Hankook Electric Power Information Co,

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major business	Support for participation in the demand resource trading market and support for participation in the small distributed resource trading market Solar power estimation, load usage pattern analysis, ESS condition monitoring solution		

We support resource holders to generate profits while participating in the national energy policy as platform users, by operating a platform that aggregates distributed small-scale energy production and consumption resources. With the goal of "Energy in my hands," we are developing a platform service that allows anyone to easily reduce carbon emissions. We will spare no efforts to help our customers put into practice the spirit and effort to preserve the integrity of the earth to be passed on to future generations. We will create a happy Earth together with our HEPI-VPP Platform customers.

Products

Weather and environmental data collection IoT

Use	Predicting/estimating solar power generation
	- Determining whether there is an abnormality in performance tracking through cloud service
	- Analyzing potential solar power resources
Description	By collecting precise weather and environmental data of the area,
	- Improve the accuracy of predicting real-time volatility of solar power generation
	- Determine whether there is an abnormality by estimating the output of solar power facility power generation

Distributed resources (solar power, wind power, geothermal heat, fuel cell, ESS, SMR, etc.) integrated operation VPP (virtual power plant) platform

Use	Platform to integrate distributed energy and operate like one large generator
Description	Distributed energy integrated resource management, status monitoring Energy generation pattern analysis and prediction Collection of data on characteristics of distributed resources using IoT sensors Real-time status monitoring for ESS fire prevention Energy efficiency through analysis of collected data

Technical Capacity

» **Weather and environmental data collection IoT**
Transmit weather environment information to the cloud system and predict/estimate solar power generation using the cloud AI system

» **Photovoltaic(PV) VPP platform**
Generate stable power generation profits and spread energy conversion through efficient consumption of renewable energy

» **LDR VPP Platform**
Calculate reduction capacity by analyzing demand resource usage patterns

» **Energy Storage System(ESS) VPP Platform**
ESS battery status monitoring and charge/discharge control