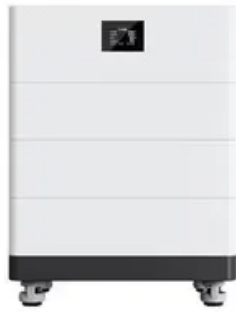


# Is the solar system nitrogen



## Overview

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Within our own solar system, nitrogen is a significant component of many planetary atmospheres. Earth's atmosphere is composed of approximately 78% nitrogen gas (N<sub>2</sub>), making it the most abundant gas on our planet. 7%. Nitrogen is a nonmetal and the lightest member of group 15 of the periodic table, often called the pnictogens. It exists as gas and dust clouds within the interstellar medium (ISM), the material between star systems, contributing to both diffuse. Since we are talking about harvesting nitrogen from other planets and moons, Earth is likely to be the major source of orbital nitrogen for a long, long time. Surrounding the Sun are the terrestrial planets—Mercury, Venus, Earth, and Mars—made mainly of rock and metal, while the outer planets, known as gas giants, include.

## Is the solar system nitrogen



### Nitrogen in the Solar System , Request PDF

Nitrogen within the solar system is not isotopically uniform: 15N/14N ratios in planetary objects such as Earth, Mars, and Jupiter range from 1.9 to  $5.9 \times 10^{-3}$  (1), some meteoritic materials

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### Is There Nitrogen in Space? Where It's Found & Why It Matters

Within our own solar system, nitrogen is a significant component of many planetary atmospheres. Earth's atmosphere is composed of approximately 78% nitrogen gas (N<sub>2</sub>), making it ...



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### Nitrogen isotope variations in the Solar System

The relative proportion of the two isotopes of nitrogen, 14 N and 15 N, varies dramatically across the Solar System, despite little variation on Earth.

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## New Insights Into How Earth Got Its

## Nitrogen , News , Astrobiology

New research by Rice University shows that Earth's nitrogen came from both inner and outer regions of the disk that formed our solar system, contrary to earlier theory.

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## Molecules in the solar system

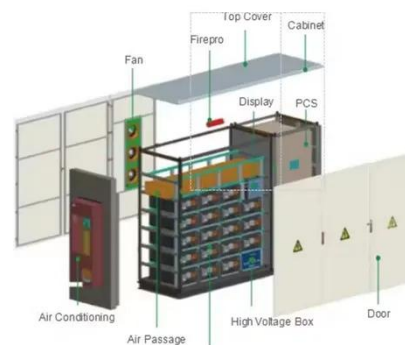
The sun, the planets, and everything else in the solar system is made of atoms (or, sometimes, ions, which are atoms that have more or fewer electrons than usual).

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## solar system

In the interest of some degree of practicality, it seems to make sense to constrain the discussion to nitrogen that might be found within our solar system maybe even especially close to ...

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## Nitrogen in the Solar System , Science

High-resolution molecular-spectroscopic observations and theoretical modeling will shed light on the existence of, and possible isotopic fractionation



mechanisms within, potential reservoirs  
...

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## Element Distribution in the Solar System

In the inner solar system, where the temperature of the solar nebula would have been above the freezing point of water, most hydrogen, nitrogen, and carbon would have remained gases.

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## The Anomaly of Nitrogen Atmospheres: Why Do They Exist Only on

Nitrogen-dominated atmospheres are rare in the Solar System, appearing only on Earth and Titan, while other planets and moons are primarily composed of hydrogen, helium, carbon ...

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