

The Thorium Network of Switzerland

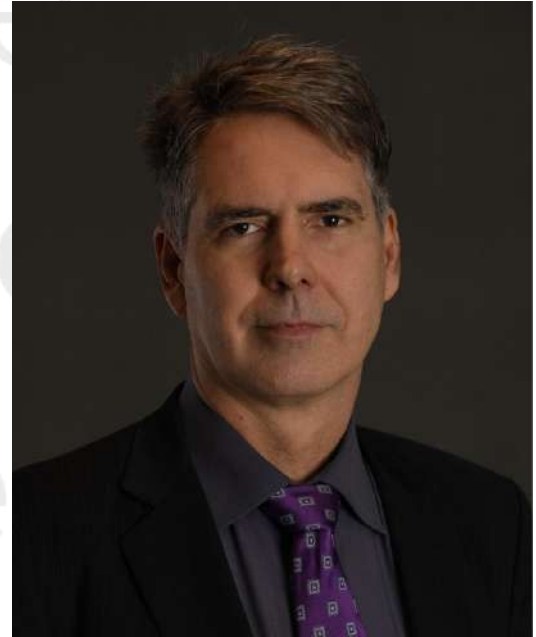
Liquid Fission Thorium Energy
Technology

A New Safety Paradigm

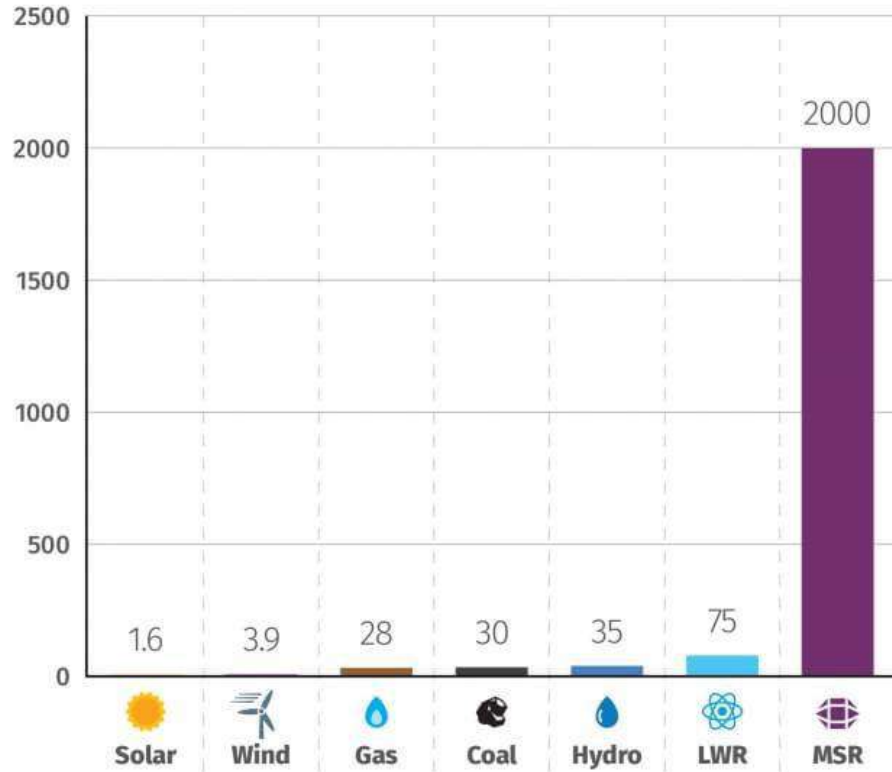
Engineers Australia

15 February 2022

By Jeremiah Emanuel Josey



Estimated Return on Investment in energy systems (E_{OUT}/E_{IN})



Source: ?

A New Safety Paradigm -Technically Superior

- + Doppler Broadening - self regulation of fission;
- + No pressure - no stress;
- + Leaks => solid glass, so gases, no liquids;
- + Thin walls - easy manufacturing, easier attainment of quality work;
- + Smaller areas - lower forces to contain;
- + No meltdowns - no problems (no Three Mile Island);
- + Load following - (no Chernobyl);
- + No water - no hydrogen (no Fukushima);
- + Tiny environmental footprint for fuel production
- + No waste* (*within the measurements of comparable energy systems (1GW: 500 kt coal ash vs 0.8t)

A New Safety Paradigm - Shifting from Old

- + Linear No Threshold Model for Radiation Effects
- + Existing business models - solid fission, fossil fuels
- + Utopia energy - wind and solar (EROI < 7:1)
- + Disbelief that it can be so easy

Purpose today, not to convince a shift, but to convince consideration of shifting. Down gearing. Rolling back. To step up and make it happen.

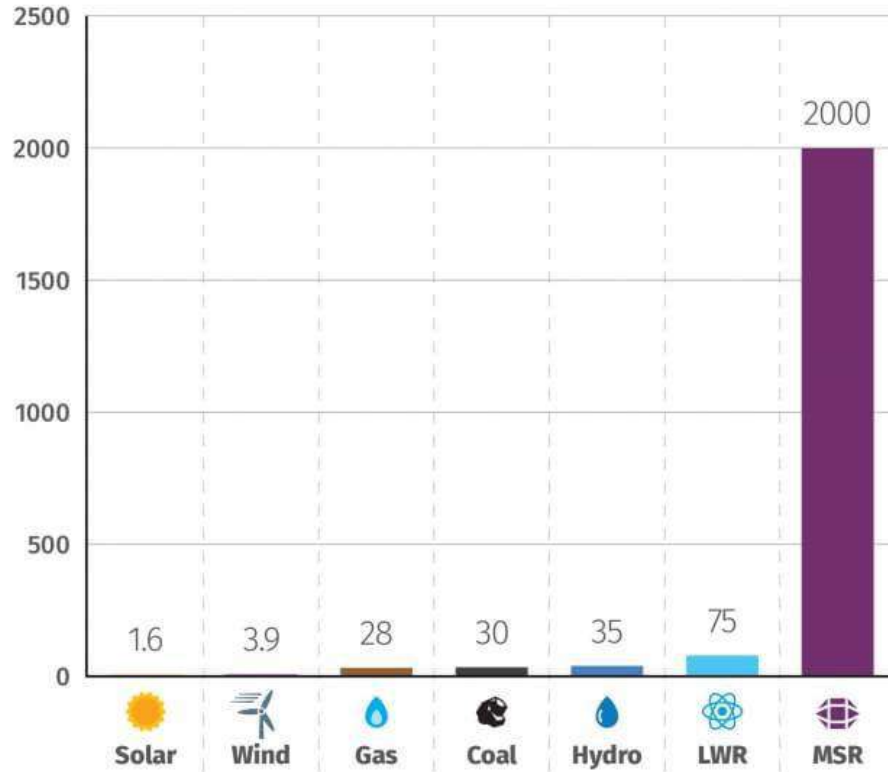
Read [The Big Deceit](#) to learn more

The Thorium Network - What We Do

Accelerate the adoption of Thorium based Molten Salt Fission Energy Technology™

- + [SAFE Fission Consult™](#), including former head of Westinghouse and Toshiba Energy Systems, former IAEA, NRC, ASN directors, former directors of country nuclear agencies
- + **Rare Earths Element** Production @ USD 9 / kg vs USD 30 / kg
- + **Fluorochemicals** Production, 2 billion dollar partners
- + **Neutronics Modelling**
- + **Supercritical CO2** for Power Production
- + **Statesmanship**, including **fundraising** - developing country energy plans
- + [Honey Badger™](#) Isotopes on blockchain

Estimated Return on Investment in energy systems (E_{OUT}/E_{IN})



Source:

ANSTO

**Australia's Nuclear Science and
Technology Organisation**

See their webpage for this chart:

<https://www.ansto.gov.au/our-science/nuclear-fuel-cycle/advanced-nuclear-reactors/evolution-of-molten-salt-reactors>

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