

## Background & Challenges

South Africa's electricity supply industry is poised for a significant transformation as it embraces decentralization and establishes a competitive electricity generation market.

By the year 2030, it is expected that wind and solar photovoltaic (PV) sources will contribute to approximately 40 % of the total installed generation capacity.



Amidst these sweeping changes, **the imperative to bolster the capabilities of experts and managers in the power sector becomes evident, facilitating the smooth implementation of the Just Energy Transition.**



Tertiary education, encompassing all formal post-secondary educational avenues, including public and private universities, plays a pivotal role in preparing professionals for South Africa's evolving power sector.



Recognized as a **catalyst for fostering economic growth, poverty reduction, and shared prosperity, tertiary education serves as a cornerstone for innovation and progress. A highly skilled workforce, armed with lifelong access to quality post-secondary education, stands as a fundamental requirement for driving resilience and promoting personal and collective advancement.**



Recognizing the importance of enhancing expertise in the power sector, the project "Capacities for the Energy Transition" (CET) has taken significant steps to set up capacity building initiatives in collaboration with key institutions like the Center for Renewable & Sustainable Energy Studies (CRSES) at Stellenbosch University, the Power Futures Lab (PFL) at the UCT Graduate School of Business, and the African Energy Leadership Center (AELC) at the Wits Business School.



In collaboration with its partners, CET has supported the development of more than 20 courses tailored to address the specific needs of South Africa's energy sector. **These courses span a wide range of topics, including power system planning and operation, green hydrogen, energy policy and regulation, as well as energy leadership and governance.**

**This comprehensive approach ensures that participants receive a holistic understanding of the challenges and opportunities in the evolving energy sector.**

## Field of Intervention:

# Capacity Building

Boosting human skills helps promote reliable, affordable and clean energy.



## Activities



Support the development and adaptation of short courses with a focus on just energy transition and power sector reform topics



Organize journalist and communicator trainings to convey the fundamentals of climate change, renewable energies and green hydrogen and enhance communication skills



Conduct media trainings for decision-makers in public organisations to support sharpening their key messages within the energy transition

## Results

# 22

Accredited short courses on power systems planning and operation, energy policy and regulation, electricity governance, and green hydrogen at 3 universities

# 860

(40% women)

Professionals have attended these short courses to date

In 2 media trainings we have trained

# nine

Decision-makers

# 50

Journalists and communicators were trained in Johannesburg, Cape Town and Tshwane

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