



# SC03 Compliant Solar Testing

Our Climatic Wind Tunnel (CWT One) features a SC03 compliant solar array which allows customers to carry out climatic testing to a wide range of environmental conditions.

The facility allows OEMs to simulate real-world conditions to help improve fuel consumption and work towards many credit systems such as:

- **MERC**  
(US Mobile Emissions Reduction Credit)
- **GHG**  
(Green House Gas credits)
- **CAFE**  
(Corporate Average Fuel Economy credits)

Utilising HORIBA emissions test equipment, our unique capability provides customers in the UK and Europe with a valuable insight into how to gain MER Credits.

The CWT One facility can accommodate a wide range of vehicles and features a 6000mm x 2000mm irradiation area, allowing customers to also perform AC pull down and passenger comfort testing programmes.

## Solar array capability

- Maximum output of 1400 W/m<sup>2</sup> at the bulb, giving a maximum irradiation power in the reference area of 1200 W/m<sup>2</sup>
- Irradiation volume 1m - 2m from the ground
- Uniformity in the reference area
- ±10% irradiation volume
- ±5% stability of solar simulation system over 8 hours
- System features 18 x Osram HMI 4000 W bulbs and can be programmed to follow a set solar loading pattern throughout a test



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