

# **What is the solar cycle system**





## Overview

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What is a solar cycle?

solar cycle, period of about 11 years in which fluctuations in the number and size of sunspots and solar prominences are repeated. Sunspot groups have a magnetic field with a north and a south pole, and, in each 11-year rise and fall, the same polarity leads in a given hemisphere while the opposite polarity leads in the other.

How does the solar cycle work?

The solar cycle is driven by the sun's magnetic field, according to NASA Space Place. Every 11 years or so, the sun's magnetic field flips so north becomes south and south becomes north. Changes in the sun's magnetic field affect the amount of activity on the solar surface.

What is the connection between solar cycles?

Examining the connection between solar Solar Cycles are the periodic changes in solar activity that occur roughly every 11 years. This activity is often measured by the number of Sunspots on the Sun's surface. These sunspots appear darker because they are cooler areas caused by the Sun's magnetic field.

How does the solar cycle affect Earth?

The Sun follows a roughly 11-year rhythm of waking up and becoming very active before calming down again, a stellar beat known as the solar cycle. This affects Earth because it shapes space weather, determining how much radiation, magnetic field and particles the Sun flings out into space and towards our planet. What is the solar cycle?



## What is the solar cycle system

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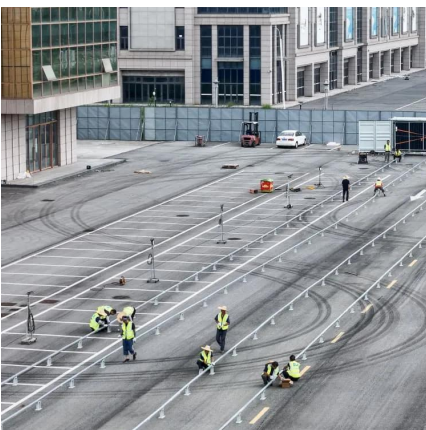
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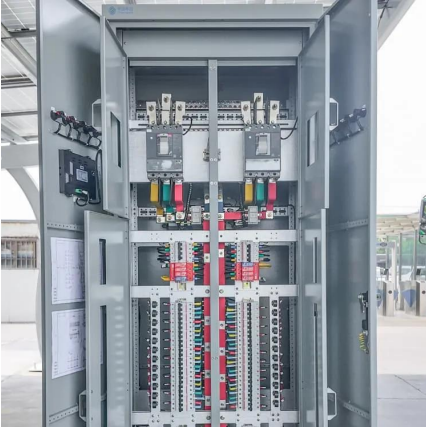
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