

19th Nov'22 – Electricity Generation & Transmission Committee - Minutes of Meeting

- 1) Problem – Cities are too congested and take too much power – this is because water has been controlled to divert them to increase the population, by damming rivers, creating reservoirs with stagnant water that must be chlorinated for us, making us sick. Downstream water is choked and the country and village economy is dried up.
 - a. Solution - To keep water healthy, it must be kept flowing and not stagnant in the dams that are supplying water to overpopulated cities. Hydro electric power generation/the water wheel must be allowed on all downstream rivers for their communities to thrive. Releasing water downstream also decongests people and gets people to the countryside for a better living experience.
- 2) Types already implemented solutions of electricity generation systems –
 - a) water wheel has been implemented in India since some time.
 - b) wind mills with wooden blades (being a natural material & renewable source) has been implemented in the west.
 - c) compressed bio gas has been implemented in many places, taxis use CNG.

- 3) Problem – If one is living in isolated places, how do they grow their grain or make their flour, without a motor & electricity.

Solution - For irrigation where the use of the Persian wheel and a pulley system is used to draw water from the river can be turned in troughs to channel water using this, the water can also be used to move a grinding stone to make grain into flour. In Scandinavian countries this mechanism was used to cut wood. With this similar mechanism it can be used as a generator to generate electricity and by attaching an alternator to this keeping the current stable, this can be used for a 3 phase system.

- 4) Examples of books – a) The Electricity Act, 2003 (to understand the central & state rules behind electricity generation).

b) Power Compendium (compilation of Acts, Rules, Policies, Guidelines for electric generation, transition & distribution).

- 5) Out of the many types of electricity generation pick the one most efficient & effective that best suits the geographic location. A good idea is to also get in touch with mechanical & electrical engineering colleges and take their help and assistance. Along with making a model of a working system of renewable energy, it can be commercialized & patented and can later be installed in villages.

- 6) Types of Non-renewable energy and the environmental issues that arise along side it –

a) Hydro electric – (i) Can contaminate the water if the plates of the land onto which the water is released, is acidic (ii) Soil erosion (iii) Earth gets damaged due to the land getting displaced (iv) Human, Forest, Animal, Fish gets displaced (v) Disaster prone

b) Coal – (i) Pollutes the air, water & soil (ii) Holes are created in the earth (iii) Health problems in humans (iv) Damages forest, animal and bird life

c) Diesel – (i) Pollutes the air (ii) Holes in the earth are created to get diesel (iii) Damages forest, animal and bird life

d) Nuclear fusion – (i) Pollutes water and soil with its radioactive waste material (ii) Holes are created to extract raw material (iii) Harmful to human health (iv) Harmful to marine, animal, bird and fish life (v) Disaster prone

- 7) Types of Renewable energy and the environmental issues that arise along side it –

a) Bio-gas – (i) Methane is harmful to the air

b) Water wheel – (No issues found)

c) Wind mill – (i) Creates a distortion in the air pressure which leads to a cease in insect, animal, bird and plant life around that area, pertaining to a certain diameter (ii) Holes are created to install wind mills (iii) Creates garbage of the materials used to make wind mills (iv) Displaces human life (v) Affects life on the ground around it (vi) Affects bird life and movement

d) Solar – (i) Holes are created in the earth (ii) Leads to a immense garbage issue (iii) Displaces human life

e) Tidal – (i) Holes are created in the earth (ii) Affects marine and fish life

f) Hydrogen fuel – (i) Holes are created in the earth for battery material

g) Nuclear fission – (i) (i) Pollutes water and soil with its radioactive waste material (ii) Holes are created to extract raw material (iii) Harmful to human health (iv) Harmful to marine, animal, bird and fish life (v) Disaster prone

h) Tesla energy – (Not tested to an extent to suggest issues, if any)

i) Magnetic energy - (No issues)

j) Free energy device - (No issues)

8) Problem – Lack for water due to lack of resource/drying up of lands.

Solution – Plant big trees on nazul land which no builder can later disturb, this can be done by teaming up with 2 or 3 Gram Sabhas, so that when it rains the tree roots will pull water deep into the ground and if there are sloping lands then one make storage tank like structures with steps, using tarpoline of 8 decimeter you can channel clean water for drinking or growing food. Plants like eucalyptus shouldn't be grown where there is a lack of water/drying of land as this plant absorbs a lot of water.

9) Nagnath Patil - Since 2006, there's been a big plan in the bio-fuel sector. In 2017, an individual company (related with Baba Atomic Research Center and CROW diesel (Dr. Abdul P.J. Kalam's research team – Prachi Dohle, Gold medalist in petro-chemical)) had begun setting up in India with regards to the bio-fuel sector and will bring about a self-reliance and self-sufficiency to India's fuel sector, they plan to set up a plant in every tehsil of 10 acres, all the investments and expenditures will be borne by the company, this bio-fuel will be made of plant waste material and grass, from this plant set up there will be a station which they will sell CNG from. The next plan of the company is to set up 100% organic farming throughout the country and will stop all forms of pesticides, insecticides and herbicides, so in every Gram Panchayat they have set up a demo to showcase the plan to the farmers. They also train farmers to set up their own bio-gas plant within their villages, in order to lessen the importing of it and by 2030 will be self-sufficient in bio fuel and organic farming.

Also till these bio-gas plants are set up, for the time being to replace coal, bio-coal will be introduced, by processing super napier grass through torrefaction, which will be carbon neutral.

Tiwari – Take a bit of caution while dealing with and accepting help from certain companies/organizations. Also consider that water is most important, so to take good care in acquiring of water first.

Top 10 Most Famous Magnetic Motors - <https://youtube.com/watch?v=u6ynRq27wCQ&feature=share>
Free Energy Devices : Towards Energy Sovereignty - <https://www.youtube.com/watch?v=wD8JFkpJzFE>