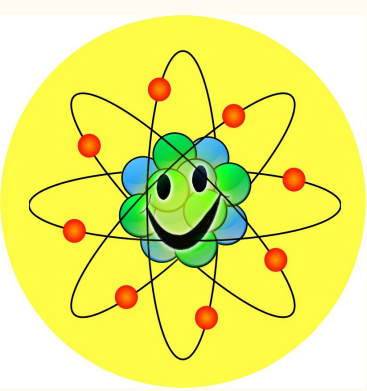


Nuclear/Uranium Energy

By: Alexander Sasha Vilesov and Russell Uyemura



History of Nuclear Energy

1939-Uranium atoms were split in a process known as fission to convert the atom's mass into energy.

1942- First nuclear chain reaction

1951- First useable electric power from nuclear energy source

1954-1956 - Soviet Union, France, and Britain also made their own nuclear power plants

1986 - Chernobyl

Nuclear Energies Effects on our Earth's Environment

Greenhouse Gas Emissions

Negative Effects of Accidents
at Nuclear Power Plants



Application to the Sciences

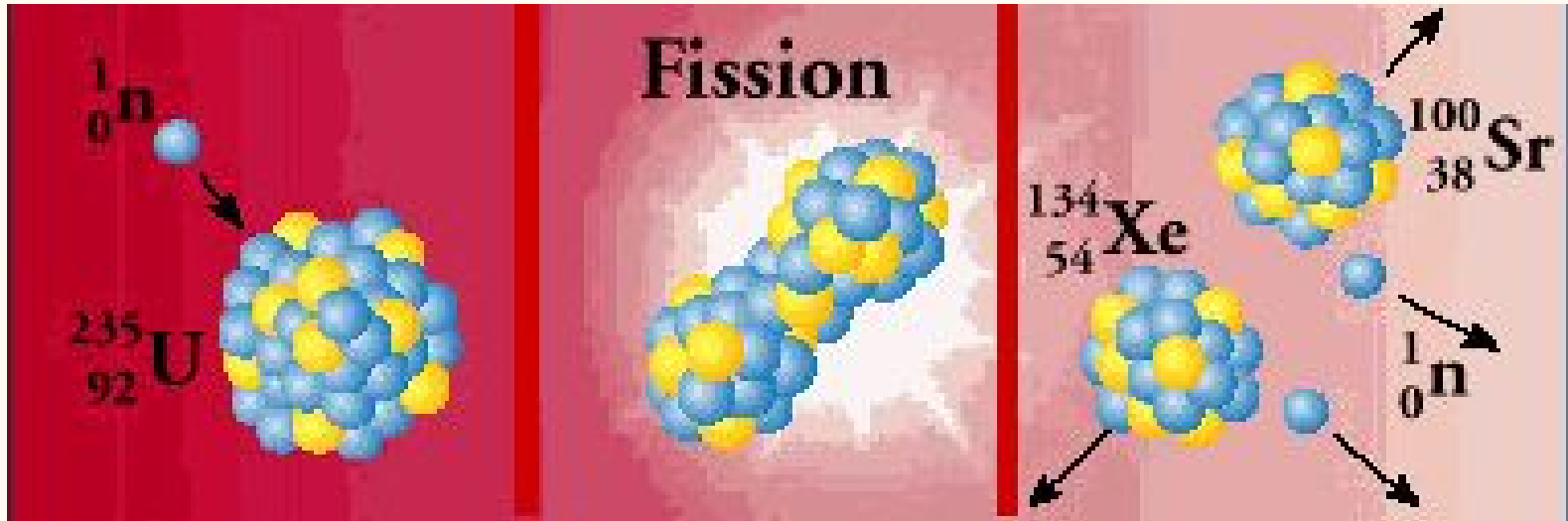
Nuclear Energy is the process in which Uranium atoms are split in half to produce massive amounts of energy. The force necessary to break the nucleus creates a ton of power.



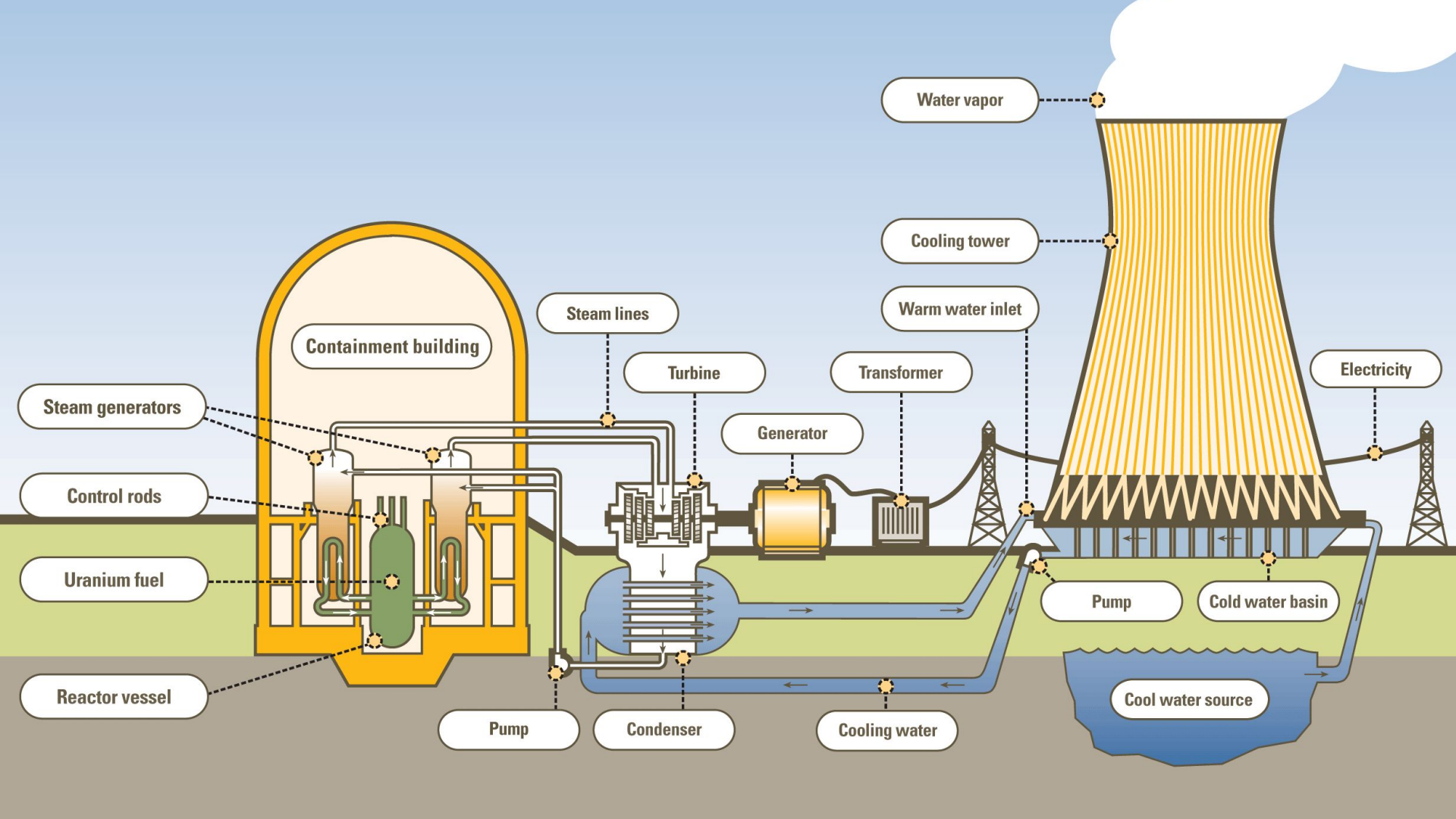
Nuclear Energy Efficiency

For every 1 gram of Uranium used about 1 MW is produced

This is the same amount of energy produced by 3 tons of coal or about 600 gallons of fuel oil!







Cons of Nuclear Energy

Radioactive Waste

Nuclear Radiation

High Cost

National Risk

Fuel Availability

Investing



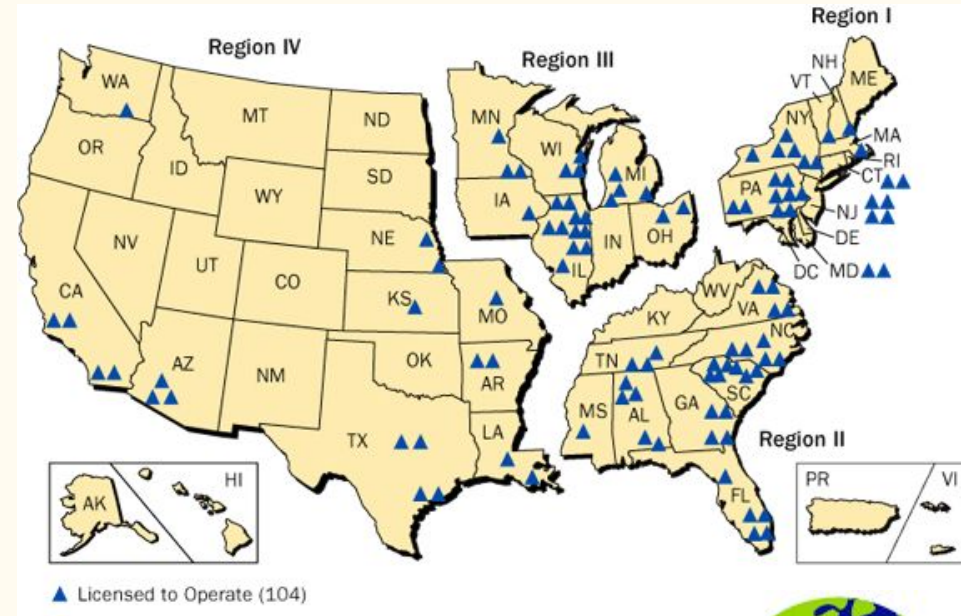
Nuclear Energy in the U.S.A and California

In the U.S.A there are:

- 61 Power plants
- 99 Nuclear Reactors

California:

- 2 Power plants
 1. Diablo Canyon
 2. San Onofre
- 4 Nuclear Reactors



There are 438 Nuclear Reactors in total and 67 more that are currently under construction



POP Quiz!! (for candy)

1. What are 3 shortcomings of Nuclear Energy?
2. What is the name of the process in which the atom's nucleus is split?
3. Briefly explain how Nuclear Power Plants produce electricity. :D