Tokyo demand response



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Through cooperation between industry and academia, Waseda University and TEPCO HD will formulate an open & close strategy for creating a market environment that contributes to the stabilization and regulation of power usage in consumer devices in areas that have a low-voltage demand (low-voltage resources*1), thereby contributing to the creation of a carbon neutral society.

By establishing directives, offering fee options, and using grid-based storage batteries, the TEPCO Group provides economic value to its customers through DR for customers with facilities that demand high-voltage resources*4.

However, by utilizing low-voltage resources installed in households, which have an overwhelming amount of equipment, as DR devices, it is possible to maximize the use of renewable energy. Therefore, the Plan entails the formulation of an open & close strategy for creating a market environment that contributes to the use of low-voltage resources as stable power sources and for power output adjustment purposes, thereby contributing to the creation of a carbon neutral society.

EMAIL ADDRESS*

Most government energy policies focus on supply, but as energy systems shift to renewables, adjusting demand for electricity will become just as important. Fortunately, this is an area that Japan has experience in, and it's expected to develop significantly in 2024.

On March 22, 2022, consumers in eastern Japan, including the Tokyo area, were asked by the government to drastically reduce power usage. This came a week after a 7.4-magnitude quake off the Fukushima coast that triggered a shutdown of numerous thermal plants. After an immediate loss of power to 2.2 million homes in central and northern Japan, the situation soon recovered.

Then suddenly came a bout of unseasonably cold weather that threatened to overwhelm the energy grid. This situation was resolved thanks to a now familiar practice of setsuden, or appeals for energy conservation from the government and power utilities. The approach has been used numerous times in the past - most famously after the March 11, 2011 earthquake and tsunami that also sparked the Fukushima nuclear accident. Despite a scorching summer in 2011, demand for electricity in the Tokyo area registered volumes of close to a quarter

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below a year earlier.

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