

# Predictions of Warming due to Increasing CO<sub>2</sub> and Historical Temperatures

Predicted Temperatures	World	Global warming of 1.5°C and 2°C will be exceeded during the 21st century unless deep reductions in CO <sub>2</sub> and other greenhouse gas emissions occur in the coming decades* <sup>1</sup>
	Japan	<b>Rising 0.5 to 5.4°C by 2100*<sup>2</sup></b> ○RCP 2.6 scenario (lower stabilization scenario: assuming that the temperature rise is kept below 2 °C): 0.5 to 1.7 °C rise ○RCP 8.5 scenario (high-level reference scenario: assuming no policy mitigation measures): 3.4 to 5.4 °C rise (RCP scenario is a scenario calculated from the idea of the concentration of greenhouse gases to be stabilized in the future, assuming policy mitigation measures)
Historical Temperatures	World	Rising at a rate of about 0.77°C/100 years* <sup>3</sup>
	Japan	Rising at a rate of about 1.40°C/100 years* <sup>4</sup>