

GREEN HYDROGEN AND SKILLS DEVELOPMENT IN NAMIBIA

*The Namibia Training Authority's Role in Attracting Talent
and Knowledge to the Green Hydrogen Industry; and in
Strengthening the Development of Career Trajectories*

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NAMIBIA: TOWARD A GREEN HYDROGEN HUB IN AFRICA

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NAMIBIA TRAINING AUTHORITY

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Namibia Training Authority - Mandate

- ▶ VET Act of 2008
- ▶ GRN SOE - Ministry of Higher Education, Training and Innovation
- ▶ Multi-Faceted Mandate
 - ▶ *Regulator*
 - ▶ *Funder*
 - ▶ *Service Provider*
- ▶ Other
 - ▶ *Develop Qualifications*
 - ▶ *Research*
 - ▶ *Assessment & Certification Body*
 - ▶ *Careers Advocacy*



The Phased Approach

- ▶ Commercial-scale pilot in partnership with leading electrolysis operating company to build necessary capabilities
- ▶ Start research & development (R&D) with a university department
- ▶ Develop right policies & regulations to support local market
- ▶ Define governance and institutional framework
- ▶ Develop funding model.
- ▶ Build export infrastructure
- ▶ Secure supply agreements with export markets



The Benefits

- ▶ Developments in Manufacturing
- ▶ Increase Supply Chain Capabilities
- ▶ Create Jobs

Hydrogen use either growing or has potential for growth due its wide range of applications



Possible Areas of Application

- ▶ Transportation
- ▶ Chemicals & Industrial
- ▶ Stationary & Power Generation Plants incl. Integrated/ Hybrid Energy Systems

Example:

- ▶ *South Africa - case in point - targets 10 GW electrolysis capacity, produce about 500 kilotons of hydrogen per annum*
- ▶ *Creation of 20 000 jobs annually by 2030 & 30 000 by 2040*
- ▶ *Dependent on SA's local capacity and creation of more integrated domestic value chain that could reverse current trend and kick-start hydrogen economy*



RES Vocations/Professions (Direct/Indirect)

Renewable Energy Sources (RES)- create more jobs than fossil fuels they are displacing
By 2013, 6.5 million people working directly in renewable energy (RE) sector, globally

Technicians - “...action men of renewable energy world: they work with their hands and with tools and machinery, special equipment and vehicles...”

Depending on national economic development level, possible areas that generate RE vocations/professions:

- **Technicians** - Ensure RE products manufactured to standards, plants assembled to specifications, RE devices installed properly, day-to-day operations, RE facilities maintenance
- **Technical Designers & Consultants** - Technical brains behind RE operations, spot technical opportunities, generate new ideas, solve problems, planning, ensure that new RE developments are sustainable in terms of national needs, economics, environmental laws
- **Energy Advisors** - Supporters, knowledge providers to individuals/companies involved in RE
- **Business Development Executives** - Strategic brains behind all RE operations



Thank You Very Much...

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