

### India's First SSLNG Plant in Madhya Pradesh

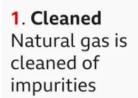
#### Why in News?

Recently, the Union Ministry of Petroleum and Natural Gas dedicated to the nation India's first smallscale liquefied natural gas (SSLNG) unit at GAIL (India) Ltd's in Vijaipur, Madhya Pradesh.

#### **Key Points**

- The government aims to increase the share of <u>natural gas</u> in its primary energy mix to 15% by 2030 from a little more than 6% at present.
  - This is because natural gas is far less polluting than conventional hydrocarbons like coal and oil; it is also cheaper than oil, more than 85% of India's requirement for which is met through costly imports.
  - Natural gas is seen as a key transition fuel in India's journey towards green energy and future fuels.
- However, a major challenge in scaling up gas consumption lies in the transportation of gas to places that are not connected by the country's natural gas pipeline grid.
- Small-Scale Liquefied Natural Gas (SSLNG):
  - It refers to the liquefaction of natural gas and its transportation using unconventional means in a significantly smaller-scale operation than the usual large-scale
  - liquefaction, regasification, and transportation infrastructure and processes.
    The SSLNG chain can start from a large-scale LNG import terminal from where the LNG, instead of being regasified and supplied through pipelines, can be transported to consumers by cryogenic road tankers or small vessels.
  - The chain can also start at locations with ample natural gas supply or production, where small liquefaction plants can be set up.
    - The SSLNG unit at Vijaipur, which is GAIL's largest gas processing facility, is an example of the latter kind of location.

## <sup>*L*</sup> How Liquefied Natural Gas (LNG) is made



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2. Liquefied Becomes liquid after being cooled to approx -160C



**3**. **Transported** Easier and safer to move (takes up 600 times less space)

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