

# Green Hydrogen summit

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## In news

Recently, NTPC anchored a two days BRICS Green Hydrogen Summit.

## Key highlights of the Green Hydrogen Summit

- NTPC Ltd, India's largest energy integrated company under the Ministry of Power, anchored a two day workshop on Green Hydrogen.
- Green Hydrogen is one of the most popular and demanding fields in the current times and considered to be the next carrier of energy.
- The online event saw leading experts from the Brazil, Russia, India, China, South Africa (BRICS) countries.

## What is Green Hydrogen?

**Hydrogen when produced by electrolysis using renewable energy is known as Green Hydrogen which has no carbon footprint.**

This gives Hydrogen the edge over other fuels to unlock various avenues of green usage

## More about Green Hydrogen

- It is hydrogen fuel that is created using renewable energy instead of fossil fuels.
- It has the potential to provide clean power for manufacturing, transportation, and more and its only byproduct is water.
- As the world rapidly moves to decarbonise the entire energy system, hydrogen is poised to play a vital role and build on the rapid scale-up of renewable resources across the world..
- Green hydrogen is of great topical interest to all the countries including BRICS as it has a great amount of

potential to ensure sustainable energy supply, increase the level of energy availability and minimize the negative impact on the environment.

## **Applications of Green Hydrogen**

- **Green Chemicals like ammonia and methanol** can directly be utilized in existing **applications like fertilizers, mobility, power, chemicals, shipping etc.**
- Green Hydrogen blending up to 10% may be adopted in CGD(city gas distribution) networks to gain widespread acceptance.
- Further scaling up with greening of hard to abate sectors (like steel and cement) through hydrogen is to be explored

## **Role of NTPC**

NTPC is pioneering Green Hydrogen Initiatives in India. NTPC which is undertaking extensive study, experimentations in the areas of Carbon Capture & Hydrogen has also announced a few pilot projects on Green Hydrogen to this.

## **National Hydrogen Mission**

India has launched an ambitious National Hydrogen Mission to introduce hydrogen purchase obligations for fertilizers, refineries involving the private sector in a transparent and competitive manner to produce green hydrogen.

**Extra**

**reading:**

**<https://journalsofindia.com/national-hydrogen-energy-mission/>**