours, an electric car can easily have 50 to 60 kilowatt-hours of storage. In this pilot, we are exploring how we can unlock the flexibility of this new generation of cars and gain experience with an energy system that can better adapt to supply and demand.”

For participants in the pilot, little will change in the day-to-day use of their car: they set their own preferences, such as departure time or the minimum battery percentage, while their car battery can help contribute to a more stable electricity grid.

Only available for dutch customers with a Kia EV9 or Hyundai IONIQ 9. If you are interested in the pilot please contact Kia Netherlands and Hyundai Netherlands.

For more information, please contact:

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