

## Site construction/demonstration environment creation

In order to demonstrate this system through experiments and testing, we constructed a demonstration system as well as five demonstration sites.



## • Total quantity of DR resources

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List	Site Name (honorifics omitted)	Connection category	Туре	Adverse current?	Covered area	# of EVPS	Outlander PHEV	Leaf	i-MiEV	kW	kWh
A-1	Shizuoka /Yoshihara base	Low voltage	V2G	Y	Tokyo	5	1	4		30	172
A-2	Shizuoka /Tobu Branch	Medium voltage	V(2B)2G	Ν	Tokyo	2	1	1		12	52
В	Mitsubishi motors/Okazaki Plant	high-voltage	V(2B)2G	Ν	Chubu	50	50			300	600
С	Yokohama City, Public Works Office, Asahi Branch	Medium voltage	V(2B)2G	Ν	Tokyo	1			1	6	10.5
D	Shinjuku District site	Low-voltage	(V2G)	Y	Tokyo	1	1			6	12
Total						59	53	5	1	354	846.5

## <Demonstration achievements>

• We were able to simultaneously control multiple sites thereby verifying that synchronized control is possible

 $\cdot$  We assessed the degree of impact on voltage fluctuation during charging/discharging based upon the predicted penetration rate of EV/PHEV over a cross-section from FY2030/50

11/7 (Wed) Example of reaction when a command was given (10:00:00)

