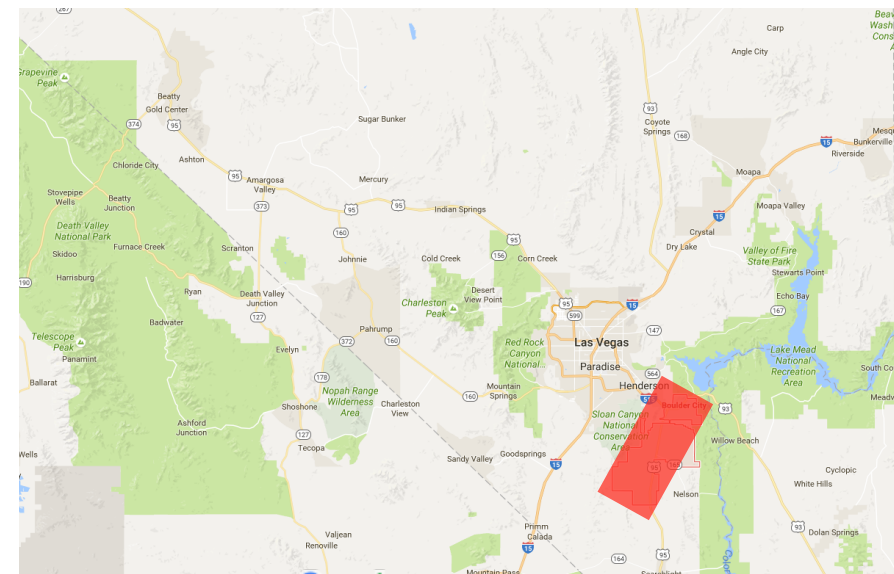


# Rooftop Solar Photovoltaics

In 2015, Nevada had 130 MW capacity of installed solar panels on (commercial and residential) rooftops which produced 23 MW of power averaged over that year. In 2015 Nevada had 50 km<sup>2</sup> of rooftop (16 m<sup>2</sup> per resident) that could be used for solar generation. Nevada currently uses less than 1 km<sup>2</sup> of rooftop for solar generation (less than 2% of the available resource).

The area of land based solar farms required to deliver 4.5 GWe is 450km<sup>2</sup> or 70% of the area of Lake Mead (shown in blue on the map); comparable to the land area of Boulder City, Nevada, (shown in red on the map below).



## Level 1

Level 1 assumes that rooftop solar does not grow at all in Nevada but stays frozen at 2015 levels.

## Level 2

Level 2 assumes that solar PV produces 1.9GWe in 2050. This would be an 80-fold increase compared to 2015.

## Level 3

Level 3 assumes that Nevada solar photovoltaic rooftop production reaches 2.5 GWe in 2050. This is roughly half of all South-facing roofs in Nevada.

## Level 4

Level 4 assumes that 150 km<sup>2</sup> of rooftop solar PV delivers 4.5 GWe by 2050.

