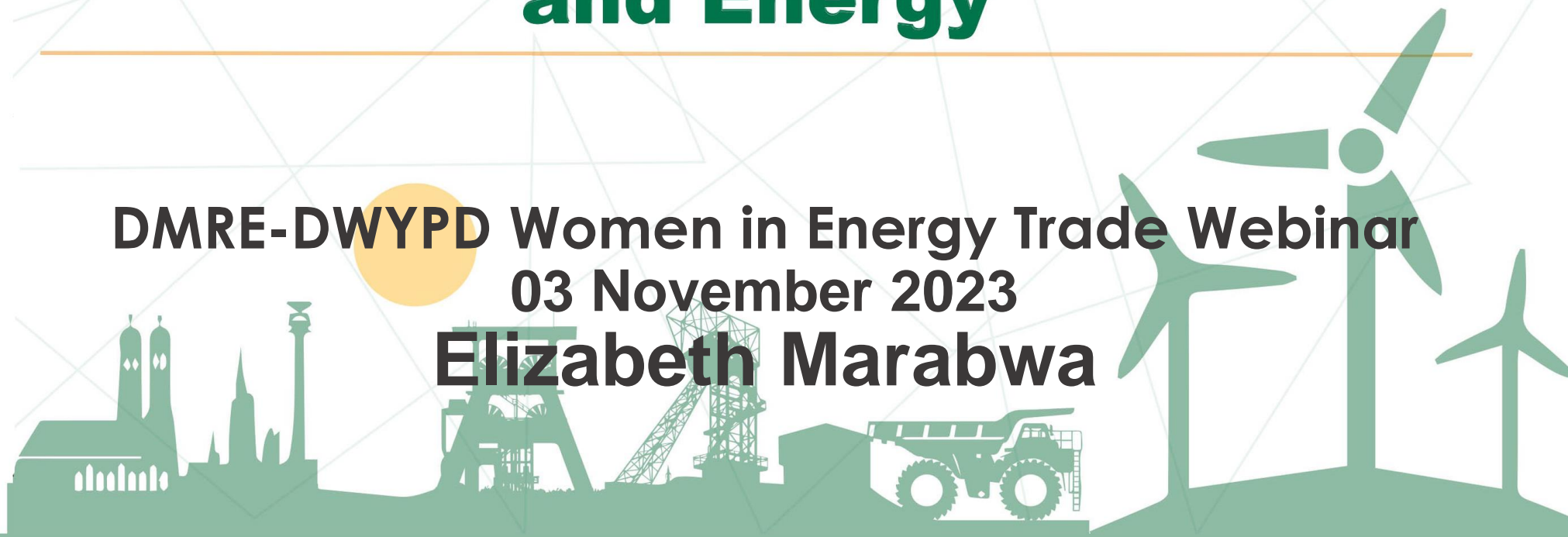


Department of Mineral Resources and Energy

DMRE-DWYPD Women in Energy Trade Webinar
03 November 2023
Elizabeth Marabwa



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Contents

- Legislative Framework
- Department of Mineral Resources & Energy (DMRE) Mandate
- Introduction
- Women Empowerment and Gender Equality (WEGE) Strategy Pillars
- Energy Sector WEGE Strategy Operational Pillars
- WEGE Strategic Objectives
- WEGE Operational Pillars
- Business opportunities in the Energy Sector
- Capacity Building Initiatives
- Accountability and Partnerships
- Conclusion

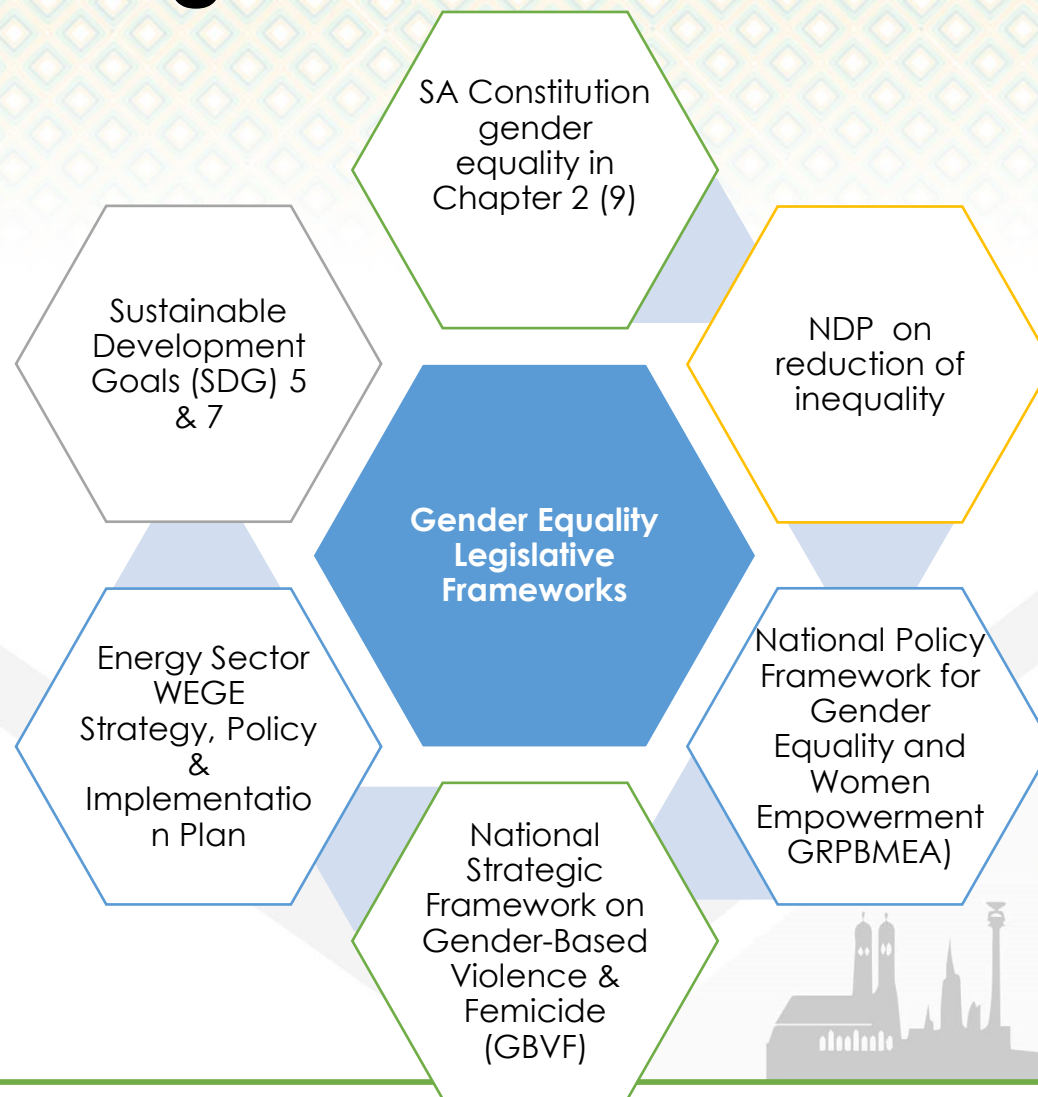


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Legislative Frameworks



DMRE Mandate

- DMRE's mandate is to regulate, transform, and promote the minerals and energy sectors, providing sustainable and affordable energy for growth and development, and ensuring that all South Africans derive sustainable benefit from the country's mineral wealth.
- Programmes and Projects Management Office's mandate is to lead the Mineral and Energy Sector's efforts to advance Gender equality and the empowerment of women in the energy and mining sectors.
- Promote Women, Youth, and People with Disabilities participation in the energy and mining sector



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Introduction

The 2019 IEA Study on 7 Women in Solar Energy Entrepreneurs revealed that:

- They share common key personal characteristics, such as **passion, commitment and persistence.**
- Faced similar barriers:
 - **securing funding,**
 - **building partnerships,**
 - **educating stakeholders** about the benefits of clean energy technologies.
- Key proposed actions to close the gender gap include:
 - targeted funding
 - access and ability to networks
 - Good partnerships (local & international)
 - **Supportive policies and strategy for gender equality.**



Introduction

Energia Case Study on Supporting Last-Mile Women Energy Entrepreneurs: What works and what does not:

- Identified the same challenges and the same solutions
- An enabling environment is as important as direct support to the entrepreneurs.
- **Partnership & Collaborations:** bring together a number of stakeholders who need to operate in tandem: **entrepreneurs, specialized support organizations, financial institutions, civil society organizations** (i.e., women support groups), and the public sector.
- Access to capital must necessarily be accompanied by a **host of complementary services**, such as **leadership and agency development, investments in business development & financial literacy** and in the **ability of entrepreneurs to manage cash flows, and continued mentor support**, all of which have been seen to increase women's direct control over resources and increase **their self-confidence**
-



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Energy Sector WEGE Strategy Objectives and Pillars

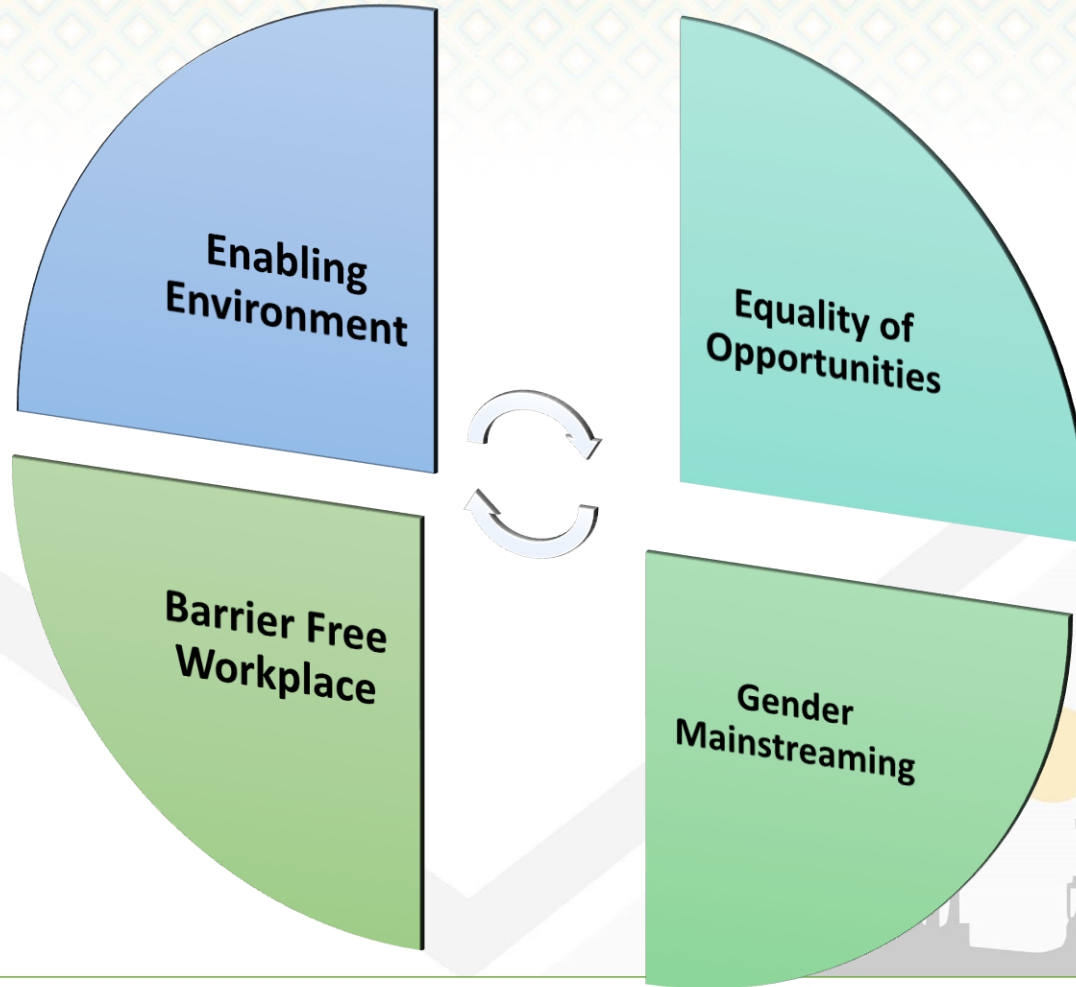


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Strategy Pillars

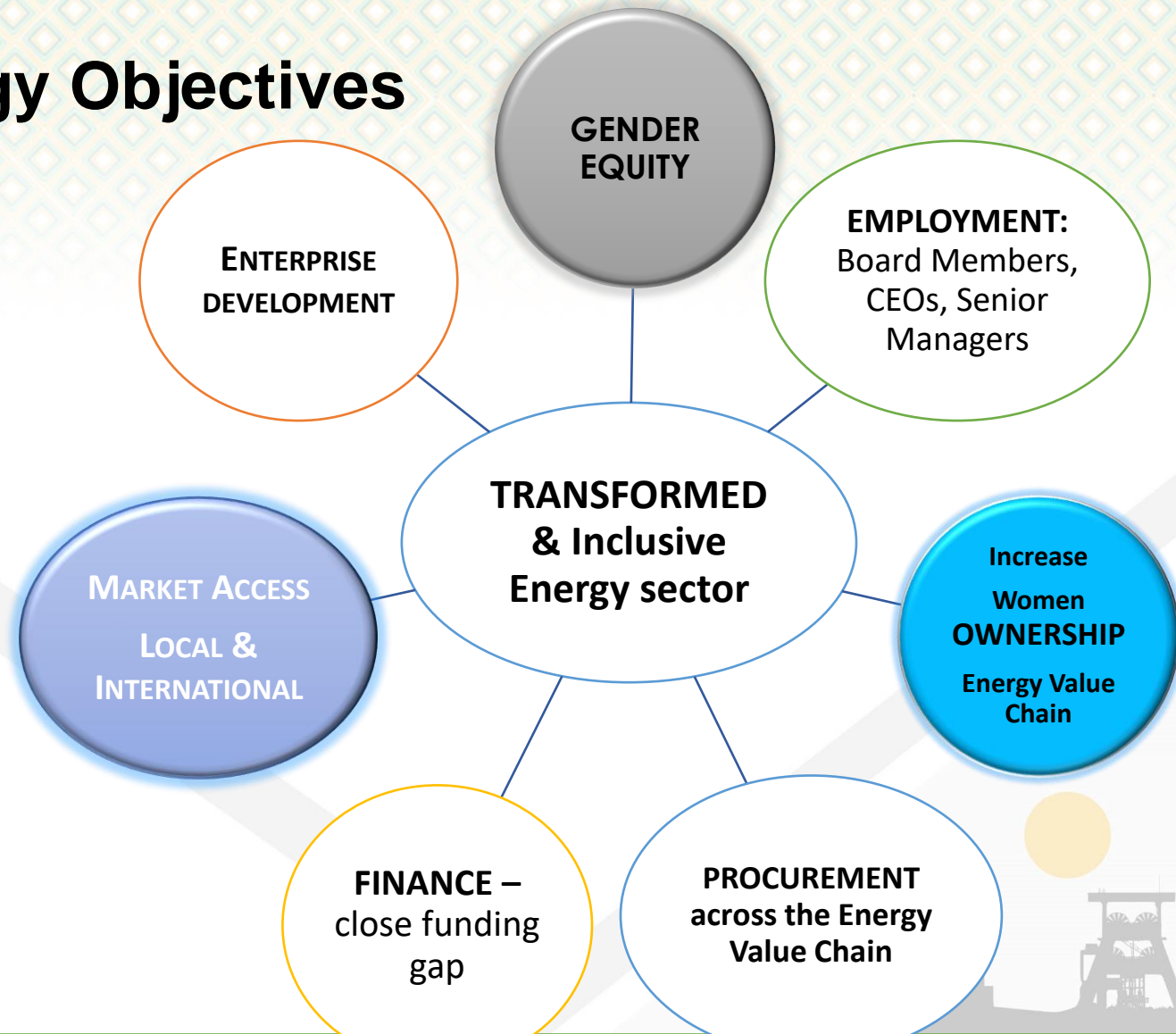


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Strategy Objectives



Operational Pillars

Capacity Building

- Pipeline development from junior to SMS Level
- Training & awareness programs on access to economic opportunities
- Programmes such as Mentorship, Bursaries, Incubations, etc.

Organizational Development

- Provisioning of adequate resources e.g., gender budgeting
- Development of pathway for upward mobility of women
- Support the formation of women cooperatives, associations & Council
- Facilitate, enhance and maintain the Women in Energy Directory

Governance & Institutional Development

- Incorporation of gender in all policies, programmes, and projects.
- Accountability & Monitoring through M&E, Reporting templates
- Establishment of a Gender Management System (GMS) and institutional mechanisms
- Gender Ministerial Advisory Council

Economic Growth & development

- Development of programmes and initiatives to address the low skills base of women in the energy sector, and those who intend to join the sector.
- Programmes to address opportunities for women to access business, information, relevant skills, finance and technology





Energy Sector



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Opportunities in REIPPPP

DMRE and the Independent Power Producer Office (IPP Office) advertise different bid windows and preferential bidders get appointed.

Opportunities are available for women to sub-contract to the major/ bigger companies appointed and/ or to be appointed.

Besides participating in the REIPPPP as a generator opportunities are also available to participate in the construction of the IPP.

- The following are some of the opportunities:
 - Construction,
 - Operations,
 - Maintenance, and
 - Support opportunities, e.g., cleaning, security, environmental and vegetation management services, logistics, sanitary services
- More information is available at <https://www.ipp-projects.co.za/> and www.dmre.gov.za



Opportunities in the SSEG

- Demand for electricity in South Africa has increased. Projects to invest in the generation of electricity are in demand.
- Participation in the **generation, transmission, and distribution** of electricity in South Africa is regulated and needs registration from the **National Energy Regulator of South Africa (NERSA)**.
- SSEG presents a lucrative opportunity for women in the power sector.
- **Solar Home Systems/ Residential Systems & SWHP (25%/ Max R15 000 rebate)**



How to Register SSEG Opportunities

Application for registration must be done by the owner/operator of the generation facility by filling in the Registration Application Form. The form must be accompanied by:

The consent letter from the licensed Network Service Provider;

The wheeling agreement with the Network Service Provider if applicable

The Power Purchase Agreement between the generator and the consumer, if applicable;

Proof of payment of the once-off **R200 Registration Fee** per facility see NERSA Registration Procedure and full information @ <https://www.nersa.org.za/>



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Progress on SSEG Opportunities

No.	Year	Registered Gen Facilities	Capacity Registered (MW)
1	2018	52	26
2	2019	41	23
3	2020	124	53
4	2021	282	134
5	2022	406	164
6	2023	281	3884
7	Total	1186	4284



Opportunities in the Emerging Green Hydrogen Sector

Green Hydrogen offers opportunities in the various projects being established in the country and region

RE projects (wind and solar) linked to mega green hydrogen projects

Manufacturing of batteries

Supply of services across the value chain

Green hydrogen fuel to power the following:

- Industrial processes
- long-haul freight
- Shipping industry
- aviation sector

distributor infrastructure for hydrogen fuels
export to global market



Opportunities in the Energy Efficiency Sector

Public Buildings and Infrastructure (EEBIP)

National, Provincial and Municipal Facilities

Wastewater Treatment Plants

- Cogeneration/CHP
- Embedded Generation
- Energy Management Systems
- Efficient Motors
- LED Lights

Building Facilities

- SWH Systems
- Embedded Generation
- Building Energy Management Systems
- Energy Performance Certificates
- Efficient HVAC system
- LED Lights

Public Street Lighting/High Masts

- Small Scale PV Systems
- Energy Management System/Smart Meters
- LED Lights



Opportunities in INEP

- South African energy policy mandates access to energy (electricity to all households)
- National Treasury (NT)/ DMRE contract Municipalities and Eskom to conduct the National Electrification Programme
- NT published the Division of Revenue Bill with all Municipalities that have been allocated INEP funding for both the Municipality and Eskom programme.
- DMRE enters into a Memorandum of Agreement (MOA) with the allocated Municipalities and Eskom, they then advertise for consultants and contractors to implement the programme.
- Advertisements are placed on newspapers, websites, and government gazettes



Opportunities in INEP

INEP Municipalities & Eskom business opportunities include amongst others:

Contracting to implement electrification projects (households, building substations, and constructing medium voltage infrastructure lines)

Design for electrification projects

Sub-contracting to the main contractor to implement INEP projects

Selling electrification materials e.g., poles and other electrical materials



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Opportunities in the Petroleum Sector

The department manages and regulates the petroleum licensing process, i.e., manufacturing, wholesale, retail, and site licenses.

The Petroleum Sector presents business opportunities such as:

Petroleum Wholesale

Petroleum Retailing

Logistics and Transportation/ Petrol Trucks

Petrol Station Convenience Shop

Construction and maintenance services (revamping, landscaping, painting) Pump and tank services

Commercial Fuels

Mining and Aviation



Opportunities in the LPG Sector

Most rural households remain without grid electricity.
LPG is an affordable means of space heating and cooking

LPG presents business opportunities to supply clean and modern energy in rural areas.

Business opportunities in the LPG Sector include the following:

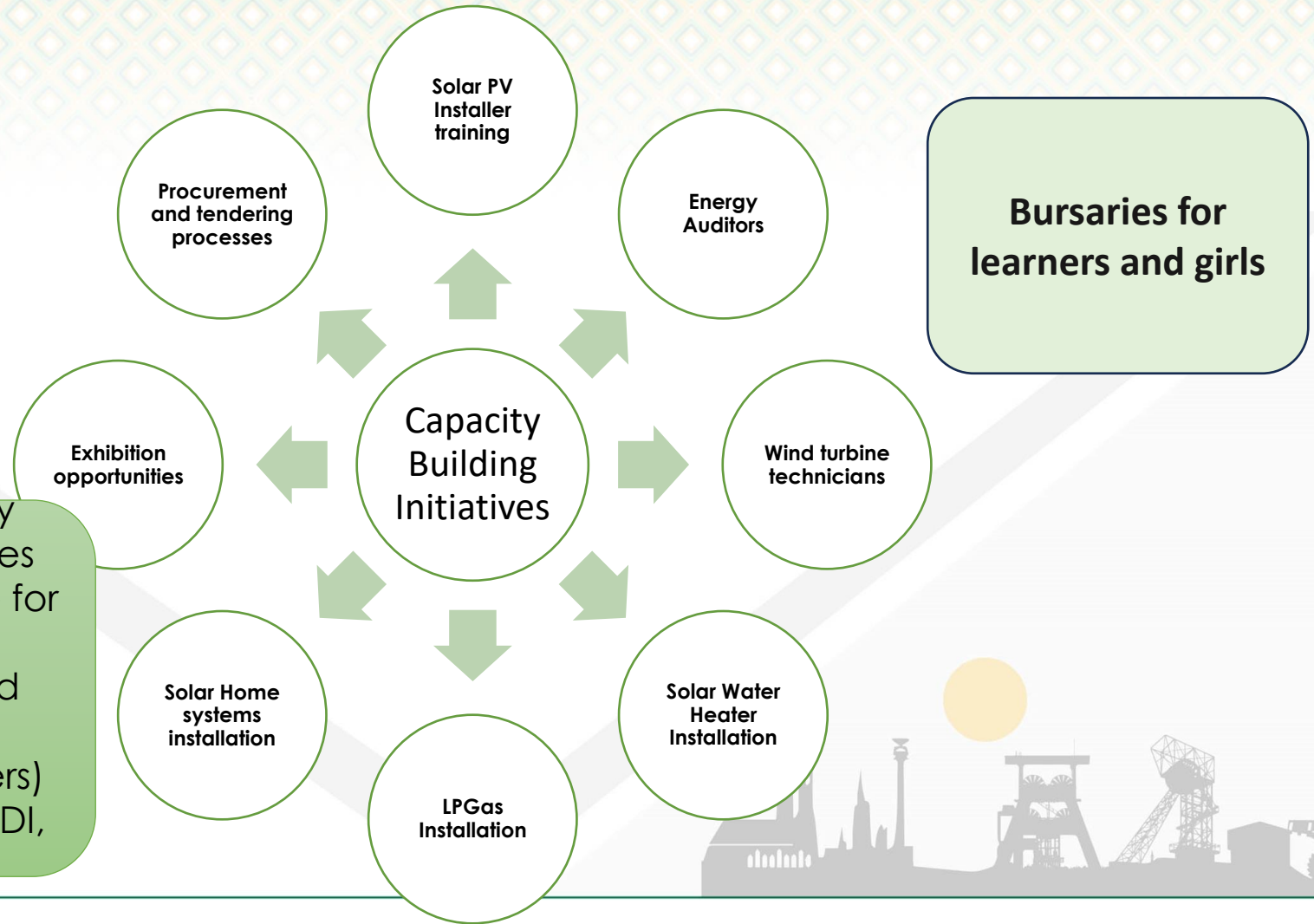
- Supply LPG to Bulk Industrial end users
- Bulk and Cylinder Hospitality end users
- Cylinder domestic users



Capacity Building Initiatives



Registered Energy Services Companies (ESCOs) responsible for Auditing, Measurement and verification, Technology Installers) registered by SANEDI,



Accountability and Partnerships



Partnership
GIZ/ Baseline
Studies

- Gender Diversity in the RE Sector Utilities
- Gender Response Measures and Strategies for the Emerging Green Hydrogen Economy in South Africa and a guide to increasing women's participation in the emerging green hydrogen economy in South Africa.

Engagements

- Engagement with Financial Institutions
- Trade Africa/ South African Electrotechnical Export Council (SAEEC)
- Renewable Energy CEOs
- Participated in different Forums
- Energy Associations

Partnership

- Training institutions, e.g., EWSETA, SARETEC
- Local and international organizations
- Major Conference Convenors – SOLAR POWER, WINDABA, ENLIT AFRICA, AFRICA ENERGY INDABA; AFRICA OIL WEEK, etc.
- Department of Women, Youth & Persons with Disabilities



Conclusion

- There are a lot of opportunities to trade and business beyond our borders.
- Remember that becoming an entrepreneur doesn't mean you have to build your own wind or solar farm, or even power station, it is about more than just electricity generation. It is also about storage, conservation, and distribution.
- You also don't need to invent a new product or technology. You can get involved in installation, repair, maintenance, or consulting.
- Think broadly and focus on your areas of expertise or invest in learning the trend.
- Also invest in marketing your products or services and how to convince consumers to spend money on your product or services.





THANK YOU

