Telescope plus solar power generation

Overview

A large portion of astronomy's carbon footprint stems from fossil fuels supplying the power demand of astronomical observatories. Here, we explore various isolated low-carbon power system setups for the .

Telescope plus solar power generation

[NASA's Webb "Powerhouse" Solar Array Reconnects to the Telescope]

Webb's 20-foot (6-meter) solar array was recently attached to the main observatory for one of the final times before launch. The "powerhouse" of the telescope, the array will supply energy

[A renewable power system for an off-grid sustainable telescope]

Here, we explore various isolated low-carbon power system setups for the newly planned Atacama Large Aperture Submillimeter Telescope, and compare them to a business-as-usual diesel power

How to power an off-grid telescope?

1st telescope to include sustainable power generation in design phase funded under EU's Horizon

Renewable energy for telescopes and local communities

It turns out, that many of them are powered by generators that run on fossil fuels, diesel and natural gas. But the location of many telescopes makes them prime candidates for solar power.

[A renewable and socially accepted energy system for astronomical]

Here we propose a socially accepted renewable energy system for a future telescope in the Atacama Desert, combining an energy system model with a participatory multi-criteria analysis.

[A renewable power system for an off-grid sustainable telescope fueled]

The Chilean summer months January to March have enough solar generation and storage capacity to meet the seasonally lower telescope demand, while the autumn and winter months use

[A renewable power system for an off-grid sustainable telescope fueled]

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[(PDF) A renewable power system for an off-grid sustainable telescope]

Technologies included in the designed systems are photovoltaics, concentrated solar power, diesel generators, batteries, and hydrogen storage.

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