

A Study on Artificial Moon

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Abstract– The aim of this research is to contribute knowledge to the people about the functioning of the artificial moon, because in the present scenario we know that how the electricity consumption is increasing day by day. In order to bring the awareness among the people to reduce the usage of electricity in urban areas, the implementation of artificial moon will be the best source and as it is very useful in rural areas and also helps the people during the natural disaster time. The main focus of this research is to save the power for future generation and protecting the environment.

Key words - Artificial moon, Electricity consumption, Power saving

INTRODUCTION

In an effort to illuminate the streets after dark, the Chinese scientists are planning to place an artificial moon in orbit by 2020. According to a report in China Daily, the moon will be launched from the Xichang Satellite Launch Center in Sichuan and will be placed above Chengdu, the capital of Sichuan province.

Tian Fu New Area Science Society head Wu Chunfeng in an interview to the daily said that the man-made moon will have “a reflective coating that can reflect sunlight back to Earth, similar to how the moon shines”. He further said that the artificial moon is an illumination satellite designed to complement the moon at night. It is predicted to be eight times brighter, the report said.

“But this is not enough to light up the entire night sky. Its expected brightness, in the eyes of humans, is around one-fifth of normal streetlights,” Wu Chunfeng told the daily he, however, said that the location and brightness of the light beam can be changed. The scientist further said that the moon might replace some streetlights in the urban area.

The scientists are planning to launch four such moons. Wu Chunfeng said that the first moon would be experimental, but the three moons in 2022 would be the real deal with great civic and commercial potential.

According to Chunfeng, the three new man-made moons can together illuminate an area of around 3,600 to 6,400 sq. km. on Earth for 24 hours. He also informed that several top universities and institutes including China, Aerospace Science and Industry Corporation have evaluated the project and given it their approval for the experiment.

Explaining the process of launch, Wu Chunfeng said that scientists would conduct the tests in an uninhabited desert. After the satellite is placed in the Orbit, people will see only a bright star above, and not a giant moon as imagined, he said.

Wu Chunfeng said that not only China but other countries such as Russia, US and Japan are looking to gain from space energy and reflecting mirrors have been in the discussion for some time.



Figure 1: Moon Light Model (Source: Chinanews.com)

DISCUSSION

Chengdu, the capital of the Sichuan province, has proposed a plan to launch an artificial moon, or illumination satellite, into space, *Asia Times* is reporting. The moon would be eight times brighter than the Earth's actual moon, creating an opportunity for the streets of Chengdu to be illuminated by the satellite instead of street lights.

According to local reports picked up by the *Asia Times*, the city has been evaluating the technology behind an artificial moon for years and has tested it enough to feel it's ready for launch. The artificial moon is made from a reflective coating that can aim the sun's light back to Earth and cover a span of 6 miles to 50 miles. Officials on the ground can control the diameter of the light to ensure it focuses precisely on the city and nowhere else, according to the report. If Chengdu can get approval for the artificial moon and actually launch it in space in the next couple of years, the city is hopeful it'll help it save money on illuminating its streets. The city also believes that tourists would be more likely to visit and see how the moon works during the night, according to the report.



Figure 2: Model of Artificial Moon (Source: Chinanews.com)

ADVANTAGES

- Reduction of street light power bill.
- Eight times brighter than normal moon.
- In case of natural disasters this moon will be very much useful.
- Reduces consumption of fuels.
- Security to urban and rural areas
- Helps for the people living in the slums.

CONCLUSIONS

So, finally we want to suggest the government and the scientists to develop this type of technology in our country which helps to save the power consumption in India and also helps the poor people in our country who don't have facility to consume power.

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