



## HySA Infrastructure installed facilities

HySA Infrastructure CoC have been successfully operating several first of its kind Solar-to-Hydrogen facilities in South Africa since 2013. Several systems and upgrades have been commissioned ranging from 0.5 kg/day up to 9kg/day of ultra-high pure hydrogen. Combined bulk hydrogen storage of more than 280 kg have been commissioned at HySA Infrastructure sites and off-site. A total of 98 kWp solar panels, related power electronics, 154 kWh energy storage using lead-acid and lithium battery technologies, 44kW combined PEM electrolysers, and several hydrogen storage systems with pressures of 14 bar, 200 bar and 350 bar.



## Features and services

- Solar photovoltaic capacity 98kWp for green hydrogen production
- 154 kWh battery storage for uninterrupted testing and hydrogen production
- Incorporate air-driven and electric hydrogen booster to fill steel and composite cylinders to 200 bar and 350 bar respectively
- Commercial supply of green hydrogen at 200 bar
- Liquid organic hydrogen carrier storage technology
- Ultra-high pure green hydrogen used for testing of fuel cells with the 19.2 kW capability of the testing facility
- Incorporate electrochemical hydrogen compression (EHC) to increase the output pressure to 150 bar
- Establish full economical hydrogen cycle: from the production of hydrogen to the end-user
- Renewable hydrogen training seminars
- Hydrogen energy infrastructure system design

