

“NON-CONVENTONAL ENERGY POWERED ICE MAKER”

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A project report

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Abstract:

Humans can be curious creatures. They can be amazingly ingenious and creative, capable of putting a man on the moon or building huge and magnificent temples. And yet, when it comes time for their own survival, they can be slow to act and display, at times, a complete head-in-the-sand posture.

Burning fossil fuels creates another grave problem: global warming.

Is it really happening? Some argue that it is not but that is the head-in-the-sand attitude. Fact is, the Earth is already showing many signs of worldwide climate change. For example: Average temperatures have climbed 1.4 degrees Fahrenheit (0.8 degree Celsius) around the world since 1880, much of this in recent decades, according to NASA's Goddard Institute for Space Studies.

The refrigerators that were developed during 1930s to 1929 used the toxic gases, like methyl chloride (CH_3Cl), and sulfur dioxide (SO_2) as refrigerants. Several fatal accidents occurred when methyl chloride leaked out of refrigerators.

A research was launched to develop a less dangerous method of refrigeration, which led to the discovery of "FREON". Within a span of few years Freon was used in all the compressor refrigerators. The use of refrigerator increased in the storage and preservation of food, freezing and others which prevented spoiling for many days. After few decades later Scientists realized that the chlorofluorocarbons present in Freon endangered the ozone layer of the entire planet. Hence there was a ban on usage of Freon world wide.

Today the availability of resources for the generation of electricity has been depleting. We know that every where in our world Refrigeration is a major energy user. In poor areas, "off grid refrigeration is critically important need. Both of these considerations point the way towards refrigeration using renewable energy as a sustainable way of life.