



## IPM Facility at the OR Tambo SEZ

IPM has completed a four-storey state of the art industrial facility (one of the biggest in the world) at the OR Tambo Special Economic Zone (SEZ) to produce PGM catalysts and MEA's for fuel cells and electrolyser which can be used to provide local content for electrolyser and FCEV deployment in SA. The facility will be ready for plant commissioning from October 2024 and will be green to the maximum extent possible, with the full roof area designated for solar panels.

The project will take PGMs from SA platinum mines and at full deployment will beneficiate it into MEA's for FCEV and electrolyser at a rate of 3 million units per annum. We will also be able to convert PGMs into PGM chemicals and thereafter into PGM catalysts for fuel cells and electrolyser.

### Ground Floor



### 1st Floor - Catalyst Production & Recycling



### 2nd Floor - MEA Testing & Laboratories



### Roof - Scrubbers/HVAC



## Hydrogen Refuelling Station Project (HRS)

### HRS Timeline



### Project Description

The Hydrogen Refuelling Station (HRS) is a landmark initiative in South Africa's transition to a hydrogen-powered future. Strategically near the OR Tambo International Airport, the station will produce tons of hydrogen per day—the largest hydrogen source in South Africa. Capable of fueling up to 400 fuel cell trucks and buses, this project offers a cost-effective solution for heavy-duty transportation, with hydrogen production that rivals diesel on a total cost of ownership basis. By significantly reducing carbon emissions and supporting the local hydrogen economy, Isondo's HRS project is paving the way for South Africa to become a global leader in hydrogen-powered transportation.

7 tons per day  
Green Hydrogen

Relatively pure  
(99.9%)

Purify, Compress –  
Multiple Stations

Refuel 300–400  
Cars, Trucks and  
Buses

TCO Equivalent  
to Diesel

#### Availability

Immediately Available

#### Climate Change

Industrial H2 produced by  
green energy

#### Source Cost

Zero – currently vented

#### Capital

No expensive  
electrolysis needed

#### Central Location

Gauteng – Low h2  
transport cost

#### Financials

Profitable and Sustainable  
immediately

### Key Attributes

#### Economy

Boost SA hydrogen  
Economy Status

#### Capability

Drive hydrogen capability/  
lessons learnt in RSA

#### Integration

Key link for H2 corridor &  
greening the airport

#### Localisation

Drive local beneficiation  
and assembly of FCEV

#### Automotive

Protect and drive automotive  
industry (homeologation)

#### Financials

Profitable and  
Sustainable immediately

#### NPV and IRR

IRR = 14.1%  
NPV = €150m

40000 – 80000 tons Co2 emission saving/annum