

AFREC–IEA Joint Webinar on Energy Security Data: "Securing Africa's
Energy Future: Building Robust Energy Security Data Systems"

Building Trustworthy, Timely Energy Security Data Systems – Case of Uganda

by

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09/10/2025

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Energy Sector Overview

Mandate: To establish, promote the development, strategically manage and safeguard the rational and sustainable exploitation and utilization of energy and mineral resources for social and economic development

Vision: To be, “A model of excellence in sustainable management and utilization of energy and mineral resources”

Mission: To ensure reliable, adequate and sustainable exploitation, management and utilization of energy and mineral resources in Uganda

Roles and functions:

- ✓ To provide policy guidance in the development and exploitation of the energy and mineral resources.
- ✓ To create an enabling environment in order to attract investment in the development, provision, and utilization of energy and mineral resources.
- ✓ To acquire, process and interpret technical data in order to establish the energy and mineral resource potential of the country.
- ✓ To inspect, regulate, monitor and evaluate activities of private companies in energy and mineral sectors so that the resources are developed, exploited and used on a rational and sustainable basis.

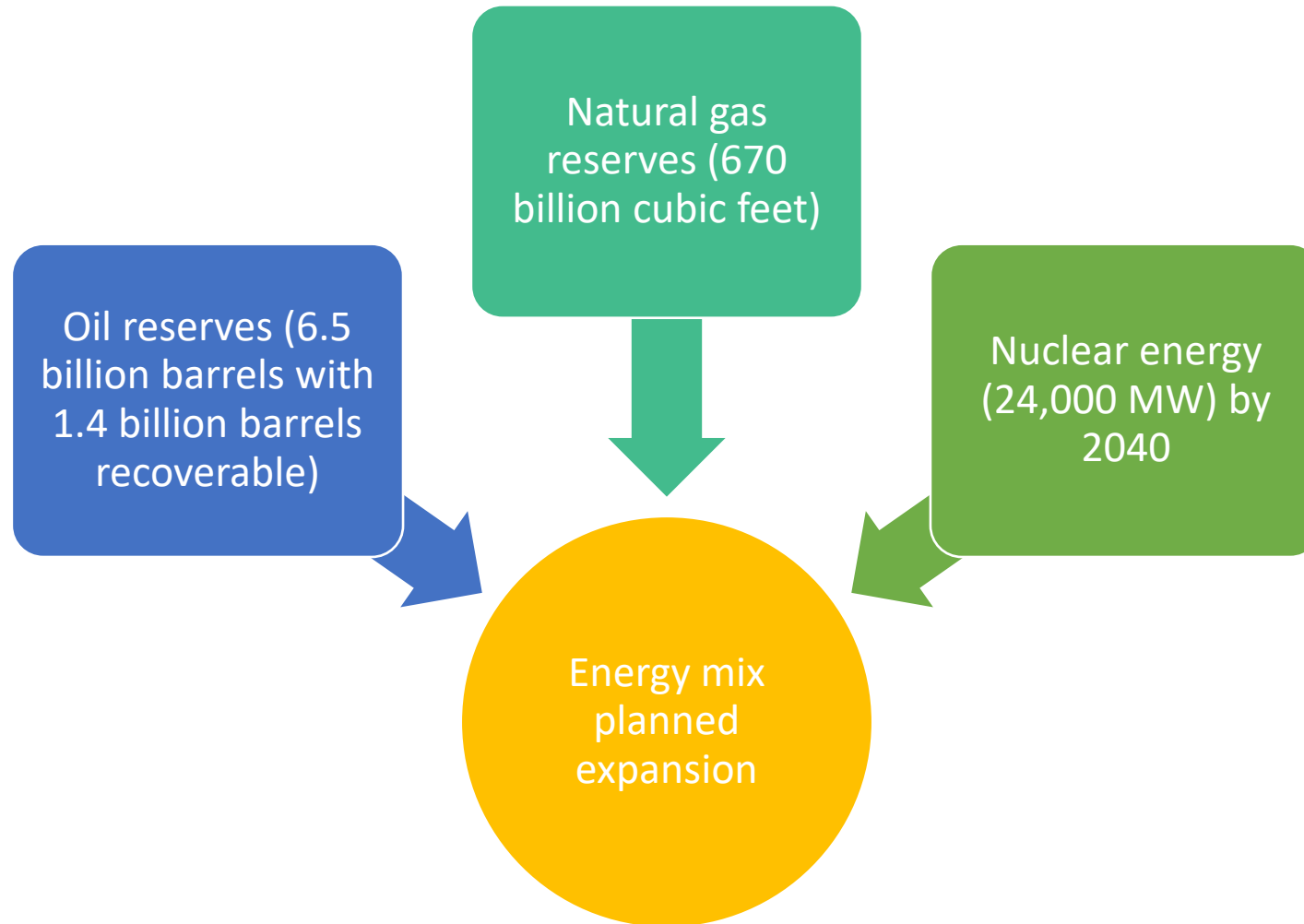
Energy Supply Adequacy



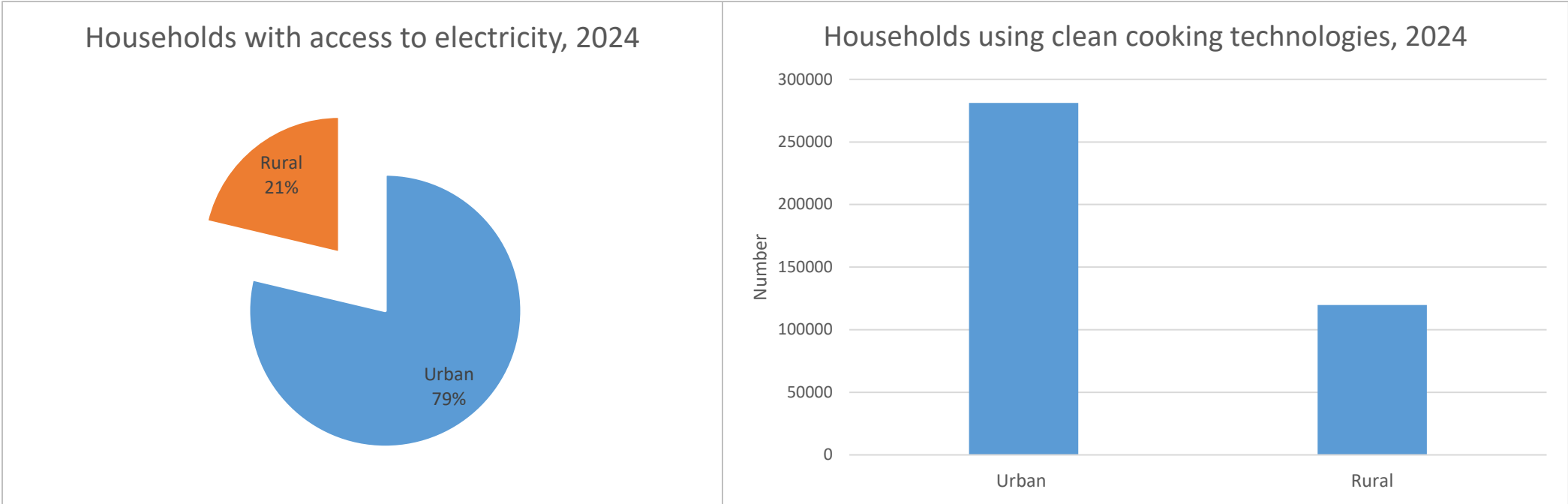
Share of renewables and non-renewables in total energy production

Domestic energy production vis-à-vis imports

Energy Sources Diversification



Access to Modern Energy Services



Data source: National Population and Housing Census, 2024

Access to Modern Energy Services



LPG: The Government is implementing a project for distributing 1 million LPG cylinders by subsidizing the price of both the gas and the cooking kit.

Energy Efficiency

Indicator	Unit	Value
Total Energy Consumption Per Capita	kgOE/a	361
Total Electricity Consumption Per Capita	kWh/a	105.58
Energy Intensity (Total Final Energy Consumption Per GDP)	KgOE/\$1,000 GDP	288.9
Energy Intensity (TPES and GDP)	KgOE/\$1,000 GDP	418.8

Source: Uganda Energy Balance, 2024 (Derived indicators)

Sector Specific Energy Intensity

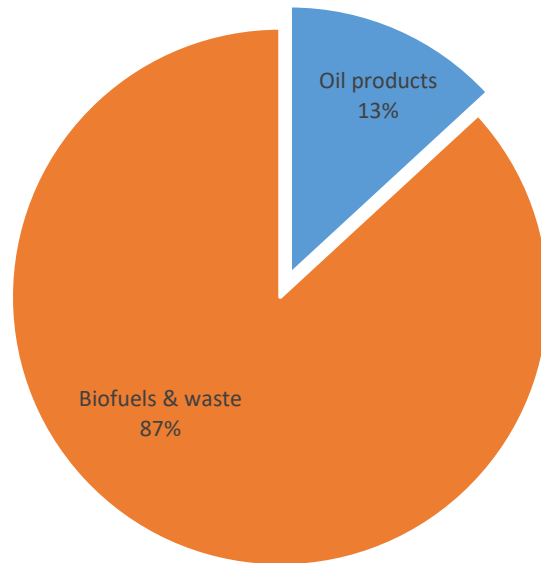
Sector	KgOE/\$1,000 GDP
Industry	34.65
Transport	25.74
Households	143.24
Commercial	81.60
Agriculture	3.62

Amount of energy consumed by each specific sector per \$1000 of GDP

Source: Uganda Energy Balance, 2024 (Derived indicators)

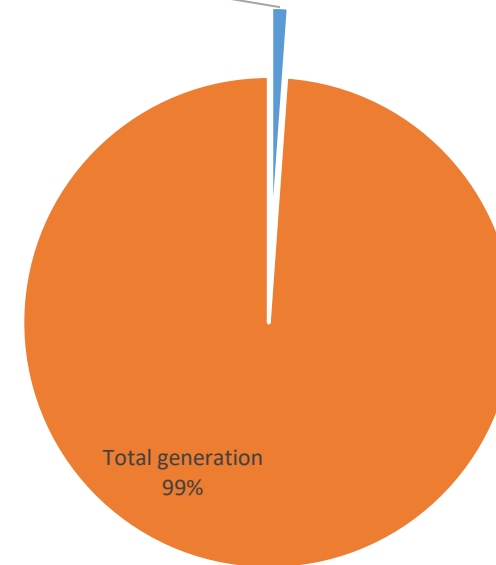
Renewable Energy Share

Renewable energy share, 2024



Renewable electricity share in total generation, 2024

Non renewable sources of electricity
1%



Legal and institutional framework for energy security

- The National Energy Policy for Uganda (2023)
- The Electricity (Amendment) Act, 2022
- Electricity Connections Policy (2018)
- Renewable Energy Policy (2007)
- Biofuels Act (2013)
- Biomass Energy Strategy (2013)
- Energy Efficiency and Conservation Bill (2025)
- Petroleum (Exploration, Development, and Production) Act (2013),
- Petroleum (Refining, Conversion, Transmission, and Midstream Storage) Act (2013).
- National Electrification Strategy (NES) (2022)
- National Oil and Gas Policy (2008)

THANK YOU