*Hello everyone m Saurabh Dimri currently pursuing B.tech from university of Petroleun and energy studies .*

*As we know :*

“[Our duty, as men and women, is to proceed as if limits to our ability did not exist. We are collaborators in **creation**.](http://thinkexist.com/quotation/our_duty-as_men_and_women-is_to_proceed_as_if/218587.html)”

*Well Design Thinking is a design methodology that provides a solution-based approach to solving problems. It’s extremely useful in tackling complex problems that are ill-defined or unknown, by understanding the*[*human needs*](https://www.interaction-design.org/literature/topics/human-needs)*involved, by re-framing the problem in human-centric ways, by creating many ideas in*[*brainstorming*](https://www.interaction-design.org/literature/topics/brainstorming)*sessions, and by adopting a hands-on approach in prototyping and testing. Understanding these five stages of*[*Design Thinking*](https://www.interaction-design.org/literature/topics/design-thinking)*will empower anyone to apply the Design Thinking methods in order to solve complex problems that occur around us — in our companies, our countries, and even our planet*

*During this course I learned a lot about how to find and tackle the basic problems that we are facing in our local areas in our neighbourhood or nationwide. It was quite fun and challenging to think about solution of a problem and find different and easy ways economically and availability both.*

Now moving towards how might we question I decided to work on my how might we topic itself that is biggest research area itself . well the question is

How might we control the pollution and made some use of it simultaneously?

Well for that let’s grasp some information about energy and its importance..

* The discovery of fire, the domestication of animals, the discovery of fossil fuels, the electrification of cities, the oil wars in the Middle East, and advances in nuclear physics are all pivotal points in human history. Energy is a multifaceted concept; it is central to science and education, it plays pivotal role in economic growth, and it has a dominant position in international affairs. Conventional energy sources are major sources of environmental stress at global as well as local levels. Emissions from fossil fuels drive a range of global and regional environmental changes, including global climate change, acid deposition and urban smog. Coal mining disturbs vast areas of natural habitat, hydropower development can have significant environmental and social costs, and the exploration for and extraction of oil and natural gas can have significant impacts, particularly in sensitive ecosystems..

From the time you wake up to the time you go to sleep at night, energy has affected your life. Energy is important in everyone’s life, whether you notice it or not. Without it people would have a harder time waking up and an even harder time getting anywhere. Energy is important whether it’s solar energy, mechanical energy, nuclear power, or the energy your body makes that allows you to talk, move, and walk.

The topic of the importance of energy sources is a conversation that will continue over the next few decades as more people begin to realize the value of utilizing renewable energy as opposed to getting energy from sources that don't naturally regenerate. Nonrenewable energy sources include fossil fuels that come from beneath the ground and take thousands of years to form. Renewable energy sources regenerate quickly and can supply a region with its long-term energy needs far into the future.

Given the increasing demands for energy in our global society and the need to provide clean energy for future growth.

**To tackle this scenario and to make our air more cleaner and pollution free to breathe I made an instrument i.e an Electricity Generator that basically converts the pollution coming out of chimneys of houses and factory into electrical energy and cleaning the air as well. As know that smoke consists of very small**

**carbon &amp; lead particles. All these particles are ionized as electrons in upper cells at high**

**temperature. Thus the theory on which my model is based is that “at high voltage ions**

**precipitate on electrodes”. Thus, electrons do not mix up with air which in turn controls**

**smoke pollution. In this model, we will use an induction coil to apply high voltage (by DC source). After**

**purification of smoke when gases come out from chimney they contain a high internal**

**energy.**

 A liquid is inserted in the pipe which is a closed chambered system. The liquid is n-heptadecane, i.e. normal

heptadecane having low latent heat of vaporization and moderate boiling point. After insertion it consumes heat energy from the chimney and then evaporates, expands and exerts pressure on the turbine system ‘A’. After exerting pressure on the turbine system it produces electricity and then again go back to the spiral pipe system and gets condensed here. This process repeats again and again and thus electricity is produced.