

# Where are we in the solar system





## Overview

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NASA's Solar System Interactive (also known as the Orrery) is a live look at the solar system, its planets, moons, comets, and asteroids, as well as the real-time locations of dozens of NASA missions.

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Both apps show a solar system map - a "plan view" of the planets laid out in the plane of the ecliptic (the flat plane in which all the main planets move about the Sun). Dwarf planet positions are also shown - but it should be realised that these objects often rise far above and below the plane of.

There are eight planets in the solar system. The four inner terrestrial planets are Mercury, Venus, Earth, and Mars, all of which consist mainly of rock. The four outer planets are Jupiter, Saturn, Neptune, and Uranus, giant planets that consist mainly of either gases or ice. Pluto was considered.

Position of each of the planets of the solar system in their orbits with respect to the Sun for any date and time. Position of the planets in real time and accelerated animation of the planetary orbits. If you want to share a link to the view and time that is showing in the viewer now, you can copy.

Our immediate cosmic neighborhood begins with Earth, a planet orbiting the Sun within the Solar System. This system formed approximately 4.6 billion years ago from a rotating cloud of gas and dust, with the Sun at its center, accounting for over 99% of the system's total mass. Eight major planets.

The solar system is located in the Milky Way galaxy. More specifically, it's situated in one of the galaxy's spiral arms, known as the Orion Arm or Orion Spur. It's approximately 26,000 light years away from the center of the Milky Way. The solar system is located in the Milky Way galaxy. More.

Our solar system contains our star (the Sun), eight planets, dwarf planets, moons, and a variety of other objects. Distances in space are so vast that

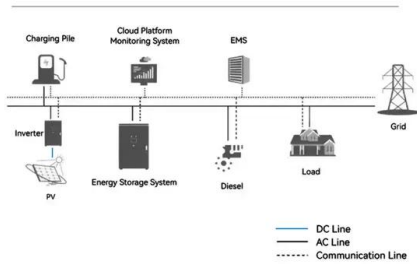


scientists use astronomical units (AU) for measurement. An AU is the distance from Earth to the Sun — 150 million kilometers or 93 million miles.



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### System Topology



### Jewel of the Solar System: Part 2 - Where Are We in the Solar System

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### Solar system , Definition, Planets, Diagram, Videos, & Facts

Position of each of the planets of the solar system (Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune) in their orbits with respect to the Sun for any date and time. Position of the planets in real time and accelerated ...



### This is the most detailed map yet of our place in the ...

We know that the Earth and the solar system are located in the Milky Way galaxy. But how, exactly, does the Milky Way fit in among the billions of other galaxies in the known universe? This



### Explore where the search for life is unfolding across the solar system

Mars and ice-covered ocean moons orbiting Jupiter and Saturn are intriguing destinations in the search for life outside of Earth. Multiple



robotic missions, both current and planned, will explore



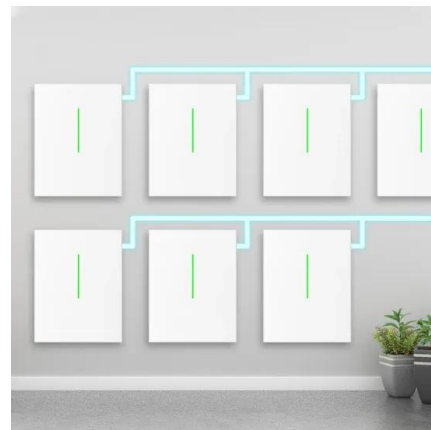
### Solar System

The Solar System remains in a relatively stable, slowly evolving state by following isolated, gravitationally bound orbits around the Sun. [32] Although the Solar System has been fairly stable for billions of years, it is technically chaotic, and ...



### The Planets Today : A live, central earth (geocentric) view of the

A Geocentric View of the solar system This page provides a different way of looking at the solar system. It is geocentric and shows where the Sun and all the planets (and the moon) are in the ...



### [Jewel of the Solar System: Part 2 - Where Are We in...](#)

Our solar system contains our star (the Sun), eight planets, dwarf planets, moons, and a variety of other objects. Distances in space are so vast that scientists use astronomical units (AU) for measurement.





Where is Earth in the Milky Way Galaxy?

The Solar System. Our Immediate Neighborhood  
The solar system is a gravitationally bound system consisting of the Sun, eight planets, numerous moons, asteroids, comets, and other celestial bodies. Our solar system also ...



**Solar system , Definition, Planets, Diagram, Videos, & Facts**

2 ???· Solar system, assemblage consisting of the Sun and those bodies orbiting it: 8 planets with more than 400 known planetary satellites; many asteroids, some with their own satellites; ...



**Where Are We in the Milky Way?  
Understanding the Solar System...**

The Solar System, home to Earth and countless other fascinating planets and moons, exists within the Milky Way galaxy. But exactly where are we in this vast galaxy? The Milky Way is a massive



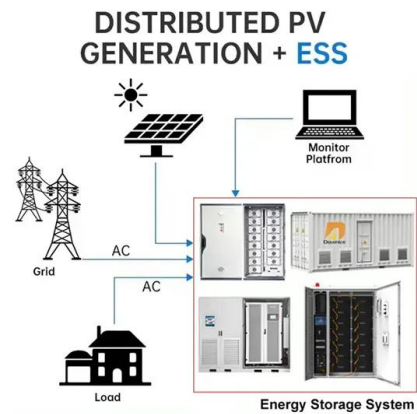
Where In Our Solar System Are We Most Likely To ...

Of all the worlds ever discovered in space, Earth -- for now -- remains unique as the only planet to have the biological processes associated with life on its surface. Yet the ingredients for life



### [Our Solar System: A Tour of All the Planets](#)

The solar system is our cosmic neighborhood, a sprawling and dynamic family of celestial bodies orbiting a single, blazing star: the Sun. It's a place of fire and ice, storms and stillness, desolation and beauty. The planets, ...



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