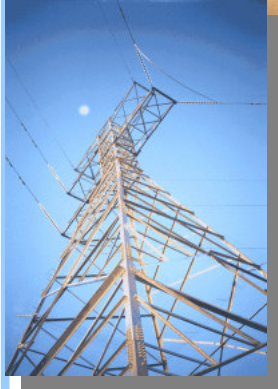


Electricity

About 17% of Namibia's energy consumption is for electricity, with less than 40% of Namibians having access to electricity. Namibia consumes about 3,000 GigaWatt hours per year and peak electricity demand is about 450 MW. Electricity is generated at the Ruacana Hydro Power Station (240 MW), Van Eck Coal Power Station (120 MW) and the Paratus Diesel Power Station (24 MW). This is insufficient to cater for Namibia's demand and about **50% of electricity is imported.**

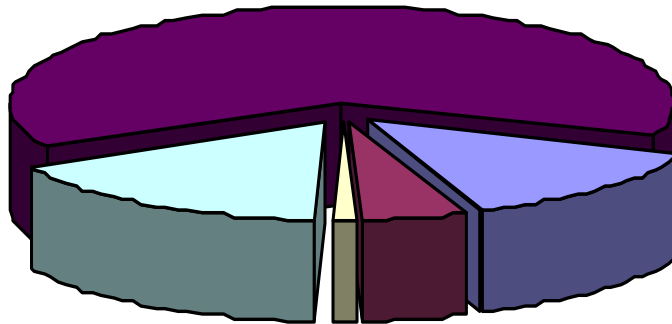


Liquid Fuels

Most of Namibia's energy consumption is for liquid fuels, which includes petrol, diesel, paraffin, heavy fuel oil and aviation fuel. Liquid fuels are used extensively in the transport, fishing and mining sectors as well as for water pumping and small to large-scale electricity generation. **Liquid fuels are 100% imported.**



Energy Consumption in Namibia, 2000



- Biomass 14%
- Coal 5%
- Solar 1%
- Electricity 17%
- Liquid Fuels 63%

Solar

Only very little of Namibia's solar energy resources are used. Solar energy is mostly used for water heating (about 2 MW installed) in urban houses and for electricity generation in rural areas. Solar water pumping is also a viable solar technology for Namibia.



Coal

Namibia uses coal for electricity generation and for industrial boilers. The Van Eck Coal Power Station is the single largest user of coal. **Coal is 100% imported** from South Africa and transported by rail to Van Eck, which makes this energy source very expensive. The Van Eck Power Station costs N\$ 1 million per day to operate. Coal power stations contribute significantly to air pollution and global warming.



Biomass

Over 60% of Namibians depend on wood as an energy source. Although biomass is a renewable energy source, Namibia consumes over 200,000 tonnes of wood per year, which is resulting in deforestation and desertification in some areas. In informal settlements around towns, households spend about N\$ 90 to N\$ 120 every month to purchase wood just for cooking.

