

Japan Kagoshima Field Test Data Released: TOPCon Achieves 8.82% Long-Term Energy Yield Gain Over N-Type BC Modules

(DC) data were collected using the high-precision CR1000X

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From October 1 to December 31, 2024, the performance of

reached 294.2 kWh/kW over the three months, compared to 270.2 kWh/kW for N-type BC modules. On average, the

Month	N Type TOPCon Normalized Energy Yield kWh/kW	N Type BC Normalized Energy Yield kWh/kW	Gain Per Watt
	100.6	91.9	9.46%
	93.2	86.9	7.17%
	100.4	91.4	9.84%

irradiance levels were below 1000 W/m². Under these condi
ules reached 8.05%. Under high irradiance conditions (above 1000 W/m²), the total three-month energy yield of TOPCon modules was 174.04 kWh, with a yield gain per watt of 8.10%

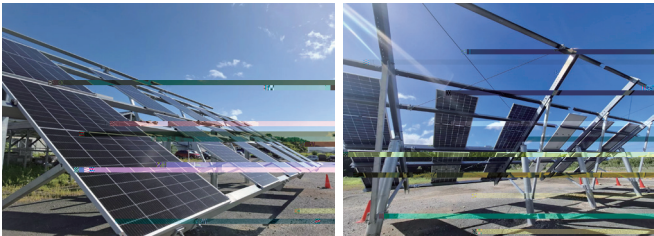


Figure 1 :

Base in Japan (32° 3' 57" N, 130° 19' 53" E). Two types of modules

facturer installed on fixed mounts at a height of 1.2 meters

97.8%, while that of N-type BC modules was 89.9%. This demon

