

3D地形図による風況解析を用いた大規模太陽光発電の発電効率の予測

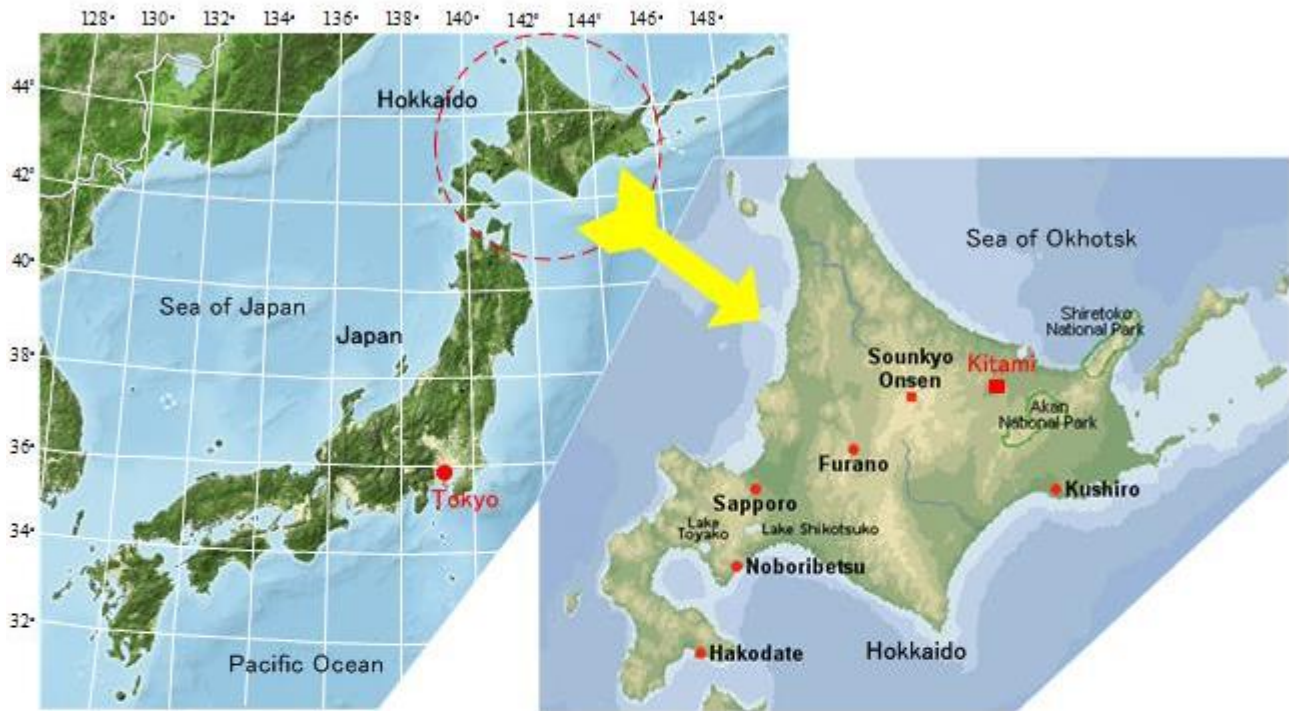


Fig. 4 Kitami city

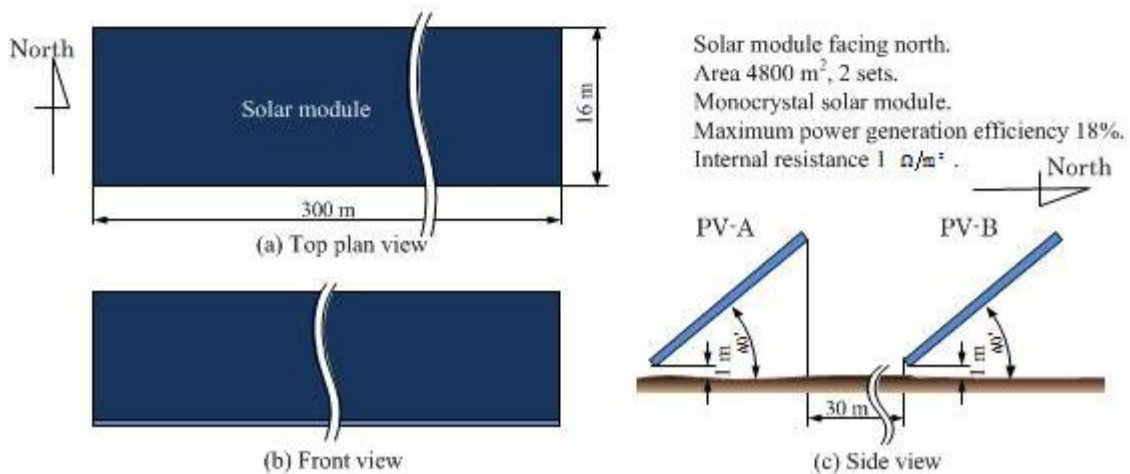
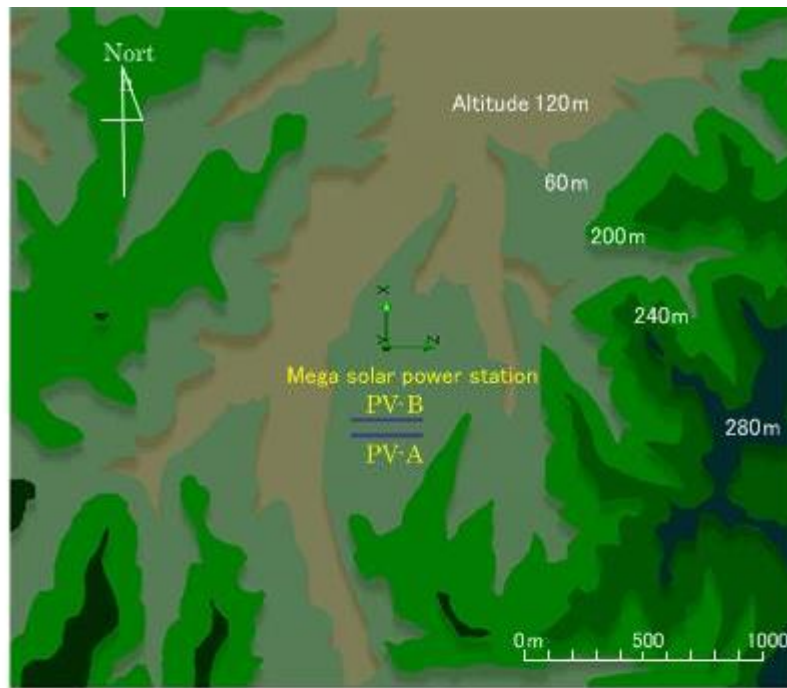


Fig. 5 Schematic layout of the mega solar power generator



Top plan view

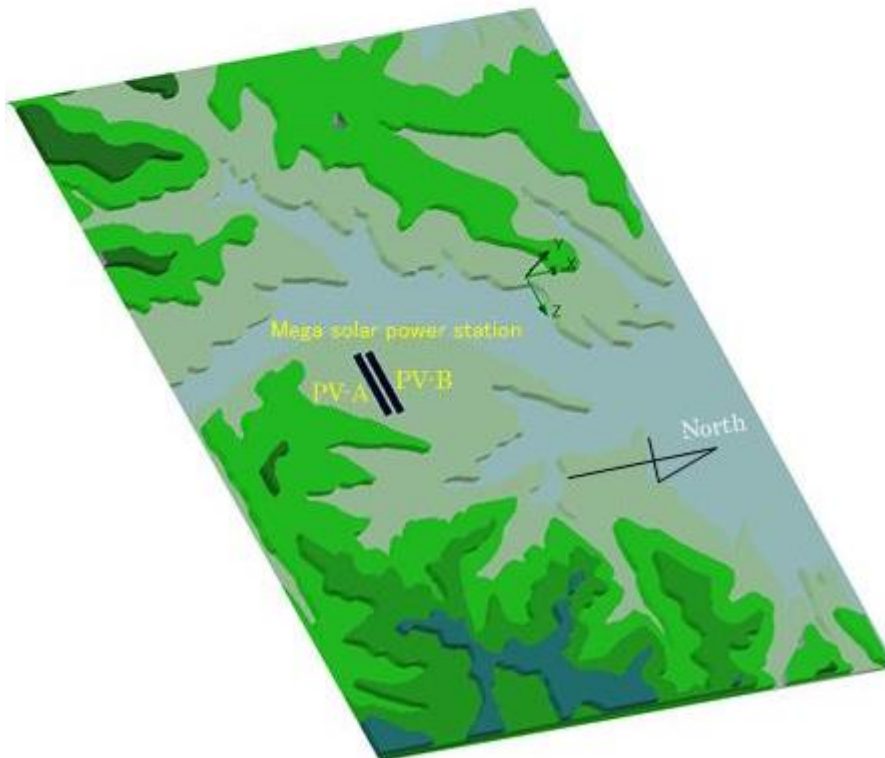
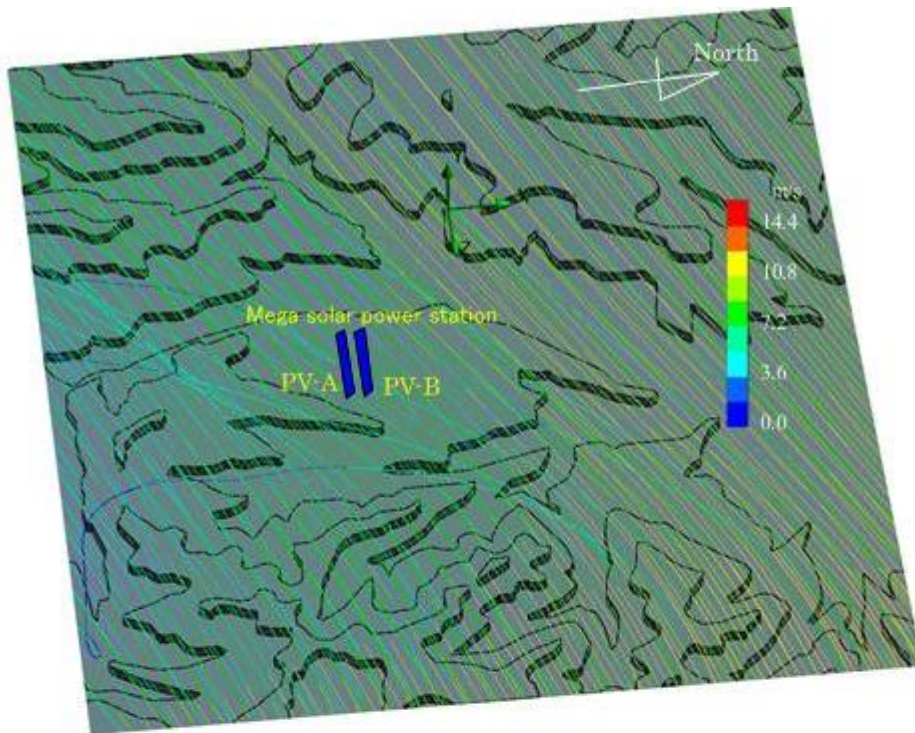
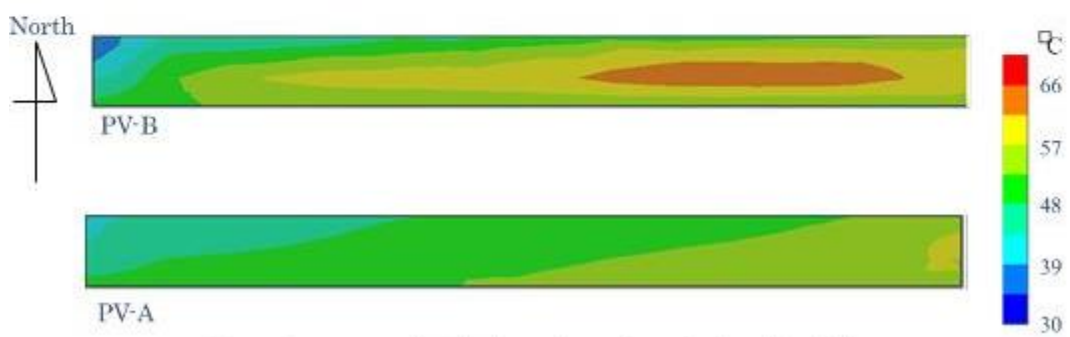


Fig. 6 The former site of a racetrack in Kitami

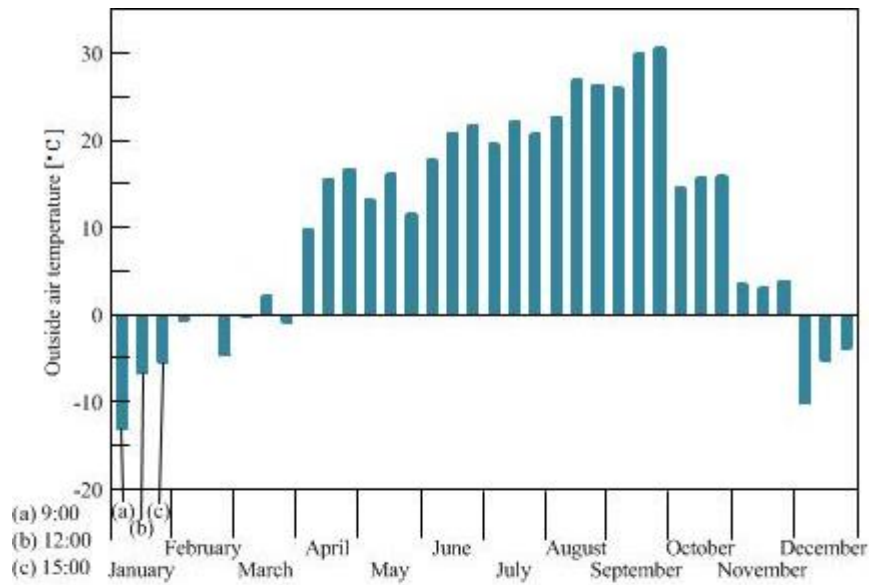


(a) Line of flow

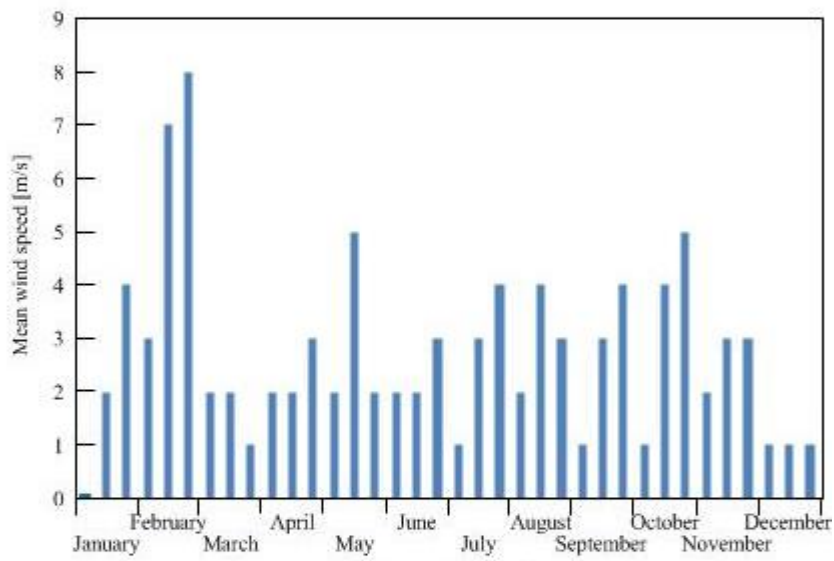


(b) Temperature distribution on the surface of solar cell modules

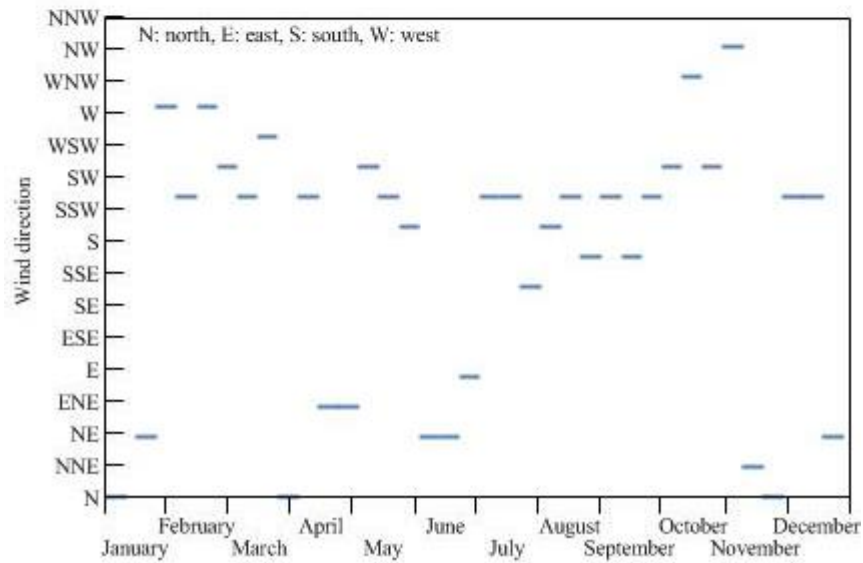
Fig. 10 Analysis results of the line of flow and temperature distribution on the surface of solar modules (12:00, August 15, direction of wind ENE, wind speed 10m/s, outside temperature 20°C)



(a) Outside air temperature



(b) Mean wind speed



(c) Wind direction

Fig. 7 Meteorological data of Kitami city

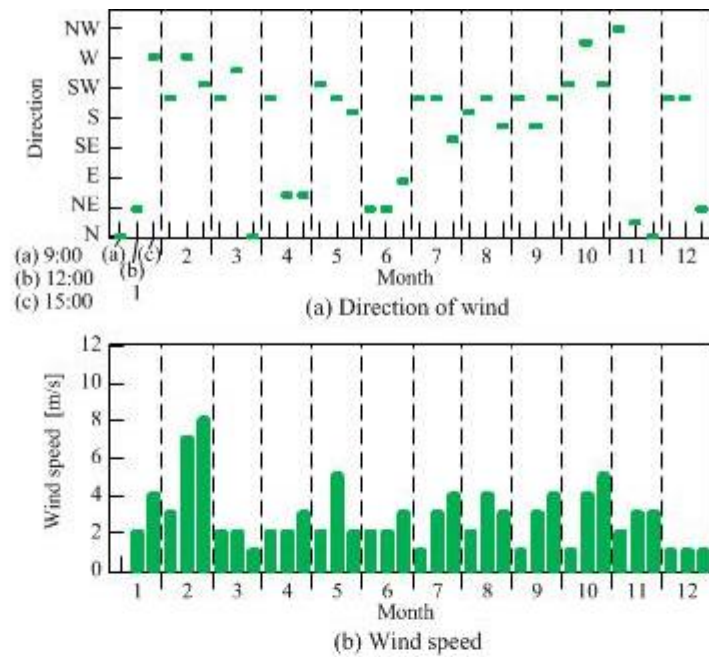


Fig. 14 Analysis conditions of the wind for the flat ground

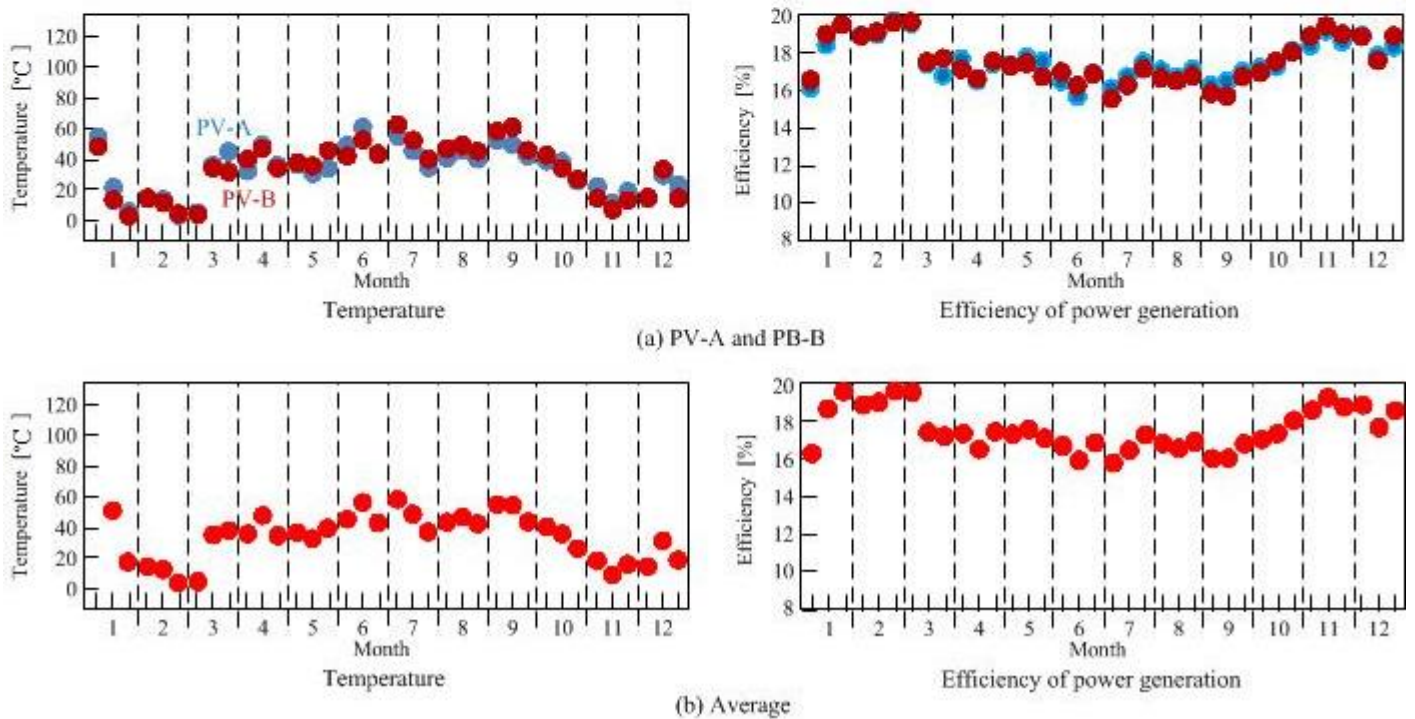


Fig. 15 Analysis results for the flat ground