

Brazil's success in biofuels can be replicated in India to combat air pollution and reduce dependence on imported oil. Explain.

→ India imports near 85% of crude oil and 50% of its natural gas to meet its energy requirement.

→ Biofuel can be a good alternative fuel in this regard and India must learn from Brazil's model of biofuel usage.

Brazil's biofuel model

→ São Paulo, one of Brazil's populous cities has shown reduced levels of air pollution. This is due to the use of biofuels like ethanol in the place of conventional fuels.

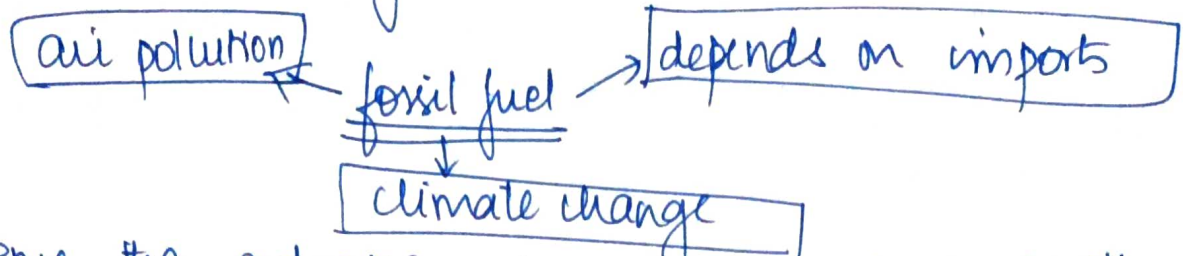
→ Benefits reaped by Brazil through use of biofuel →

- ① reduced air pollution level below that recommended by WHO
- ② substitutes with 50% of petrol
- ③ reduced dependence of oil imports.

India's stand

→ Indian society is agrarian in nature. Hence the key component for producing biofuel is agrowaste like sugarcane waste are readily available.

- India has launched the Ethanol Blending programme since 2003 and the production has reached upto 3 billion litres ethanol supply for the year 2020-21.
- India has three major problems with regards to fossil fuel and its usage



- Hence the adoption of ethanol as biofuel will address these issues faced by India.

Way forward

- Brazil, India and other nation of BRICS can collaborate in promoting cleaner and sustainable energy transition
- India has the E20 goal to achieve by 2025 that could save upto \$4 billion per annum for India.
- moreover adapting clean energy ideas from Brazil could help India in attaining its sustainable development goals to promote use of greener fuel.