

New moon: China to launch lunar lighting in outer space

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That's no moon... China is planning to replace streetlamps with light from an 'artificial' moon

China is planning to launch its own 'artificial moon' by 2020 to replace streetlamps and lower electricity costs in urban areas, state media reported Friday.

Chengdu, a city in southwestern Sichuan province, is developing "illumination satellites" which will shine in tandem with the real [moon](#), but are eight times brighter, according to China Daily.

The first man-made moon will launch from Xichang Satellite Launch Center in Sichuan, with three more to follow in 2022 if the first test goes well, said Wu Chunfeng, head of Tian Fu New Area Science Society, the organization responsible for the project.

Though the first launch will be experimental, the 2022 satellites "will be the real deal with great civic and commercial potential," he said in an interview with China Daily.

By reflecting light from the sun, the satellites could replace streetlamps in [urban areas](#), saving an

estimated 1.2 billion yuan (\$170 million) a year in [electricity costs](#) for Chengdu, if the man-made moons illuminate an area of 50 square kilometers.

The extraterrestrial source of light could also help rescue efforts in disaster zones during blackouts, he added.

AFP was not able to contact Wu nor the Tian Fu New Area Science Society to confirm the reports.

As China's space programme races to catch up with that of the United States and Russia, a number of ambitious projects are in the pipeline, including the Chang'e-4 lunar probe—named after the moon goddess in Chinese mythology—which aims to launch later this year. If it succeeds, it will be the first rover to explore the "dark side" of the moon.

China is not the first country to try beaming sunlight back to Earth. In the 1990s, Russian scientists reportedly used giant mirrors to reflect light from space in an experimental project called Znamya or Banner.

Chengdu's artificial moon project was announced by Wu at an innovation and entrepreneurship conference in Chengdu on October 10.

In addition to Tian Fu New Area Science Society, other universities and institutes, including the Harbin Institute of Technology and China Aerospace Science and Industry Corp, are involved in developing Chengdu's illumination satellites.

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