

How will Uganda's energy system grow in 2040?

The power sector becomes the backbone of Uganda's energy systems, with all growth met by low-emissions sources. Electricity rises to become the single largest source of energy consumed by 2040, growing to reach 56% of total final consumption by 2050.

Can Uganda become a regional energy supplier?

Uganda has plans to develop nuclear power and is in Phase 2 of the IAEA's Milestone Approach, with plans to bring on the first facility in the early 2030s. A strengthened, interconnected grid is essential to Uganda's vision to become a regional energy supplier.

How will electrification impact the energy sector in Uganda?

Continued electrification delivers around 40% of the energy sector emissions reductions needed to reach net zero after Uganda peaks its emissions in 2040. The rest comes from switching to low-emissions fuels in heavy industry, aviation and road freight, as well as introducing CCUS.

How much energy will Uganda use in 2050?

In the ETP, electricity consumption grows faster than any other source of energy at 14% annually, bringing Uganda from almost 80 kWh per capita today to around 1 750 kWh per capita in 2050, reaching above levels in Egypt today. Oil demand grows threefold, reaching almost 125 kb/d by 2050, driven by rapidly rising freight and passenger transport.

What role does geothermal and hydro play in Uganda?

Hydro and geothermal resources together meet over one-quarter of generation by 2050 and, along with battery storage, play an important role in integrating solar and wind. Uganda has plans to develop nuclear power and is in Phase 2 of the IAEA's Milestone Approach, with plans to bring on the first facility in the early 2030s.

What is Uganda's energy plan?

The objectives of the plan, stated by Uganda's Ministry of Energy and Mineral Development (MEMD), are: Provide universal access to electricity and cleaner cooking by 2030. Modernise and diversify Uganda's energy mix and promote its efficient use across all sectors to support industrial growth, poverty reduction and socio-economic transformation.

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The energy crisis in Uganda has caused a sharp decline in the growth of the industry sector from 10.8% to 4.5% between 2004/5 and 2005/6. This crisis has escalated the power disruptions, which have had adverse effects on various ...

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