



IPHE Country Update November 2021: South Africa

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Covered Period	1 July to 31 October 2021

1. New Initiatives, Programs, and Policies on Hydrogen and Fuel Cells

- 1.1 On 14 September 2021, Cabinet approved the draft Hydrogen Society Roadmap. The document is now in final preparation for public release.
- 1.2 In September 2021, South Africa published its updated Nationally Determined Contribution (NDC) following Cabinet approval. Hydrogen will be key in achieving the NDC.
<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/South%20Africa%20First/South%20Africa%20updated%20first%20NDC%20September%202021.pdf>
- 1.3 The Department of Science and Innovation, in collaboration with the private sector, released the Hydrogen Valley Feasibility Study Report on Hydrogen Day (8 October 2021). https://www.dst.gov.za/images/2021/Hydrogen_Valley_Feasibility_Study_Report_Final_Version.pdf.
The following are some of the high-level outcomes of the report:
 - 1.3.1 Nine catalytic projects in the mobility, industrial and buildings sectors have been identified to kick-start the Hydrogen Economy in the Valley.
 - 1.3.2 Hydrogen demand in the Valley could reach up to 185,000 tonnes by 2030
 - 1.3.3 By 2030, the levelized cost of green hydrogen across the hubs is expected to be ~\$4 per kg, equating to a green premium of \$2-\$2.5 per kg.
 - 1.3.4 The Hydrogen Valley could potentially add \$US3.9-8.8B to GDP (direct & indirect contributions) by 2050.
 - 1.3.5 14 000 – 30 000 direct & indirect jobs per year by 2030 could be created.
 - 1.3.6 The proposed projects in the H2 Valley could bring up to \$100M to the Platinum industry in South Africa in 2030.

2. Hydrogen and Fuel Cell R&D Update

Cabinet approved the extension of the HySA Programme for an additional ten (10) years for the Programme to continue developing the technical expertise required to support the implementation of the Hydrogen Society Roadmap.

3. Demonstration, Deployments, and Workforce Developments Update

N/A.

4. Events and Solicitations

N/A

5. Investments: Government and Collaborative Hydrogen and Fuel Cell Funding

An RDI budget of \$US5.8M has been approved for the HySA Programme for the 2021/22 financial year. The funding will also be used to attract further co-funding from the private sector.



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6. Regulations, Codes & Standards, and Safety Update

N/A. However, the country continues to participate in the RCSSWG of the IPHE through its appointed representatives.

7. Summary Country Update November 2021: South Africa

N/A. There has been no significant change in deployments in the last six months. It is envisaged that deployments will accelerate following the public release of the hydrogen Society Roadmap.