



Postgraduate Diploma in Management in the field of Energy Leadership



This programme provides a **solid foundation** in all aspects of energy leadership in order to make more confident, decisive and effective **leaders** in this sector



WITS BUSINESS SCHOOL

South African case studies produced by our Case Centre

350



Faculty with PhDs

95%



Academic articles by our faculty published every year (+/-)

30



WITS UNIVERSITY

28

A-rated Scientists



4

Nobel Laureates



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MESSAGE FROM THE ACADEMIC DIRECTOR

The lack of energy access in Africa is not due to a lack of natural resources, but one that I attribute to a dearth in leadership. Africa; with her young and growing population, vast untapped energy and other natural resources, has the potential to become a leading global economic force. This potential can be realised only if we develop the next generation of leaders in the energy sector; develop the scarce skills needed to grow economies, leaders who can deal with growing uncertainty in an inter-connected, fast-changing technological world, a world in an accelerating transition to producing cleaner energy, and a world engulfed by a global health pandemic and political uncertainty.

It is against this background that Wits Business School (WBS) took the initiative to establish an African Energy Leadership Centre (AELC). For anyone wanting to carve out a career for themselves in this crucially important sector, we encourage you to find out more about our programmes. This continent urgently needs a new generation of visionary, solutions-oriented leaders in the energy field.

We hope to play an important role in developing such leaders and look forward to welcoming you to WBS.

Prof Logan Rangasamy
Academic Director

effective leadership

in the energy sector

WHAT IS THE AFRICAN ENERGY LEADERSHIP CENTRE?

Wits Business School launched the African Energy Leadership Centre (AELC) in 2017, the first of its kind in Africa. The AELC aims to address the issues of energy shortages in Africa as well as the skills deficit in an industry which is of vital importance to economic growth on the continent. A hub of teaching and research, the focus of the AELC is on the latest thinking and best practice in energy leadership.

The three main areas of the African Energy Leadership Centre are:

1. Postgraduate and executive education
2. Research and thought leadership
3. Networking and professional development

The AELC offers a specialised Master's degree and a Postgraduate Diploma in the field of Energy Leadership. Both programmes will provide you with a solid foundation in all aspects of energy leadership in order to make you a more confident, decisive and effective leader in this sector.



PROGRAMME BASICS

Duration: One year
Level: NQF 8
Study mode: Block release

PROGRAMME STRUCTURE AND OPTIONS

The programme comprises 12 compulsory courses. Teaching is provided on a block release basis to accommodate the needs of busy working professionals (five blocks of nine days on campus plus home study or online if circumstances require). The programme is completed within a maximum of 12 months.



CORE COURSES

1. Energy Value Chains

This course provides an introduction to energy demand as it relates to the primary energy carriers and their value chains including concepts and units used in measuring energy carriers. It examines the changes and transitions in primary energy value chains from consumption to extraction.

2. Energy and Environmental Sustainability

This course interrogates decision-making trade-offs between energy carriers and environmental sustainability within a context of climate change, international market interventions and changing consumer preferences.

3. Leadership Fundamentals

This course gives a broad overview of leadership and allows leaders an opportunity to apply the basic concepts of teams and teamwork in practice. It includes leadership theory and mindsets that determine effective leadership.

4. Energy, Finance, Business Strategy and Investment

This course introduces corporate and project financing structures – together with risks and enabling contracts in the context of business strategy. Candidates will undertake financial modelling.

STREAM A - ENERGY STREAM

1. Energy Geography, Geopolitics and Macroeconomics

This course examines and evaluates energy supply and demand from a global perspective. It reviews the historical development of energy resource endowments and international trade as influenced by strategic, geopolitical, economic, and environmental concerns and ambitions.

2. Strategic Management of Energy Innovation

This course equips candidates with strategic management knowledge and skills to address new and emerging technologies for extracting, transporting, and delivering energy services to customers.

3. Ethics and Corporate Governance

This course provides candidates with an introduction to sound corporate ethics and corporate governance including systems of management and procurement in relation to energy investments.

4. Talent Management Fundamentals

This course provides candidates with an introduction to local and international best practices in the field of energy talent management. It explores core components of the energy talent management value chain and how to succeed in attracting and keeping talent.

5. Introduction to Energy Policy and Regulation

This course introduces a broad conceptualisation of regulatory policy and economic regulation. Themes include regulatory dispensations for energy infrastructure and access to energy infrastructure markets.

6. Energy Entrepreneurship and Enterprise Development in Africa

This course provides an introduction to the theoretical and practical issues associated with energy entrepreneurship and developing energy enterprises in Africa.

7. Energy Decarbonisation Fundamentals

This course provides candidates with an understanding of the primary methods used to reduce carbon emissions from energy carriers. It is designed to equip students with insights into transforming energy systems into lower emission systems.

8. Introduction to Systems Thinking in Energy Environments

This course provides students with an overview of systems thinking within energy environments that require students to see and make connections between solutions, systems and society.

STREAM B - ELECTRICITY STREAM

1. Electricity Supply Industry Fundamentals, Policy and Regulation

This course provides an overview of the core functions, operational principles and practices, of the Electricity Supply Industry (ESI) and Electricity Distribution Industry (EDI). It includes a review of the high-level policy and regulatory requirements applicable to each segment of the electricity market.

2. Technical Fundamentals of Electricity Power Systems

This course provides an overview of the basic technical and engineering functions of power systems, at an appropriate level of technical detail for policymakers and utility executives. It develops a foundational and contextual understanding of existing and emerging power sector technologies and system integration issues.

3. Energy Sector Governance, Policy Design and Implementation

This course provides an overview of electricity supply industry policy making processes in SA and the implementation thereof, including the fiscal consequences of various policy options (state owned companies and privately owned companies) with a view towards financial sustainability for the industry.

4. Fundamentals of Utility Business Management and Operational Efficiency

This course focuses on developing an essential understanding of the key principles and good management practices that drive business sustainability of electricity utility businesses. This includes a focus on utility revenue management and collection, as well as an overview of utility licensing conditions.

5. Fundamentals of Utility Oversight

This course develops an understanding of the fundamentals of policymaker oversight practices for electricity utilities. It covers utility revenue management and collection, utility asset management, utility ring-fencing, and utility performance benchmarking.

6. Tariff Methodologies and Tariff Design

This double course examines the fundamentals of utility tariff methodologies, and the various types of rates and tariff structures that can be employed to charge customers. It covers revenue requirements, base generation tariffs and Levelised Cost of Electricity (LCOE) calculations, cost of supply principles, tariff orders and case studies

7. Power Market Organization, Restructuring and Transformation

This course develops a foundational understanding of how power market's function and can be organized, reformed, and ultimately transformed. Candidates are exposed to concepts such as vertical, horizontal unbundling, competition across various market segments, and the role of privatisation, and good practices for governance during transitions.

APPLICATION PROCESS

- Only online applications are accepted. Please go to www.wbs.ac.za and click on the apply now button and follow the links.
- Please ensure that all information is correct and that you have uploaded everything on the checklist.
- Should your application be successful, an amount of R15 000 will be payable on acceptance. This amount is non-refundable and will be off-set against the registration fee payable in your first year.

**Deadline for applications:
check website for update**

REQUIREMENTS FOR ADMISSION

- Bachelor's degree (NQF 7). In exceptional cases, non-degreed individuals with working experience are considered.
- Mathematics and English – a level of above-average competence.
- Two years' appropriate work experience. In certain cases exceptions are considered. A written motivation must be provided.
- Candidates short-listed may be required to complete admissions tests at their own cost.

PDM-EL FEES

Fees for the Postgraduate Diploma in Energy Leadership for 2024 are quoted as **R81 240***

* subject to review in January 2025

ENQUIRIES

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WBS reserves the right to change its schedule as required.

Please note: WBS processes applications for admissions on a continuous basis in the order of receipt thereof.

Checklist

- Online application form
- Faculty of Management Part III form
- Copies of all degree certificates
- Academic transcripts in English
- SAQA Evaluation certificate (for international students)
- Your CV including places of work to substantiate work experience
- Letter of motivation in support of application
- Non-refundable fee of R200

FOR NON-DEGREE PURPOSES:

- The admission requirements are the same as for degree purposes.
- Candidates must do the assignments and write the exam for any course. Successful candidates will be awarded a course credit that could be used if they register for a degree at Wits in subsequent years

Apply here: <https://forms.office.com/r/J8hw4mRp91>

CERTIFICATE OF ATTENDANCE:

- Preference will be given to applicants that register for all seven courses.
- Candidates will NOT do the assignments nor write the exam for any course. The admission requirements are at least matric level competency in mathematics and English plus two years appropriate work experience.
- In certain cases exceptions are considered if a written motivation is provided.

Apply here: <https://forms.office.com/r/J8hw4mRp91>

APPLY ONLINE

Spending time in this learning environment, surrounded by exceptional people, will provide you with the foundation for an extraordinary life

WHAT IS THE WBS CASE CENTRE?

In line with the world's leading business schools, WBS has its own Case Centre which produces a collection of fascinating, contextually-relevant and up-to-date case studies every year. The case method, pioneered by Harvard Business School, is widely recognised as *the* most powerful learning tool for management students. WBS's case studies tell the stories of some of the continent's most famous (and infamous) business leaders and organisations, giving our students the unique opportunity of playing the decision-maker role in a real-life business dilemma.

TEACHING EXCELLENCE

Apart from our full-time faculty, we have a number of visiting/adjunct professors from other business schools around the world. Numerous guest lecturers bring their up-to-the-minute business or industry knowledge into the classroom.

PUBLIC DIALOGUE, DEBATE & DISCUSSION

WBS hosts regular public seminars and panel discussions on energy issues facing South Africa and the rest of the continent.

There is no better time or place for you to become all that you want to be

experience



What attracted me to Wits Business School was my pursuit to broaden my knowledge of the energy industry and the high credibility that the institution has. The programme has challenged me to step out of my comfort zone as I now able to interact with various people from different organisations and vast experience and knowledge. This has improved my level of engagement and networking ability.

The PDM in the field of Energy Leadership has met expectations as I am now able to channel my career in a direction that suited my interests and has more potential for growth. The programme has also moulded me for the future as I am now pursuing the Masters in Energy Leadership and I look forward to completing my research.

Lethhigonolo Tsoai

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WITWATERSRAND,
JOHANNESBURG



WBS Wits
Business
School
Sculpting global leaders

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