



International Partnership  
for Hydrogen and Fuel Cells  
in the Economy

# ***South Africa G20 Presidency: Energy Transition Working Group***

43<sup>rd</sup> IPHE Steering Committee Meeting

10-11 June 2025

Santiago, Chile

# South African G20 Presidency

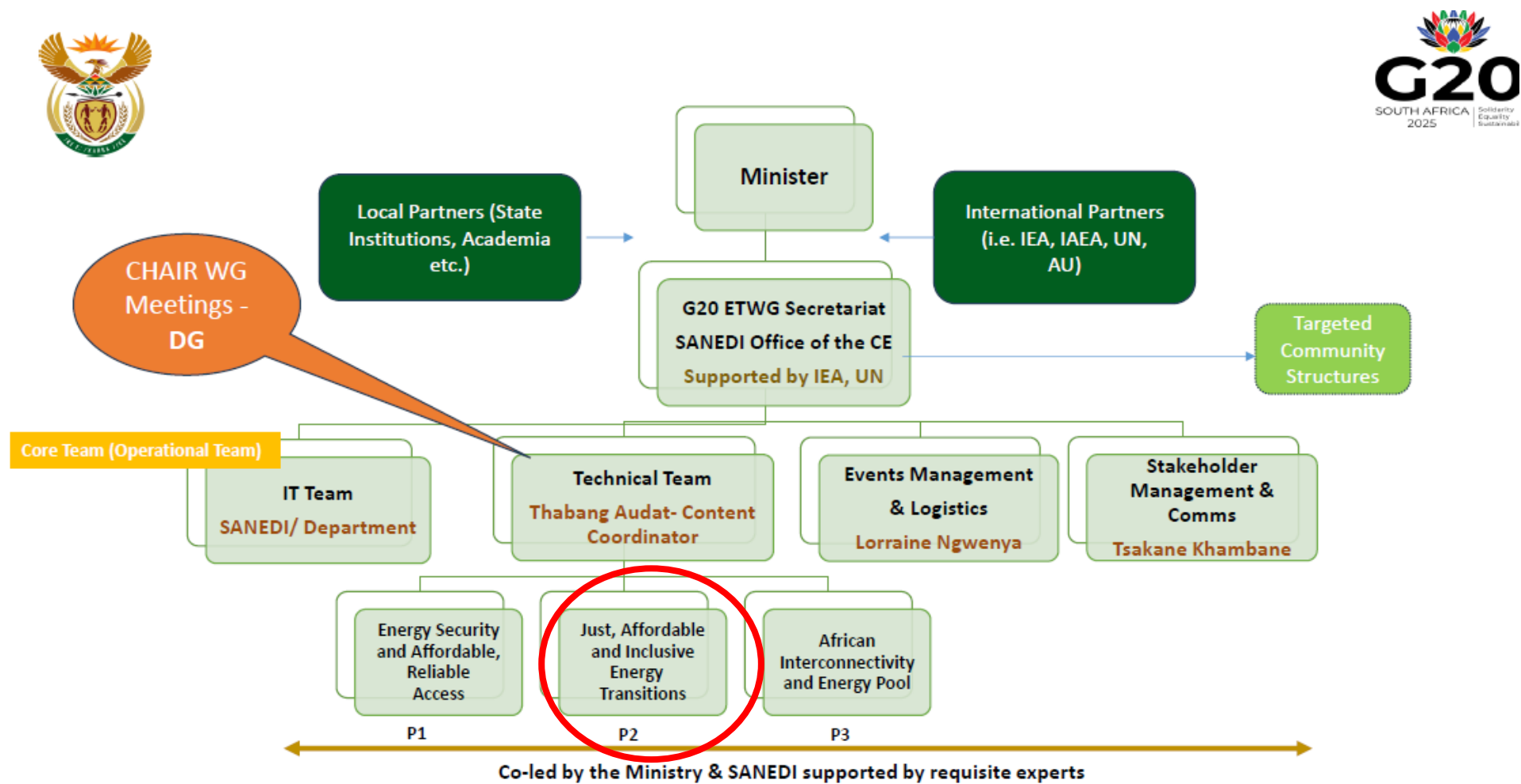
## South Africa's embraced theme:

- Solidarity
- Equality
- Sustainability

## Priorities that South Africa aims to elevate as part of its G20 hosting:

- ✓ Take action to strengthen disaster resilience and response
- ✓ Take action to ensure debt sustainability for low-income countries
- ✓ Mobilise finance for a just energy transition
- ✓ Work together to harness critical minerals for inclusive growth and sustainable development

# G20 Energy Transition Working Group Structure



# G20 Energy Transitions Working Group Priorities



## Priority Area 1: Energy Security and Affordable, Reliable Access

### Outcomes:

- Energy Security: Develop a framework on how to address energy security risks, considering diversification of energy sources such as natural gas, nuclear (small modular reactors), solar, wind and hydrogenation.
- Develop a roadmap for financing energy access with an Africa-focused action plan for deploying technologies, such as microgrids, to un-serviced communities.
- Clean cooking gap: accelerate the deployment of cleaning cooking solutions in the next two years to reach universal access to clean cooking by 2030, notably in Africa.
- Infrastructure Resilience: Develop an action plan for developing and/or upgrading energy infrastructure, particularly in under-serviced communities,
- Affordability Frameworks: Work towards a global energy poverty compact based on a compendium of policies and funding schemes to reduce energy cost, energy poverty and support vulnerable consumers.

# G20 Energy Transitions Working Group Priorities

- **Priority Area 3: African Interconnectivity and Energy Pool.**

## **Outcomes:**

- Exchange best practices on regional interconnectivity with an action plan for achieving regional interconnectivity in Africa based on the three pillars:
- Ten-year infrastructure investment plan for Africa's Cross-Border Projects: Guided by the African Union, identify a minimum of three significant cross border energy projects and develop project financing mechanisms. African Continental Master Plan to be used as a guide.
- Policy Harmonization to support cross border trade: Align regulations in 50% of AU member states by 2025 to foster a unified energy market.
- Renewable Energy Corridors: Establish two corridors by 2030, supplying 15% of regional needs.

# Priority Area 2: Just, Affordable and Inclusive Energy Transitions



## G20 Negotiated Outcomes

**Outcome 1<sup>a</sup>:** Sustainable/Clean Industrialization Hubs, this also includes outcome 5 with a focus on Clean Hydrogen for hard to abate sectors. Any sustainable fuel derived from Hydrogen will be incorporated.

**Outcome 3:** A G20 action agenda for affordable and inclusive transitions

## Presidency G20 documents

**Outcome 2<sup>b</sup>:** Socio-economic Safeguards for Coal-Dependent Regions. This also includes outcome 4 on Local Content Requirements

**Outcome 4:** Sustainable Fuels: with a focus on the biofuel's continuation from Brazil and India and the nascent biofuel market in SA and Africa in particular

a\* includes Outcome 5 on clean hydrogen for the hard-to-abate sectors

b\* Outcome 2 and 4 combined to form one outcome

Total outcomes for Priority 2 have been reduced from six to four with two planned for negotiated outcomes and 2 planned for the Presidency

# G20 Negotiated Outcomes



## Sustainable Industrialisation Hubs

### Expected Outcome:

Develop a roadmap and action plan for establishing sustainable industrial frontier hubs in Africa, focusing on long-term sustainable jobs and low-carbon industries.

**The G20 initiative for industries in transition will focus on identifying opportunities in three critical areas:**

- ✓ Beneficiation of critical minerals
- ✓ Beneficiation of heavy industry inputs
- ✓ Production of hydrogen and its derivatives

## A G20 Action Agenda

### Expected Outcome:

Deepening Brazil's G20 principles and engaging the Global Commission for People-Centred Transitions.

**Global commission 2024: Analysis for the blueprint will be grouped under three themes, based on the G20 Principles:**

- ✓ Jobs and Skills: focusing on social protection, workforce development, and inclusive economic growth
- ✓ Fair distribution, affordability and access: addressing energy poverty, affordable solutions and distributional effects.
- ✓ Social inclusion and participation: covering stakeholder engagement, gender equity, Indigenous rights and youth participation.

# Presidency G20 Documents

## Socio-economic safeguards

### Expected Outcome:

- ✓ Develop a framework for inclusive energy transition policies and practices that mitigate job losses in fossil fuel dependent regions, while promoting clean energy job creation and meaningful participation of impacted regions.
- ✓ Develop a roadmap and action plan for local and social compacting (government, business, and labour), to implement domestic sourcing policy for renewable projects to mitigate job losses incurred as a result of the transition.

## Sustainable fuels

### Expected Outcome:

- ✓ Develop a roadmap for sustainable fuels building on the latest global analysis and related collaboration initiatives with a focus on the biofuel's continuation from Brazil and India and the nascent biofuel market in SA and Africa in particular.



# Preliminary mapping of report, IO and Outcome

List of Report	Implementing Organisation	Outcome	1 <sup>st</sup> Draft	Final Draft
A roadmap on green industrial frontier hubs	UNIDO	1	16 May	28 May
Policy brief on green energy zones	UNIDO	1	16 May	28 May
Green hub development in Africa, including hydrogen, heavy-industry and critical minerals	IEA	1	16 May	28 May
Investment opportunities and financial models for Renewable energy	IRENA	1	16 May	28 May
Roadmap and action plan for establishing green industrial frontier hubs in Africa by 2027	SEforAll	1	16 May	28 May
Green hydrogen and ammonia technologies, providing data-driven insights	CSIR with MI and RD20	1	16 May	28 May
Principles into Action: Leverage Resources, Trade, and Finance, including policy recommendations on the objectives and priorities of G20 presidency	IRENA	2	16 May	28 May

# Preliminary mapping of report, IO and Outcome

List of Report	Implementing Organisation	Outcome	1 <sup>st</sup> Draft	Final Draft
Advancing green hydrogen integration into emerging economies' energy future	CSIR with MI and RD20	1	16 May	28 May
Innovative ammonia production as a sustainable energy transition solution	CSIR with MI and RD20	1	16 May	28 May
Strengthening energy security through green hydrogen and ammonia	CSIR with MI and RD20	1	16 May	28 May
Development of a roadmap for off-takers in hard to abate sectors for green hydrogen investment	UNIDO	1	16 May	28 May
Industrial Deep Decarbonisation Initiative (IDDI)	SEforAll	1	16 May	28 May
Recommendation and guidelines for green hydrogen and derivatives	CSIR with MI and RD20	1	16 May	28 May
Energy Security, notably gas security, in the African context, low-emission hydrogen and related sustainable fuels	IEA	4	16 May	28 May

# Thank you



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