

Economies

at a glance | October 2025

Powering the future

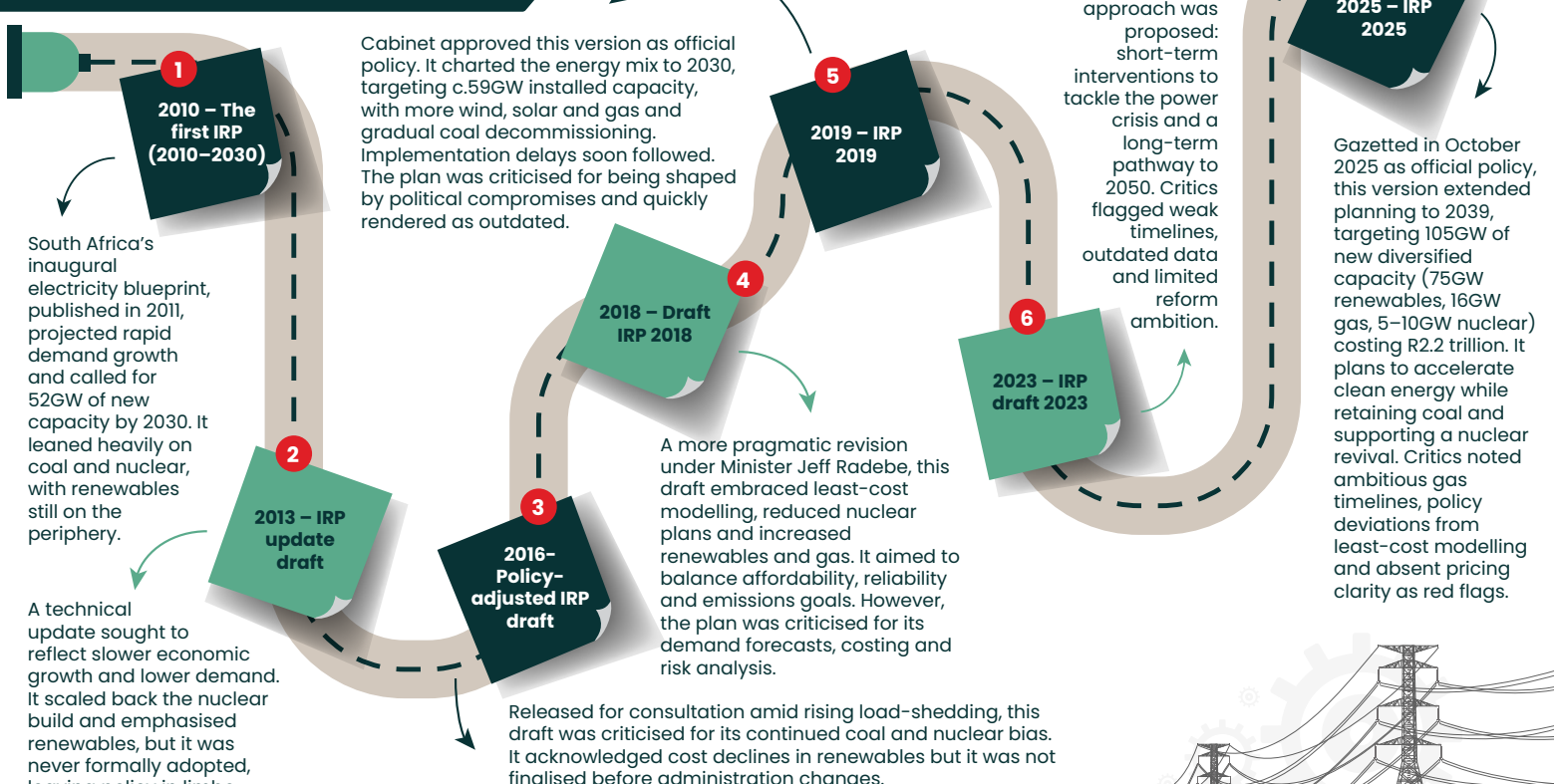
Inside South Africa's 2025 energy blueprint



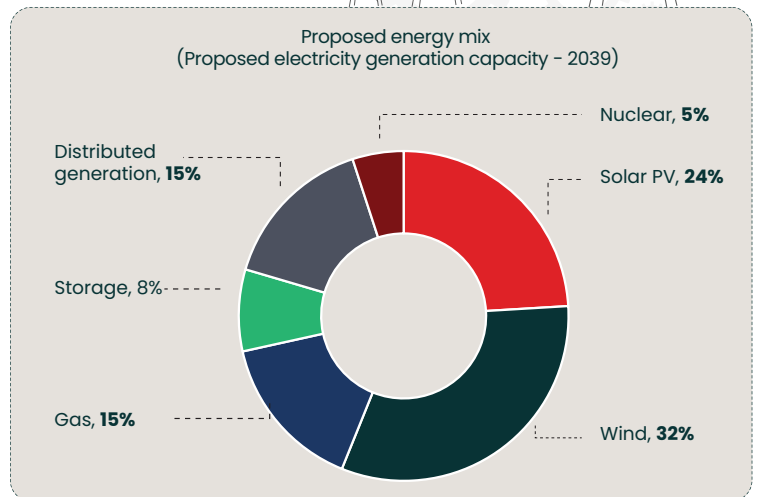
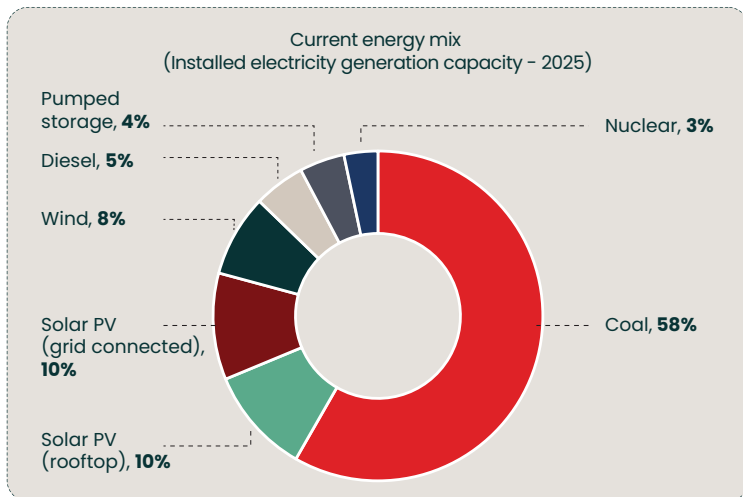
The power plot: What is the IRP 2025?

The Integrated Resource Plan (IRP) 2025 is South Africa's national electricity planning document. It was released in October 2025 by the Department of Mineral Resources and Energy. It serves as a roadmap for adding new generation capacity through 2039, focusing on reliability, affordability, sustainability and a shift from coal-dominated power to a more diversified mix of renewables, gas, nuclear and storage.

The IRP's shifting timelines



The big switch: Powering South Africa's next chapter



Watt's hot



- ✓ Catalyst for economic growth and job creation
- ✓ Renewables-led green transition
- ✓ Diversified energy security
- ✓ Investor confidence and regulatory reform
- ✓ Social and regional inclusion

Watt's not



- ✗ Ambitious timelines
- ✗ Infrastructure gaps
- ✗ Policy deviations from least-cost path
- ✗ Decarbonisation risks
- ✗ No clear affordability roadmap
- ✗ Implementation risks
- ✗ Market risks



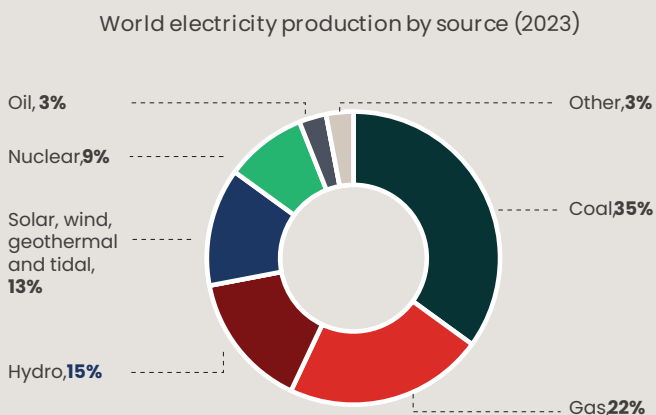
South Africa's nuclear gamble

Globally, nuclear energy is increasingly viewed as a low-carbon, reliable and long-term solution to meet growing electricity demand and climate goals. It provides stable baseload power, often operating for decades with high capacity factors, and contributes significantly to reducing greenhouse gas emissions. A number of countries, including the US, UK, France and China, are expanding or modernising their nuclear fleets to secure energy independence and support sustainable development objectives.

Meanwhile, nuclear adoption remains contentious and politically sensitive in South Africa. Concerned stakeholders highlight that nuclear, while dependable, entails economic, governance and timing risks. Projects are high-cost and slow to deliver, often spanning more than ten years and straining government finances. Procurement opacity from earlier deals, plus unresolved issues around waste, decommissioning and safety, add to the risks. Some argue the same investment could be directed toward renewables, storage and grid upgrades, offering faster and more cost-effective solutions.

Global nuclear trends

World electricity production by source (2023)



Asia is ramping up nuclear electricity production

