

1. Green Steel

Why in News?

- Recently, Ministry of Steel seeks to reduce carbon emissions in steel industry through promotion of Green Steel.

Highlights

- Green Steel is the manufacturing of steel without the use of fossil fuels.
- This can be done by using low-carbon energy sources such as hydrogen, coal gasification, or electricity instead of the traditional carbon-intensive manufacturing route of coal-fired plants.
- It eventually lowers greenhouse gas emissions, cuts cost and improves the quality of steel.
- Low-carbon hydrogen (blue hydrogen and green hydrogen) can help reduce the steel industry's carbon footprint
- The steel Industry is the largest industrial sector in terms of intensive energy and resource use. It is one of the biggest emitters of carbon dioxide (CO₂).
- In view of commitments made at the Conference of the Parties (COP26) climate change conference, the Indian steel industry needs to reduce its emissions substantially by 2030 and hit net-zero carbon emissions by 2070