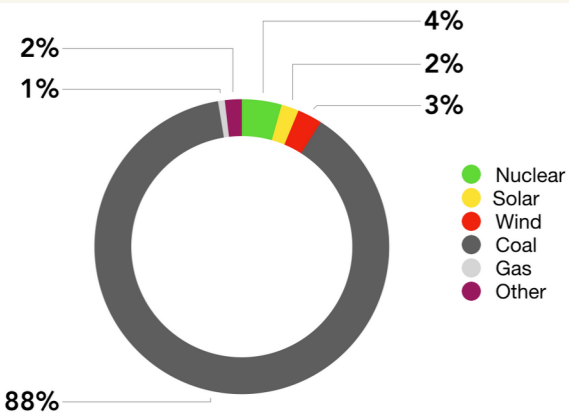




Nuclear energy is the only technology that can lift humanity out of poverty while protecting the natural environment.



SOUTH AFRICA'S ELECTRICITY MIX

Source: BP Statistical Review of World Energy 2019

Currently, South Africa is heavily dependent on fossil fuels. 91% of South Africa's electricity comes from energy sources like coal and gas.

Growing South Africa's nuclear fleet can change this.

Stand Up for Nuclear

is a day of demonstration created by the Nuclear Pride Coalition, an alliance of independent, grassroots civil society organizations and individuals who advocate for maintaining existing nuclear plants and expanding the global nuclear fleet.



standupfornuclear.org



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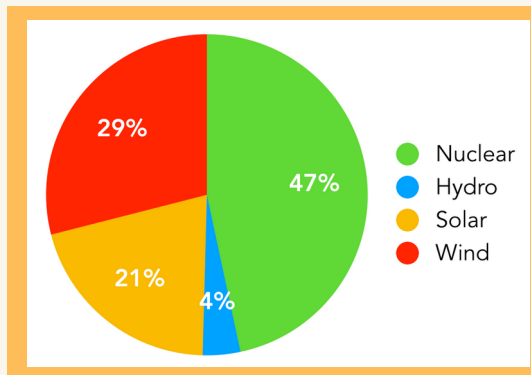
OCTOBER 20, 2019

Why Africa Needs Nuclear

- Africa is in desperate need of energy. Roughly 57% of the population of sub-Saharan Africa does not have access to electricity.
- Socioeconomic growth comes with a rise in energy demand—and a need for a **clean** and **reliable** energy supply.
- Nuclear Power is the only option that solves the "energy trilemma" -the environment, economics and security of supply. And South Africa is the only country in Africa that currently has nuclear energy.
- A third of the almost 30 countries currently considering nuclear power are in Africa. Amongst these are: Rwanda, Zambia, Nigeria, Ghana, Kenya and Egypt. In South Africa, there is an active debate about including nuclear power in the country's electricity plan (Integrated Resource Plan). Balanced energy mix proponents are proposing the "People's IRP."
- The continent of Africa is rich in uranium and mineral deposits, making it a significant world producer of uranium.

SOUTH AFRICA'S CLEAN ELECTRICITY MIX

Source: BP Statistical Review of World Energy 2019



South Africa's 2 reactors, both located in Koeberg Nuclear Power Station, supply 47% of our nation's clean electricity.

What about the accidents?

All of the nuclear accidents demonstrate nuclear's relative safety.

- **Three Mile Island:** One of their reactors melted down and yet according to the studies conducted by several government agencies and independent groups, no adverse health effects occurred.
- **Chernobyl:** There was 50 confirmed deaths: 3 in the explosion, 28 firefighters due to ARS, 15 from thyroid cancers, and 4 liquidators in a helicopter crash. Additional cancer deaths from Chernobyl have not been observed.
- **Fukushima:** No deaths have resulted from radiation., There were 2,202 deaths from evacuation and 15,895 from the earthquake/tsunami (National Police Agency). Also, the UN Scientific Committee on the Effects of Atomic Radiation concluded that "no discernible increased incidence of radiation-related health effects are expected among exposed members of the public or their descendants."

By contrast, according to the WHO, **7 million premature deaths** occur each year from air pollution, caused by burning fossil fuels and biomass for energy. Replacing these sources with non-polluting nuclear-powered electricity would save millions of lives every year.



Koeberg Nuclear Power Station, Cape Town

What about the waste?

Nuclear waste is the best kind of waste from any form of electricity production. Most importantly, there is very little of it. It is easy to manage and is kept on site in most countries. Some countries gather it into single locations where it sits. Nuclear fuel is sometimes made from the waste but only some countries do this because new uranium is so cheap.

What exactly is the waste? What people are referring to when they talk about nuclear waste is the former uranium fuel rods. All of those rods stored in the same place would fit on a single football field stacked 30 meters high (gao.gov). The remaining issue is one of public acceptance, and not of technological feasibility. (world-nuclear.org)



Meanwhile

Solar panels produce ~300x more waste than nuclear reactors when providing the same amount of energy.

