



Country Update South Africa

Funding Update:

Fuel Cell Funding for 2017/18 financial year (1 April to 31 March 2018)

- Government: **R89.6 million (USD 6.23 million)**
- Private Sector Funding: **R2.5 million (USD 174k) towards HySA**
- Other Private sector fuel cell projects: **R20.5 million (USD 1.4 million)**



Country Update South Africa

Insights into the Direction of Developments in your Country

Moving towards specific sector budget allocations:

- R14.6 million (USD 1million) toward stationary fuel cell development
- R31.1 million (USD 2.2 million) for mobile fuel cell application
- R18.5 million (USD 1.3 million) for hydrogen production, storage and distribution

Special Economic Zone (SEZ) for Fuel cell Manufacturing

- Establishing a special economic zone alongside the Refinery in Springs, Ekurhuleni for fuel cell manufacturing
- The aim of the SEZ is to support local fuel cell manufacturing.



Country Update South Africa

Ongoing Projects (1):

Material Handling

- Development of a local power module for integration into a 3 tonne fuel cell forklift
- A further 2 fuel cell forklift demonstrations planned.

Transport

- Integration of a high temperature PEM fuel cell in an LHD with a methanol/water fuel source and refueling station for underground operation
- Integration of a high temperature PEM fuel cell in a bus with a methanol/water fuel source and refueling station
- Fuel cell bus demonstration within a metro commuter route. Phase 1 pilot to comprise of 4 buses followed by 4 to 10 buses in phase 2.



Country Update South Africa

Ongoing Projects (2):

Stationary

- An 8.8 MW Phosphoric Acid Fuel Cell System with natural gas for stationary power supply to a Refinery
- The 8.8 MW system is phase 1 of the 18 – 22 MW phased approach to take the Refinery off grid.

Catalyst Development

- Combined HySA Catalysis, Mintek and Impala project to build South African capacity in Pt/C catalyst and MEA manufacturing
- The project has been successfully up scaled to 3kg batches
- Next phase is to consider 10kg catalyst manufacturing.

Opportunities for areas of collaboration with other IPHE members

- Hydrogen refueling infrastructure to support deployments in the transport sector
- Hydrogen production, storage and distribution technologies.