

## **Nemesis - Zero Carbonista Electric Vehicle**

Ecotricity, the energy generation company dedicated to investing in clean, renewable energy sources, approached Ian McDonald in order to identify a number of delivery options in designing a zero emission, high performance sports car powered purely from energy. The energy would be coming from a 100% zero emission generation source - namely the iconic Ecotricity wind turbines seen beside many of the countries main arterial roads.

Subsequent work on the programme included risk mitigation studies, supplier selection, DFMEA studies and technical support with respect to battery and charge integration.

Successful shakedown trials of the vehicle began at the beginning of Q2 2009.

In addition, Ian McDonald prepared a successful bid for additional funding for a further two vehicles, as part of the TSB Low carbon demonstrator programme. Build will start Q1 2010.

## **Ecotricity Vehicle specification**

Motive power: 2 UQM traction motors with power delivered to rear wheels via bespoke transmission system.

Batteries: 96 Li-ion polymer pouch cells enclosed in a carbon composite, liquidless heat management module.

Top speed In excess of 100mph

Range:  $\geq 120$  mile

Chassis: Extruded Aluminium

Body: Composite - light weight architecture

Additional: Up-rated brakes, instrumentation, DC-DC and electrification of ancillaries

