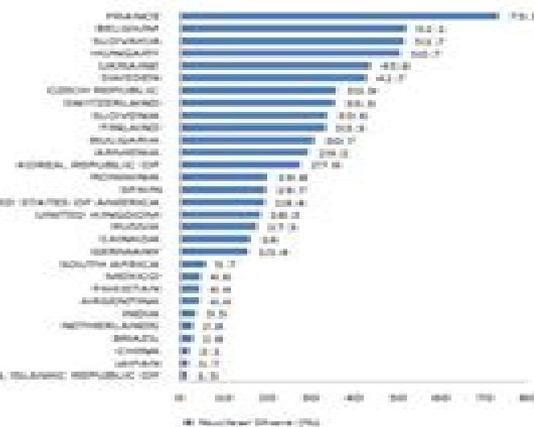




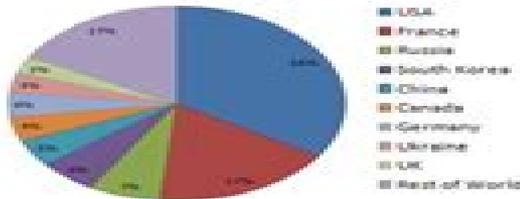
Nuclear Fact Sheet

Matthew Pigott
EGRS 352
Professor Nicodemus

World Statistics



Electricity Supplied (GWh)



Total Net Electrical Capacity (MW)



Nuclear Energy & the Environment

Emissions:

•Nuclear reactors produce neither air pollution nor carbon dioxide in operation.

Wastes:

•Include uranium mill tailings, spent reactor fuel, and other radioactive wastes.

•Spent radioactive fuel is initially stored in specially designed pools or dry concrete or steel storage containers until sufficient radioactive half-life decay levels are reached.

Land:

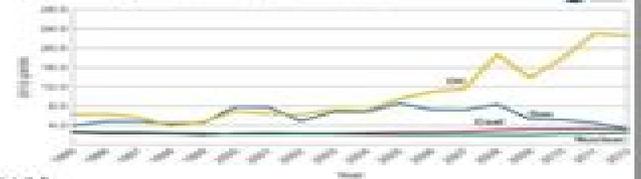
•To produce approx. 1,800 MW of nuclear power with two reactors, 1,100 acres of land is needed.

Economics

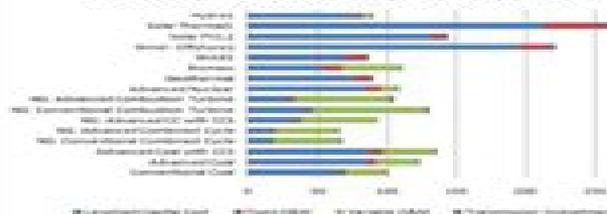
Costs:

- Costs of electricity are measured in cents per kWh.
- Capital costs – waste disposal and decommissioning of plants
- Fuel costs
- Insurance costs
- Operations and maintenance

U.S. Electricity Production Costs, 1995-2012



Total Levelized Cost by Energy Source (\$/MWh)



Nuclear vs. Other Energy Sources:

- Nuclear energy's cost ranges from 104.40 to 115.30 in \$/MWh.
- On average nuclear energy is the eighth cheapest energy source
- Of the top eight, geothermal technology is the only source with a greater capacity factor than nuclear (92% vs. 90%)

Technology

Pressurized Water Reactor-

•The water which flows through the reactor core is isolated from the turbine.



Liquid-Metal Fast-Breeder Reactor-

•The fission reaction produces heat to run the turbine while at the same time breeding plutonium fuel for the reactor.



Process:

- Nuclear energy results from the splitting of uranium atoms in a process called fission.
- Fission releases energy to make steam to power a turbine that generates electricity.

Types:

Boiling Water Reactor-

•The same water loop serves as a moderator, coolant for the core, and steam source for the turbine.



Nuclear Energy & the Community

Safety:

- U.S. Nuclear Regulatory Commission regulates the handling, transportation, storage, and disposal of nuclear wastes.
- Large range surrounding nuclear power plants is restricted and guarded by armed security teams.
- U.S. reactors have containment vessels designed to withstand extreme weather events and earthquakes.

Risk:

- The NRC uses Probabilistic Risk Assessment to evaluate overall nuclear energy risk.
- Risk is reduced by making an undesirable event less likely or by making its outcome less serious.

Nuclear Fact

**Thirumalaisamy P.
Velavancorresponding**



Nuclear Fact:

Nuclear Fact Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has are more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Nuclear Fact**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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