

## NUCLEAR ENERGY

All those coal fired power stations that have closed down plus those that will close need to be replaced with something that is very efficient and clean.

The best and sensible one for one replacement of coal fired power stations is Nuclear with No atmospheric or greenhouse gas emissions and baseload electricity generated to suit demand every hour of every day.

Nuclear energy is the most efficient and reliable source of electricity

Using natural energy from the wind and the sun is very good but it is intermittent relies on weather conditions and hydro power relies on climate and dam levels and we cannot control that and we need clean baseload electricity generation that is clean and controllable in combination with natural green energy.

When Tasmania's dam levels are low or less than half full, they buy electricity from Victoria via the bass strait cable but it can't happen when the next major coal fired power station closes down.

Rooftop solar systems are very good for local generation and there are now 3 million roofs with solar PV systems with a total of 17 gigawatts of installed capacity but they cannot generate at night.

A large scale wind farm costs more than a nuclear power plant and has a much larger footprint and of course relies on sufficient wind to blow.

There are 440 nuclear power stations/ power plants around the world in 32 countries and another 55 under construction and is the most reliable and most efficient source of electricity. Today's plants save around 2.5 Billion tonnes of CO2 emissions per year.

We can use Thorium instead of Uranium for nuclear energy and Australia has the world's largest reserves of both.

The latest generation of nuclear reactors are very efficient and very safe and nobody died at Fukushima and the silly scaremongering from political parties and the greens must stop if they are really concerned about greenhouse gasses and other atmospheric emissions and climate change.

As far as disposing and storage of radioactive waste is concerned, this country comprises of 40% desert so there is plenty of places to store this stuff inside lead vaults underground like they do in Sweden.

In fact, over 95% of nuclear waste is renewable and can be reprocessed and used again.

The federal government wants nuclear powered submarines so why not nuclear electricity?

The only real alternative to replace large coal fired power stations one for one is Nuclear and should be part of the 4 Clean Energy Mix combined with Wind, Solar and Hydro and phase out coal fired generation altogether.

Patrick Geeves

[REDACTED]  
Harristown, QLD, 4350  
[REDACTED]