

Green Hydrogen

International Cooperation, PtX Value Chains & Economic Diversification

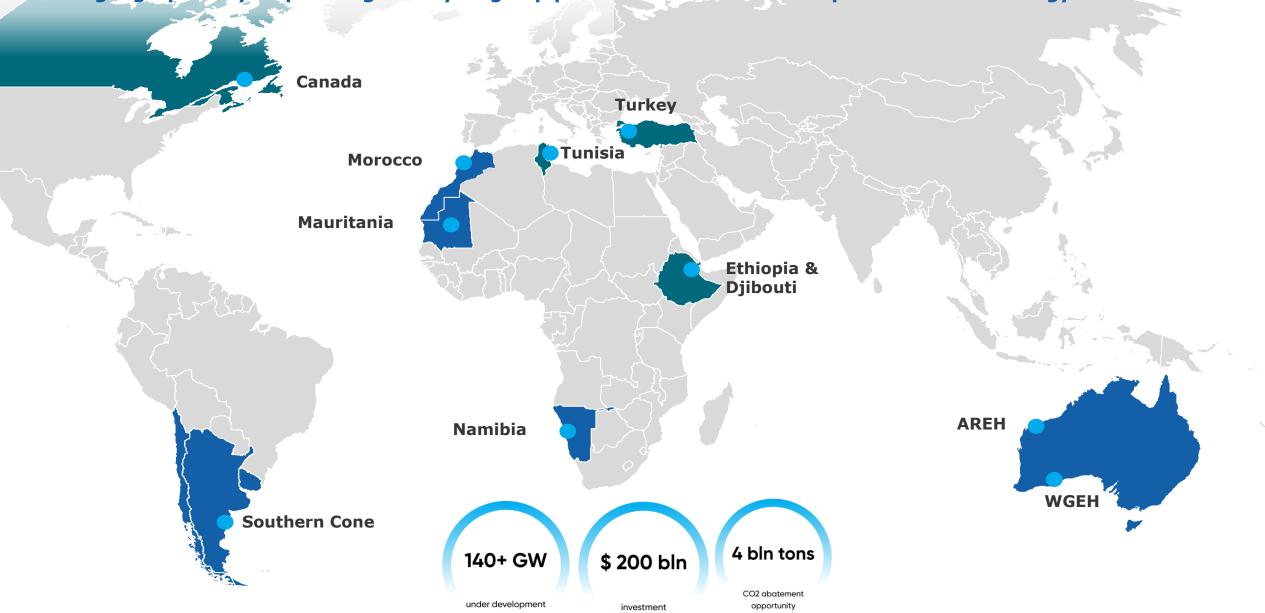
Margaret Mutschler

Development Director for Africa August 2022

OUR GREEN HYDROGEN PIPELINE...



Our geographically dispersed green hydrogen pipeline covers world's cheapest renewable energy locations



CWP H1 - AT A GLANCE

CWP's Green Hydrogen activity is delivered entirely through CWP H1

Early movers on green hydrogen supersites - For the past four years CWP has focused on securing the best real-estate across the globe for GW scale renewables suitable for green H2 production and export

- A massive pipeline CWP H1 as an established portfolio of landmark assets with 120 GW of secured sites
- Along with further growth opportunity in addition, the company has established a further pipeline of approximately 150 GW that offers further geographic diversity

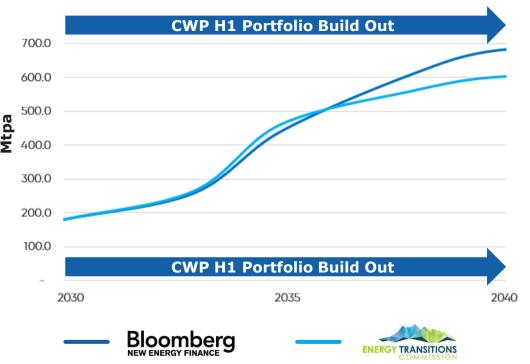
A template frontrunning project – CWP were a founder of the Asian Renewable Energy Hub (AREH). Learnings from this project enhance the speed and reduce the development risk for the rest of the portfolio

Experienced management team with track record - the CWP H1 team is an entrepreneurial team with a track record of delivery. Large scale has been a theme of the team's achievements over the last 15 years, from the largest wind farm in Europe to the largest renewable energy business in Australia as well as founding the worlds first large scale H2 project.

Complemented by locally based development teams and a cohesive central technical team - The group has locally based development teams supported by a senior management team and a technology team structured for pushing projects forward on four continents simultaneously

Long lead time projects but the timing is perfect - the first CWP H1 projects will commence production at the back end of this decade and the build out of the portfolio will continue through the 2030s - the timing is perfect for the ramp up in global demand for green hydrogen and it's derivatives.

HYDROGEN DEMAND FORECASTS

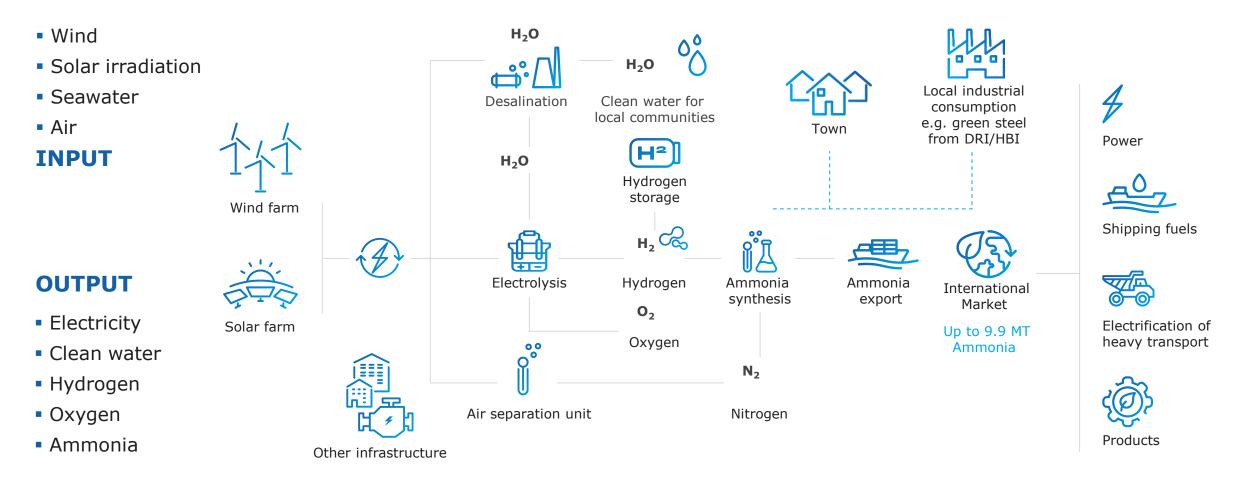






PTX INFRASTRUCTURE

Our PtX concept comprises a system of upstream renewable energy generation facilities, downstream production of green hydrogen & ammonia, and export facilities ensuring maximum safety & loading efficiency. This concept is applied to all our projects, and we strive to develop additional revenue streams where possible.



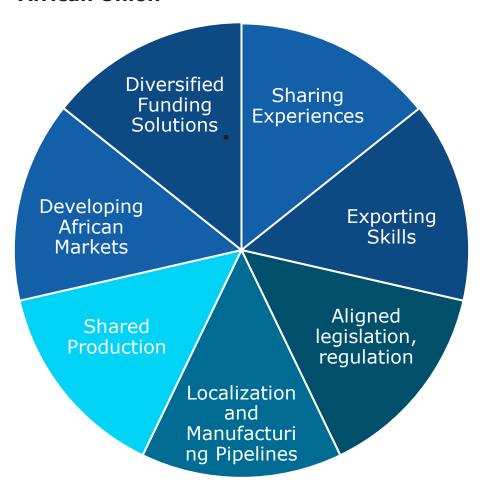


DEFINING THE BRAVE NEW WORLD AS A CONTINENT

Africa needs to train, participate, plan and get ready, become innovative, collaborate

•Long-term, certain, sustainable and bankable access to Land sufficient land •Support in untangling the difficulties for businesses to **Investment Friendly** establish, get licences and permits and timely, efficient **Decisions** and predictable decision making •Openness to accommodate various approaches for both **Flexibility** large scale mega projects as well as smaller building blocks •Africa's requirements and ambitions needs to be well **Clear Message** formulated and consistently implemented and enforced •Africa needs to realise that we are competing globally, and need to make sure that projects remains globally Competitiveness competitive •Access to a larger skilled workforce and clear labour Workforce rules and practices •Available local suppliers for goods and services -**Business Fraternity** including financial services, contractors, consultants, insurance, off-takers, etc.

Green Hydrogen could be the catalysator in building a solid foundation of a strong African Union



AN ECOSYSTEM OF OPPORTUNITIES

Direct Value Chain Off takers and Opportunities



National and regional grids Large Scale users Regional traders Ancillary Markets



Water supply networks High Value Agriculture



Mangroves or similar crops



Medical Use Industrial Use



Steel (HBI/DRI)
Power Generation
Bulk Transport
Mining Trucks
Public transport
Rail
Refinery

Methanol
Aviation Fuel
Plastics
Heating
Gas Blending
High Temperature heat



Marine fuel and bunkering Power Generation Fertilizer Explosives



The Supporting Ecosystem

Consultants

Administrative Support Services

Logistics and traveling

Accountants and Auditors

Marketing and Branding

Public Consultation, Awareness

Translation

Theater

Warehousing

IT and Web Support

Modeling and Optimisation

Electrical Services

Substation and Lines

Civil and Buildings

Earth works, trenching and road works

Pipelines

Assembly of trackers/solar parks/WTG

Welding

Contract Management

Arbitration

Project Management

Site supervision

Communication (GSM, etc)

Banking

Accommodation

Tourism

Vehicles Hire

Office Space

Accounting

Conference Venues

Employment Agencies and Advisory

Ready

to

Invest

Readv

Supply

Ready to be

Employed

Certification and traceability

Laboratory Services

Legal

Manufacturing

Steel structures and tanks

Cabling

Pre-fab/construction offices and housing

Catering

Storage

Medical Clinics and Emergency

Training

Catering

Mentoring

Tools and Equipment

Security and Safety

Monitoring

We need to seek the connections between the dots, to make sure we tap into, explore, and maximise the impact of the development and implementation of this industry on other industries:

- it is an input, an impetus, and we should give it legs and find many houses for it.



Investing in a sustainable future



Margaret Mutschler

Development Director for Africa

margaret.mutschler@cwp.global