

# Aurora (Port Augusta) Solar Thermal Project

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Carriewerloo Road  
Carriewerloo, South Australia 5715  
Australia

SolarReserve is planning to construct the largest single-tower solar thermal power plant in the world at Carriewerloo Station about 30 kilometres north-west of Port Augusta in South Australia. The 150MW plant will consist of about 12,000 “billboard-sized” mirrors, each measuring 100 square metres, arranged in a circle over an area of about 600 hectares. The mirrors will focus light to heat molten salt to 565°C at the top of a 227 metre tall tower, which will be the tallest of its kind in the world. The hot molten salt will be used to produce steam to drive generators. The molten salt will be able to store 1100 MWhr of energy - sufficient for about eight hours generation at full load. So that the plant will be able to continue producing electricity when the sun is not shining. The power station is planned to begin operation in 2020. The project is expected to cost \$650 million, including \$110 million from the Commonwealth Government. It will deliver power at \$78 per MWhr. In May 2018, Solar Reserve sought approval to add a 70MW solar PV farm to the project. In March 2019, SolarReserve announced that it was unable to get financing for the project.

Company: SolarReserve  
Capacity (MW): 150  
Status: Cancelled  
Technology: Solar Thermal  
Fuel: Solar  
Estimated Output: 495,0000  
Source of Information: South Australian Government press release (August 2018)

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