

It's here - the Nuclear Industry!



How Nuclear Energy Works



Impact of Nuclear Radiations on Humans



Existing Nuclear Plants in India



Proposed Nuclear Plants in India



Approximate Impact Area of Nuclear Accidents in India



OK, If Not Nuclear Then What? (Alternatives)



The Politics of Nuclear Energy in India



How You Can Contribute



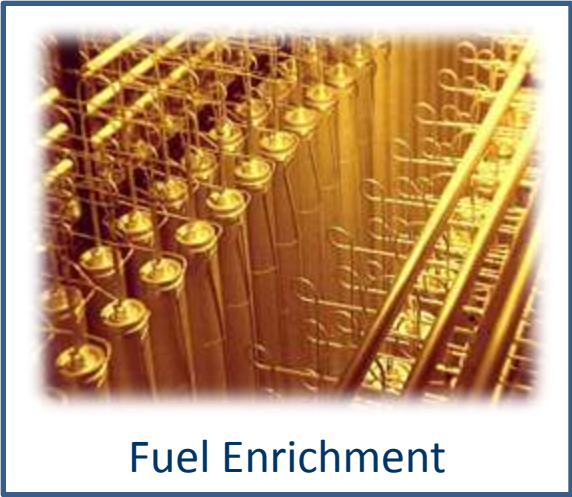
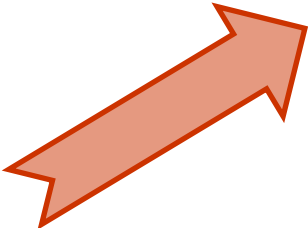
References

How Nuclear Energy Works

Radiation at EACH STAGE



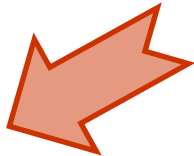
Uranium Mining



Fuel Enrichment



Power Generation



Waste Disposal

RADIATION INCREASES multifold at each stage!

Radioactive Waste

- Generated at each stage - *Mining, Enrichment, Power Generation*
 - Waste from Enrichment has been used in **Depleted Uranium (DU) bombs** used in Iraq
- Even 21st century science has **NO ANSWER** for Nuclear Waste Disposal
 - Waste contaminates (beyond scope for inhabitation) a huge area in its vicinity for **1000's of years**



Radiation Contaminates Always

- Even if there is NO NUCLEAR ACCIDENT
 - Around a Uranium Mine
 - Around an Enrichment Facility
 - Around a Nuclear Plant
 - Around Nuclear Waste



An area of **30-35 km radius** gets contaminated by nuclear radiation regularly!

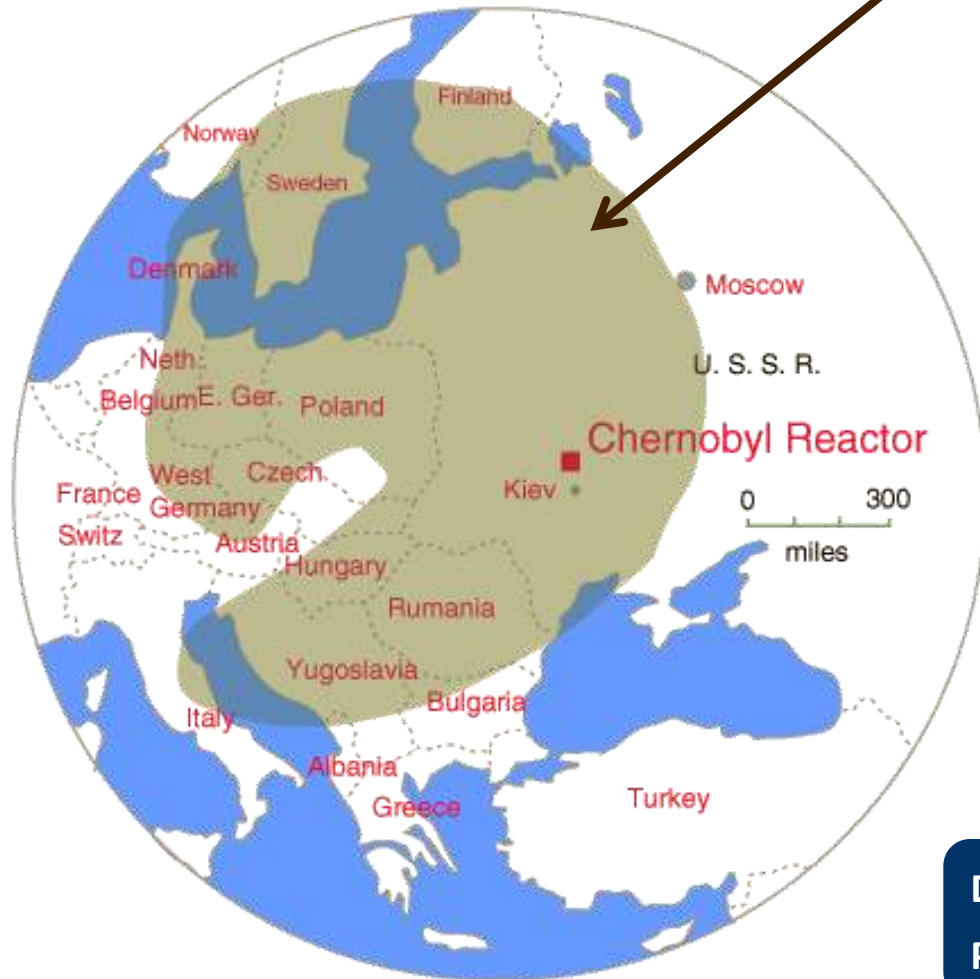
Radiation Spares Nothing

- Impacts Vegetation - Agriculture
 - Trees near Jaduguda Uranium Mines have **DEFORMED SEEDS**
 - Agricultural produce is bound to carry *unacceptable amounts of radioactive content*
- Impacts Animals
 - **Radioactive Boars** on the rise in Germany (thanks to Chernobyl)
- Impacts Human Beings



Nuclear Accidents Are Worse!

- **Chernobyl** : An area of 1,00,000 sq km is **UNINHABITABLE** for 20,000 years. **FOREVER**.



Date: 26 April 1986
Plant Capacity: 900 MW

Nuclear 'Meltdown' in the USA

- **Three Mile Island, Pennsylvania:** Happened in 1979 due to the meltdown of fuel rods
- Health effects mostly unstudied or kept clandestine



Impact of Nuclear Radiation on Humans

- Cancer in the next 2 to 60 years
- Deformed babies - FOREVER!

The pictures that follow may be disturbing

Jump to [Existing Nuclear Plants in India](#) only if you are extremely week-hearted

40 Years Old Uranium Mines

in Jaduguda, Jharkhand



Near Rawatbhata Power Plant

Near Kota, Rajasthan



After Chernobyl Nuclear Disaster

1986



After American Bombing in Iraq

Depleted Uranium (DU) Bombs made out of
The Waste from Uranium Enrichment



Semey: USSR's Nuclear Testing Site

During Cold War



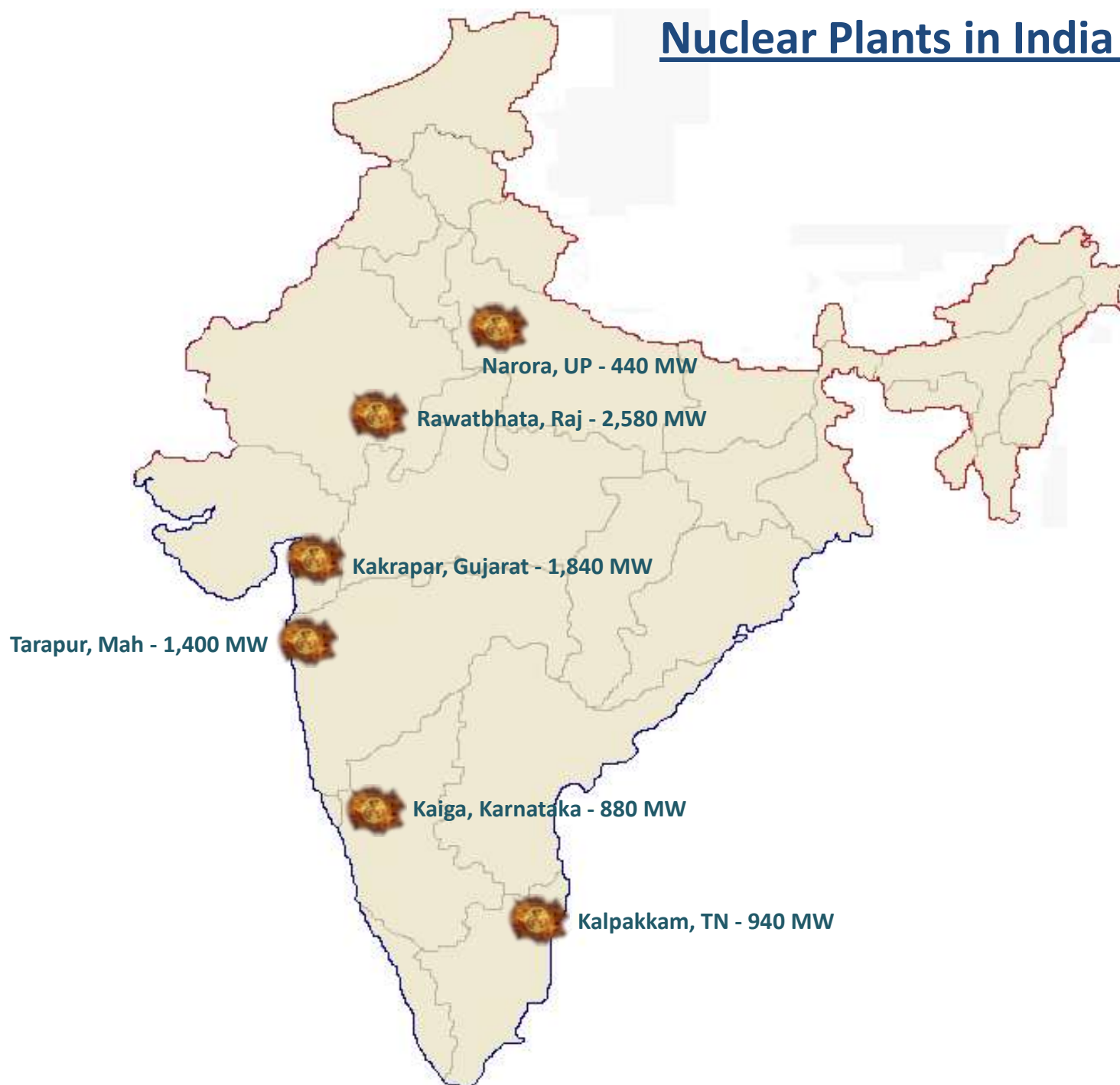


Still Nuclear Plants are being pushed in India...

Existing Nuclear Plants in India

Before the Indo-US Nuclear Deal

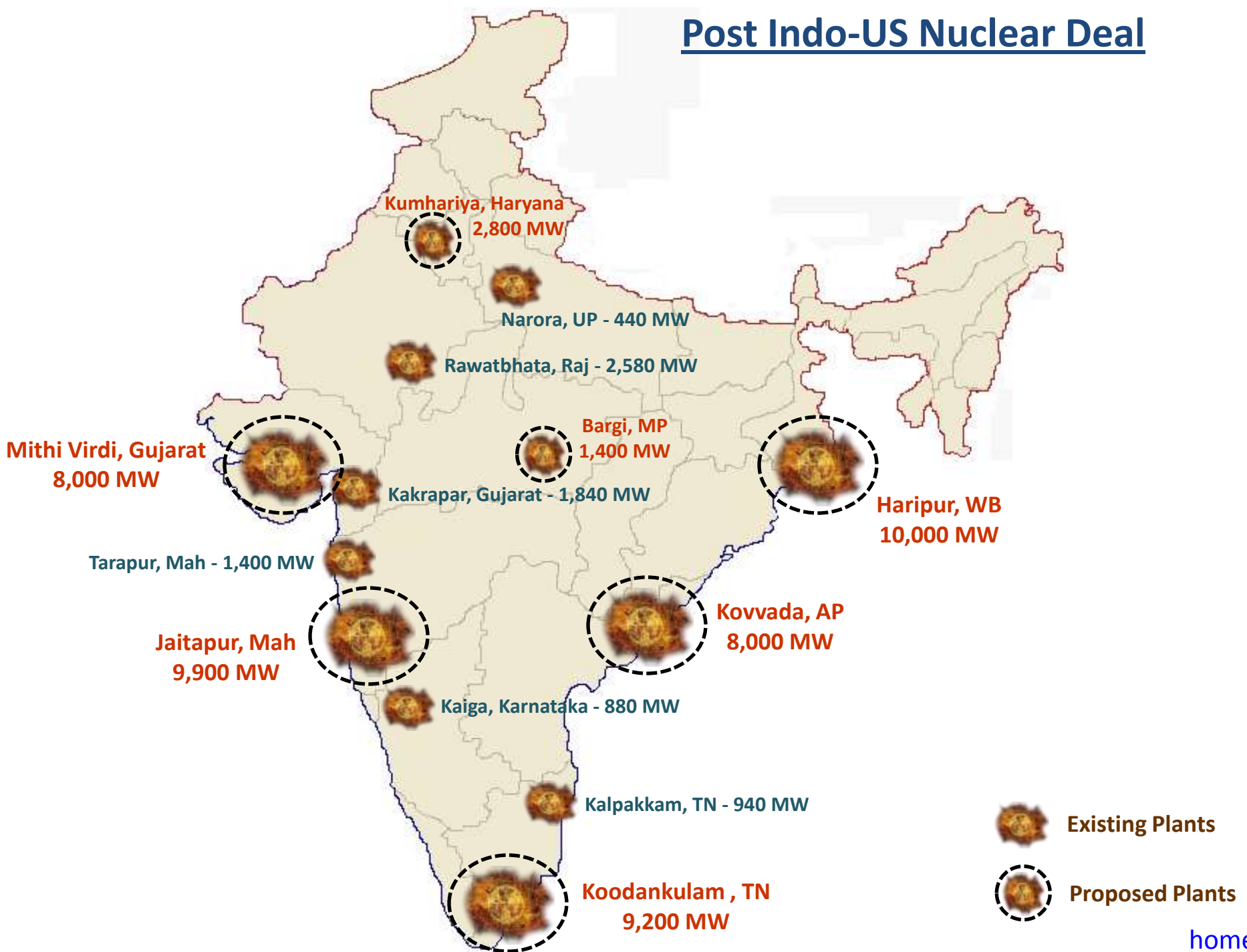
Nuclear Plants in India (2010)



Proposed Nuclear Plants in India

After the Indo-US Nuclear Deal

Post Indo-US Nuclear Deal



Approximate Impact Area of Nuclear Accidents

In India

Can you imagine the massive loss of
Human Lives, Forests, Agriculture,
Animals, Economic Activities?

For 1000's of years!

 Existing Plants

 Proposed Plants

OK, If Not Nuclear Then What?

Feeding Electricity to the *Super Power*
in making...

Improving Existing Energy Efficiency

- India can **save 30-40%** of its electricity deficit by simple **Conservation** techniques
 - **Improving** the efficiency of **existing** power plants (*we are way behind international standards at the moment*)
 - **Decentralizing** electricity generation to reduce long distance transmission losses

The cost of implementing these Efficiency Improvement Measures is MUCH LESS THAN that of setting up New Plants



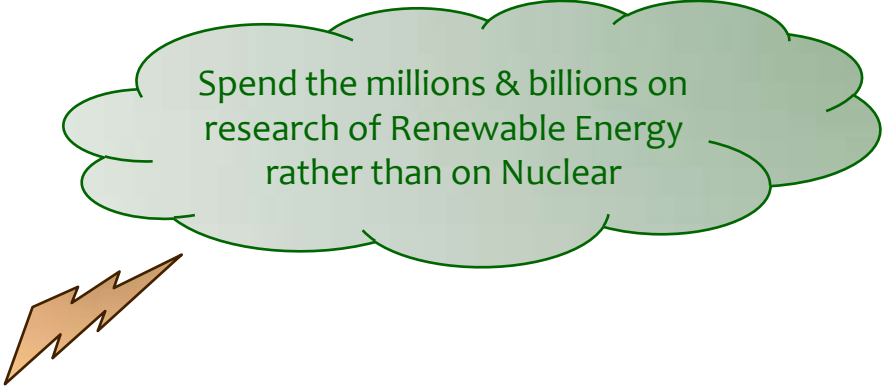
Conserving Electricity

- We can save **30% increased demand** of electricity by 2013 by using energy efficient electrical infrastructure at home
 - Fans, Incandescent Bulbs, Tube Lights
 - Refrigerators, ACs, Air Coolers
 - Electric Water Heaters
 - Computers, TVs, DVD Players, Set-Top-Boxes (active mode)



Use Renewable Sources

- They are *Cheap*
- They are *Unlimited*
- They *don't Kill*
- They are '*un-researched*'



Spend the millions & billions on research of Renewable Energy rather than on Nuclear

America is the world's largest producer of Wind Power

Solar Energy has the potential to feed Earth 1000 times

Solar Water Heaters in Bangalore save 900 MW of peak load. Already!



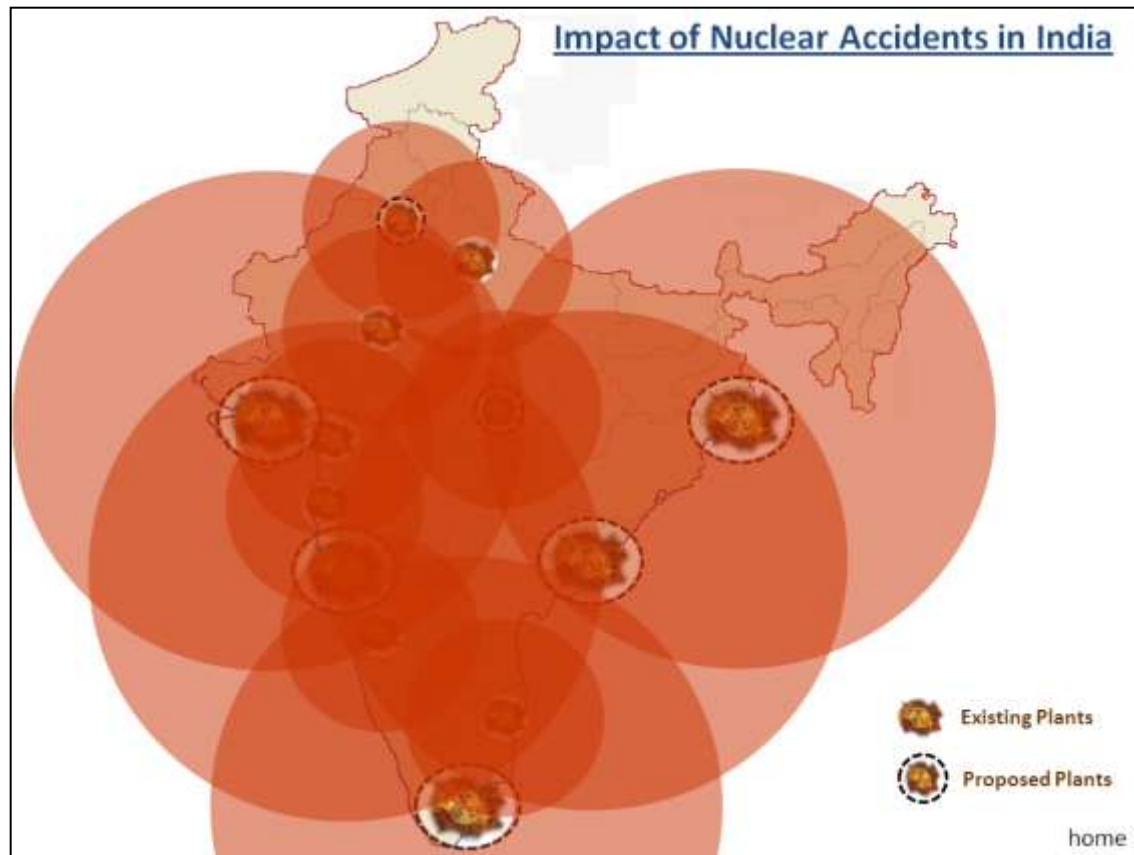
India's Electricity Scenario

Electricity Produced in 2006	1,60,000 MW
Electricity Required	8,00,000 MW (by 2032 to sustain 8% growth)

Government declares

- Projected energy by all Nuclear Plants = just 60,000 MW
 - Hardly **10%** of the electricity deficit

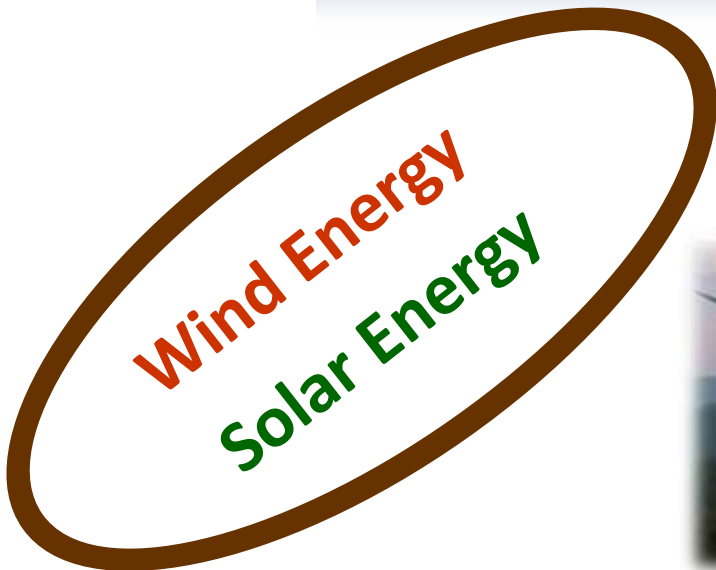
Why RISK Indian lives for just 10% of electricity?



The Potential of Renewable Sources

- Latest studies indicate that **Wind Energy** & **Solar Energy** hold the keys to sustained development!

Potential from Wind	1,00,000 MW
Potential from Sun	4,00,000 MW



The Politics of Nuclear Power in India

Ever heard of a *lucrative*
Wind or Solar Scientist post?

Why is Nuclear Power Promoted in India?

- Current energy policies are designed to **benefit foreign MNCs**

General Electric

Westinghouse

Areva

Newspapers admit that THEY ARE HERE FOR A **\$40 BN BUSINESS**



Why is Nuclear Power Promoted in India?

- **Profit** for MNCs who will provide reactor designs
- **Commission** for Indian Politicians, Intellectuals, Scientists

Investment at the
9,900 WM Jaitapur
Nuclear Plant

10,00,00,00,00,00,000

One Lakh Crores only!

All Nuclear Plants in India offer

lucrative prospects

for these *Patriots!*

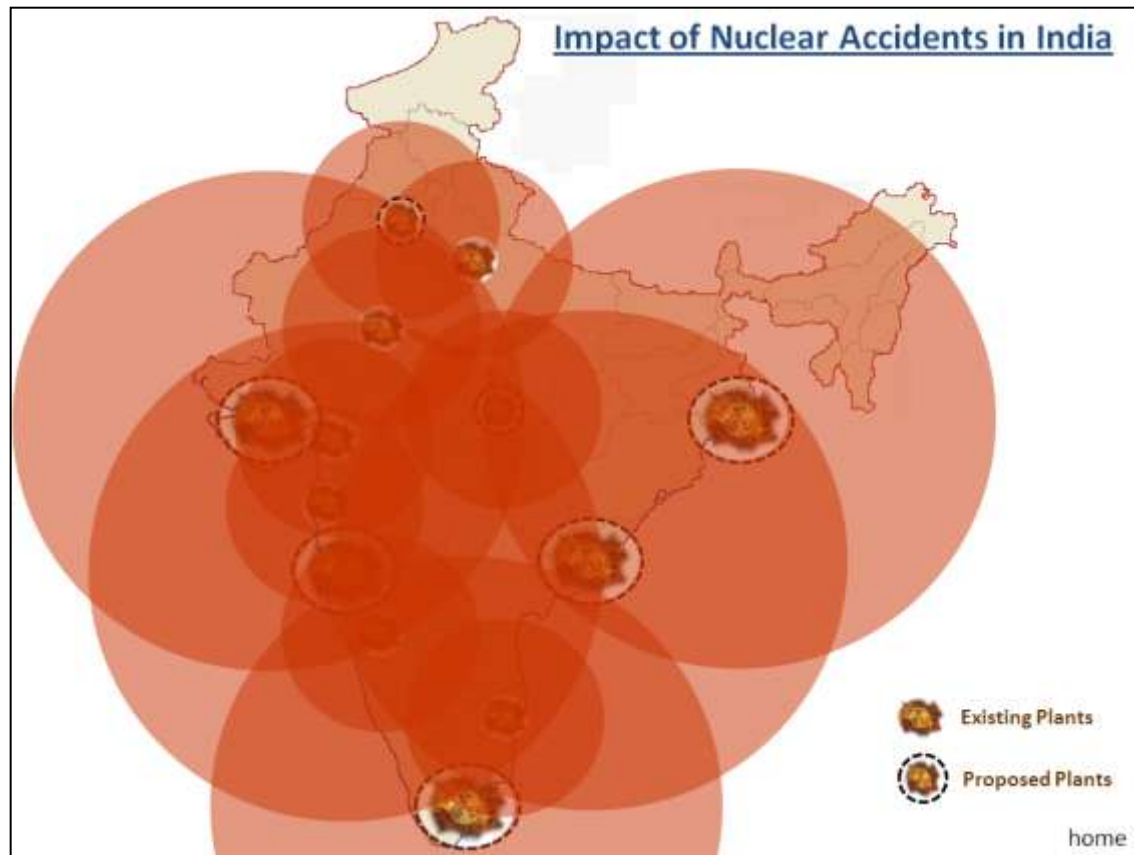
Why is Renewable Energy Unknown?

- Very less or *No Scope for Investment* (read *profit*)
- Giants MNCs in the Nuclear Power sector are **too strong** to let the Renewable Energy sector grow
 - And hence, almost *No Solar or Wind Scientists*



Nuclear Industry

Why SPOIL Indian lives for their Profit?



And *Our* Government's Gift for US

- The **Nuclear Civil Liabilities Bill** by *our* government says that:

- Any *foreign company* **WILL NOT** be held liable for any nuclear accidents on Indian soil, whatsoever
- They **WILL NOT** pay any Compensation
- We **CAN NOT** sue them in Indian or Foreign courts



The World Has Started Protesting

Nuclear Energy

The 'West' is Disowning Nuclear Power

- Most **Americans** are *against Nuclear Power*
 - Major concerns:
 - Continuous radiation emitted in normal functioning of Nuclear Plants
 - Nuclear Waste disposal
 - Threats of nuclear accidents
- Australia has *never built* a Nuclear Power Plant!



Wondering What You Can Do About This?

- Understand the *politics* of promoting Nuclear Power in India
- Spread *awareness* about this massive public betrayal



Jago Re !

