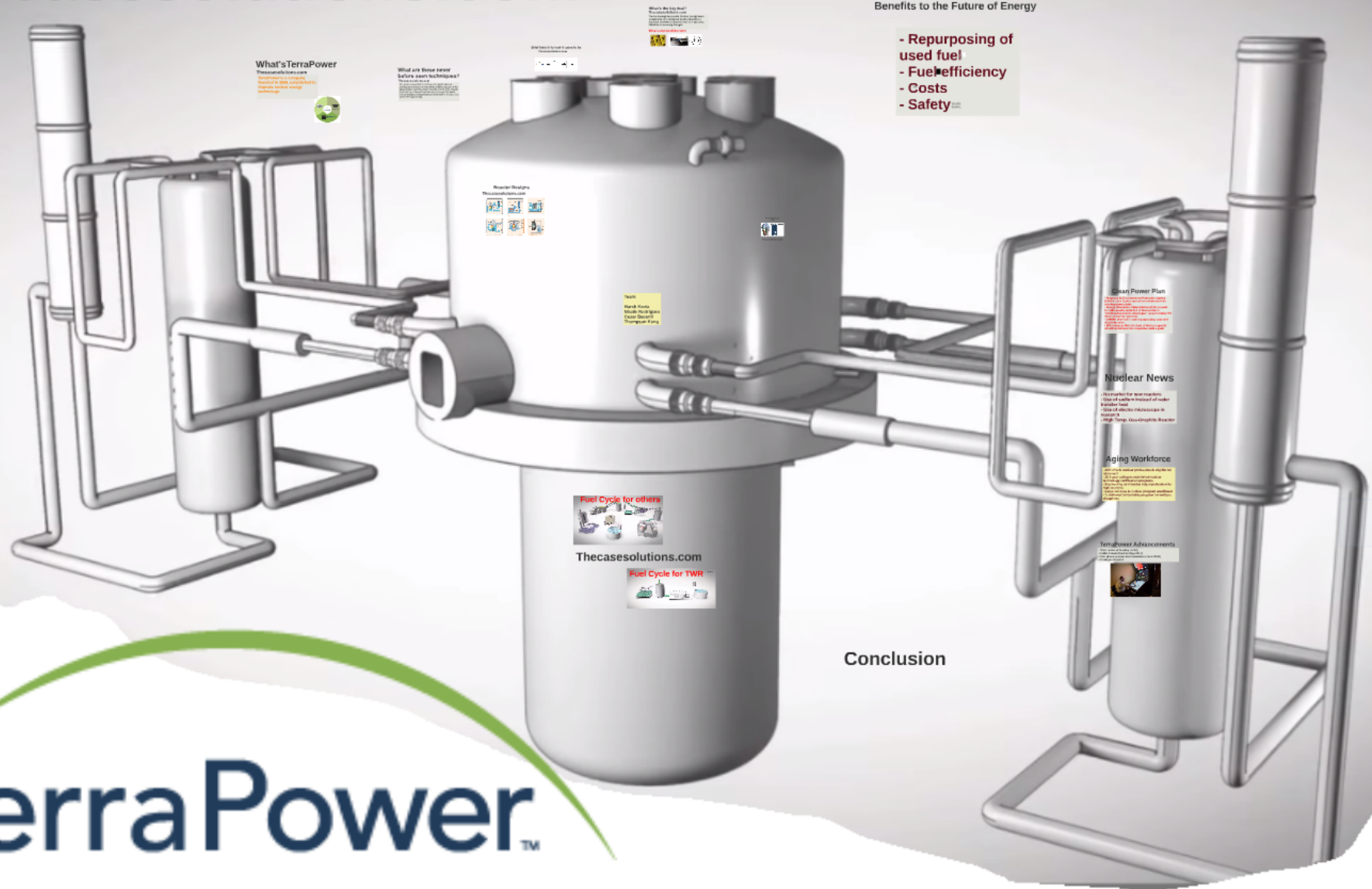
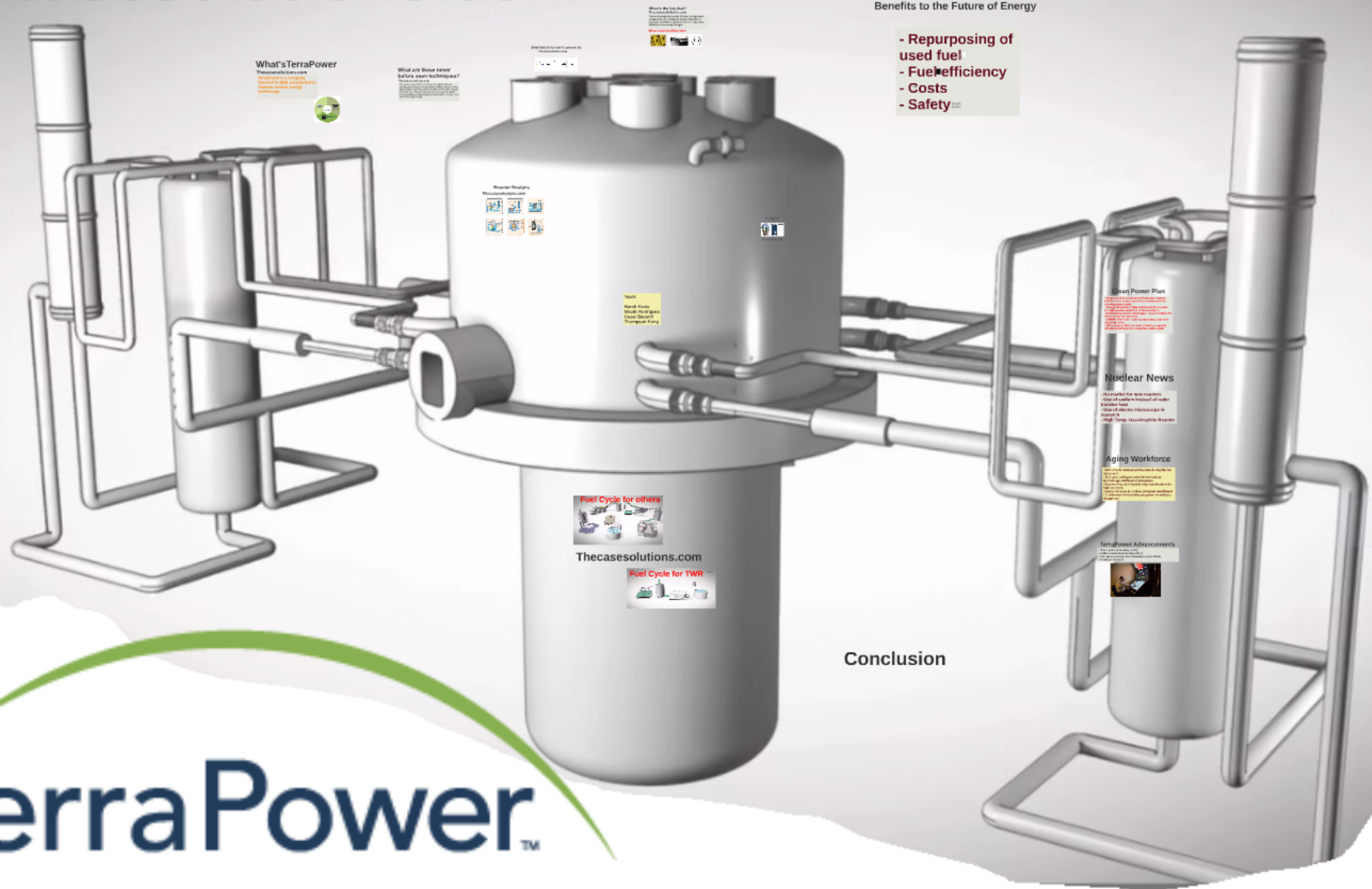


Thecasesolutions.com



TerraPower™

Thecasesolutions.com



TerraPower™

What's TerraPower

Thecasesolutions.com

TerraPower is a company founded in 2008, established to improve nuclear energy technology.



What are these never before seen techniques?

Thecasesolutions.com

The main reason that TerraPower is significant and making great strides in industry is simply because of the outstanding Travelling Wave Reactor (TWR). This reactor which will go into commercial use in the next 20 years with prototypes being projected to be built in 5 years, is a marvel of engineering.



Brief history to how it came to be

Thecasesolutions.com

**In 1956 Saveli
Feinburg came up with
the concept of a fast
reactor**



**In 1979 Brookhaven
National Laboratory
with Michael J. Driscoll
at MIT developed the
Fast-Mixed Spectrum
Reactor (FMSR).**



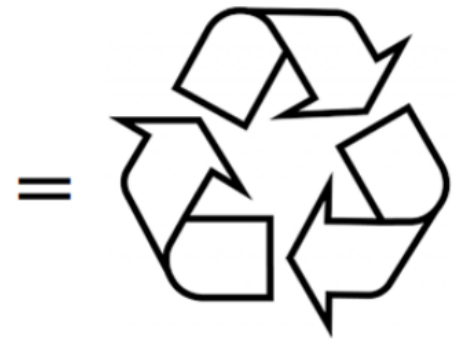
TWR

What's the big deal?

Thecasesolutions.com

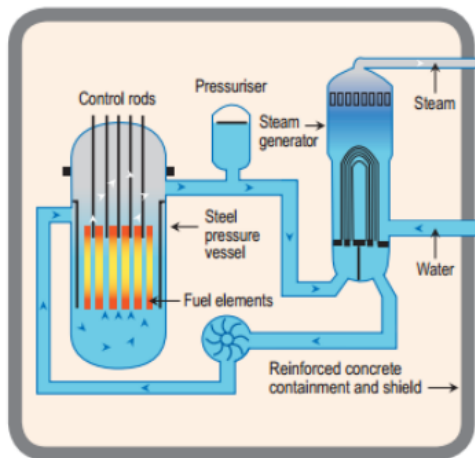
The technology may make Nuclear energy more sustainable. It is designed to directly convert depleted uranium to useable fuel, as it operates. Which is an amazing thought.

What is depleted Uranium?

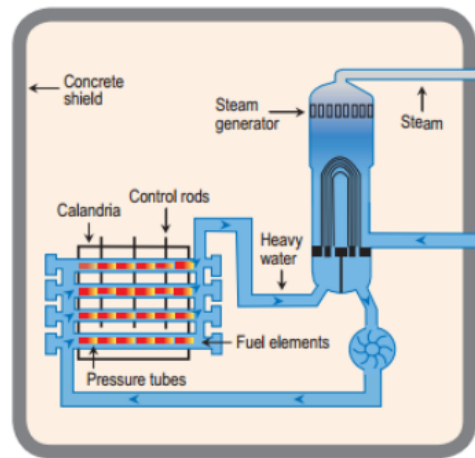


Reactor Designs

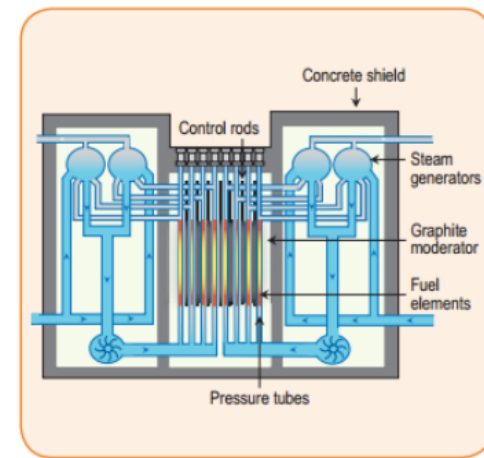
Thecasesolutions.com



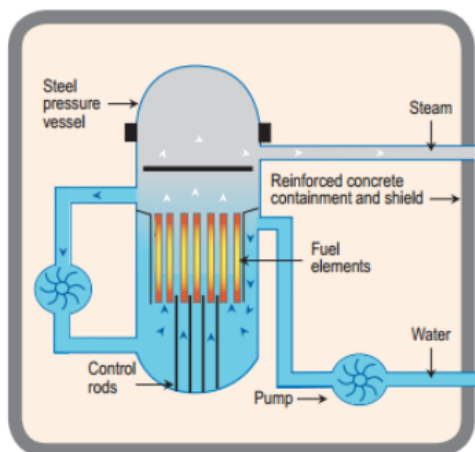
A typical Pressurized Water Reactor (PWR)



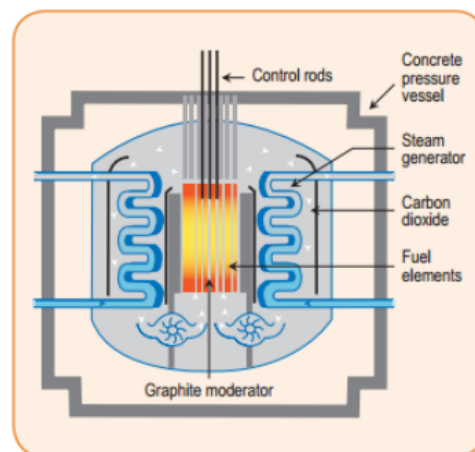
A typical Pressurized Heavy Water Reactor (PHWR/Candu)



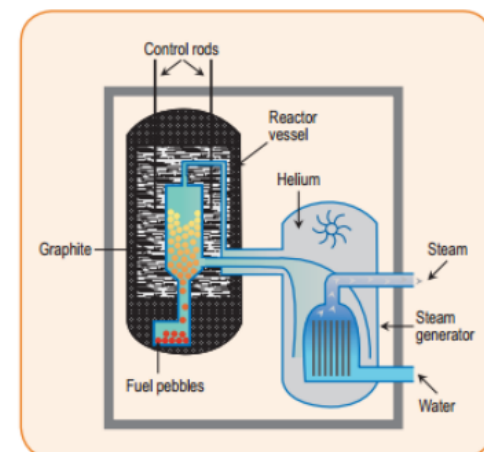
A Light Water Graphite-moderated Reactor (LWGR/RBMK)



A typical Boiling Water Reactor (BWR)

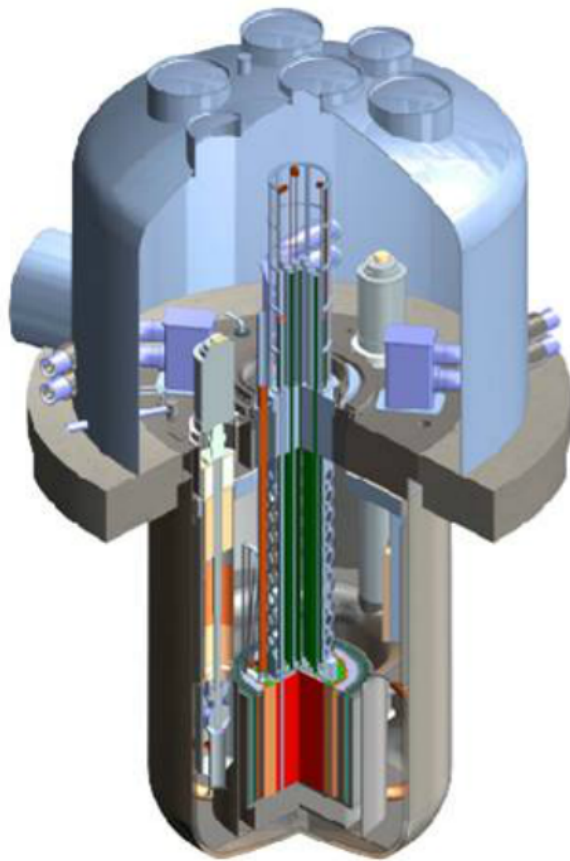


An Advanced Gas-cooled Reactor (AGR)



A High-Temperature Reactor (HTR)

Transfer Wave Reactor (TWR)

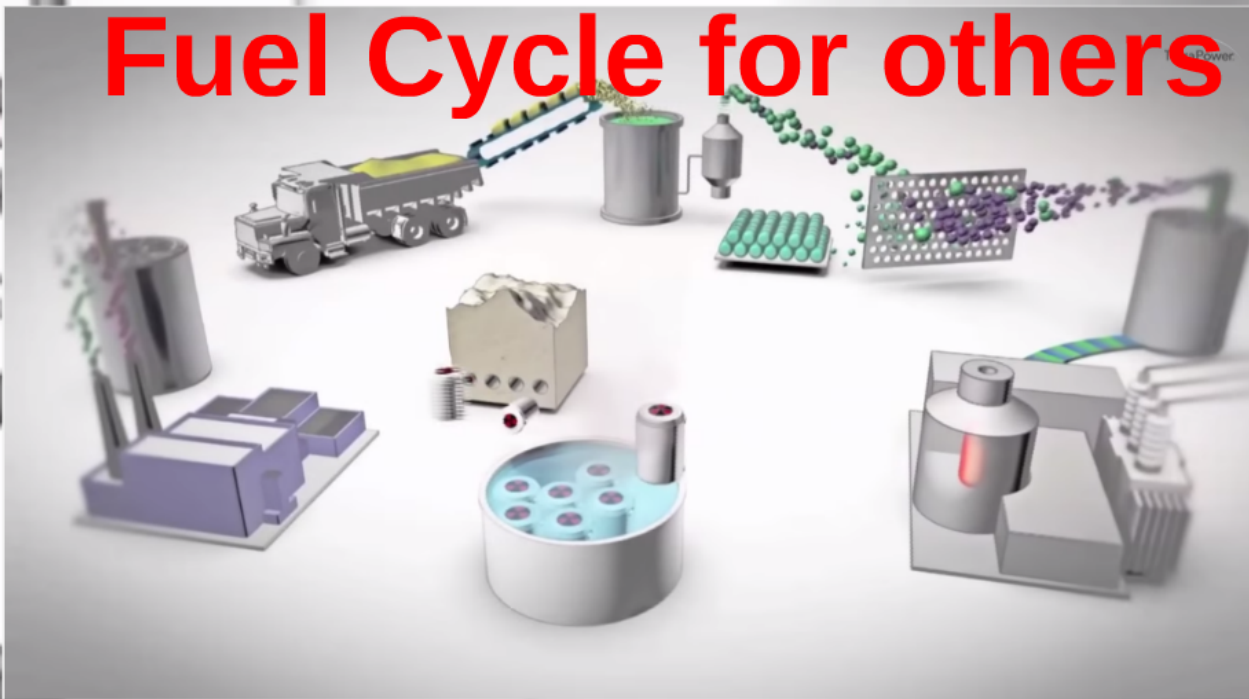


Turns depleted uranium into electricity, using a simple fuel cycle without requiring separations.

SIZE	~550 MWe
TEMPERATURE	~510°C
PRESSURE	Low (Atmospheric)
PRIMARY FUEL	Depleted Uranium
COOLANT	Sodium
ENERGY CONVERSION	Steam (Rankine Cycle)
WASTE REPROCESSING	Not Required
COMMERCIAL OPERATION	Late 2020s

Thecasesolutions.com

Fuel Cycle for others



Thecasesolutions.com

Fuel Cycle for TWR

