

# Solar panels for electricity

In 2012, Wellington City produced an estimated 2 GWh of electricity through the use of solar photovoltaic panels ('solar PV'). This assumes 1.5% of households had solar PV panels, which covered an average area of 5.3 m<sup>2</sup> per household. The total area of solar PV panels on commercial buildings was assumed to be 1000 m<sup>2</sup>.

## Level 1

Level 1 assumes that the fraction of Wellington households with solar PV panels stays constant at 1.5%, while other non-residential installations total 15,000 m<sup>2</sup>. This would more than triple the current amount of electricity produced by solar PV.

## Level 2

Level 2 assumes that by 2050, 11% of Wellington households have solar PV

panels, and that other installations total 36,000 m<sup>2</sup>.

## Level 3

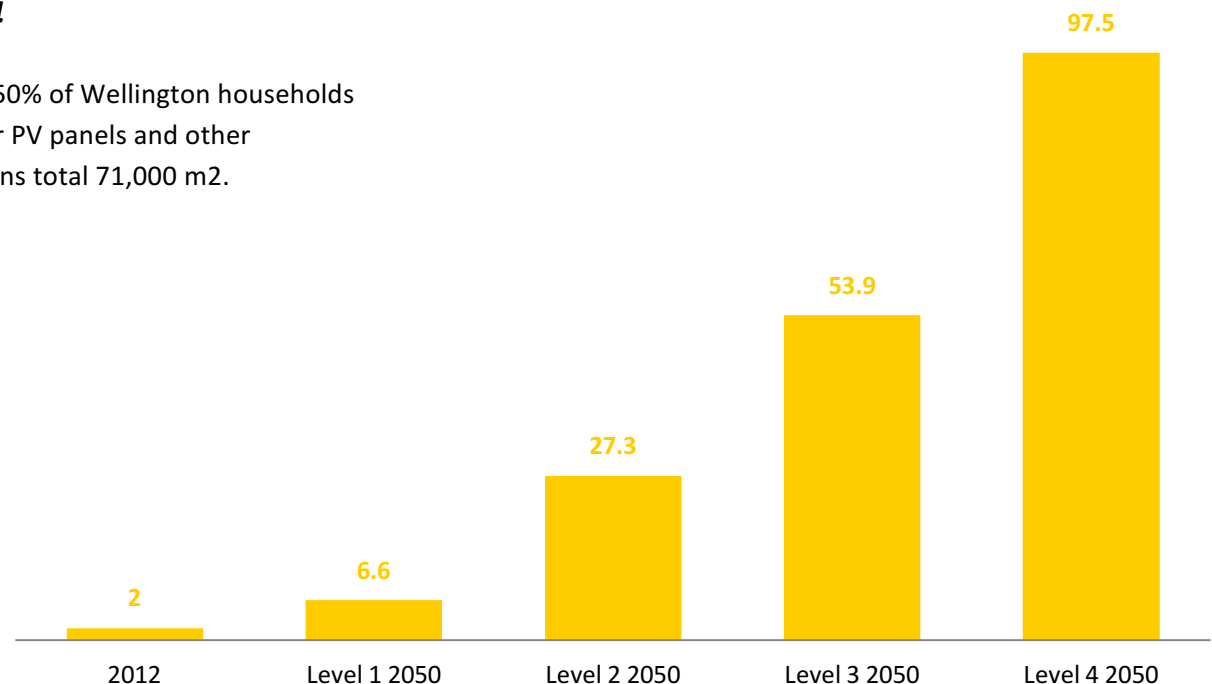
Level 2 assumes that by 2050, 25% of Wellington households have solar PV panels and other installations total 53,500 m<sup>2</sup>.

## Level 4

By 2050, 50% of Wellington households have solar PV panels and other installations total 71,000 m<sup>2</sup>.

## Interactions with other choices

Selecting level 4 on this lever at the same time as selecting level 4 on the 'Solar panels for hot water' lever may yield an unrealistic result, as the two will be competing for roof space.



Electricity supplied by solar PV (GWh/yr)