Pyroprocessing

Prelims: *Current events of national and international importance | Science and Technology*

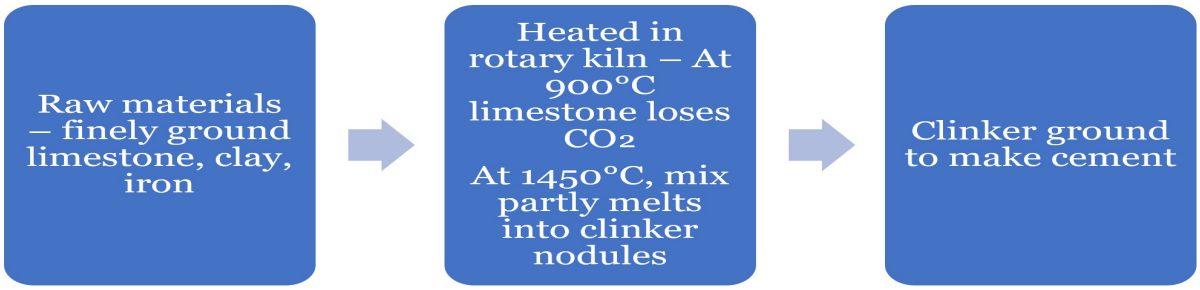
Why in News?

Recently, pyroprocessing has been highlighted in discussions on energy-intensive industrial technologies.

- **Pyroprocessing –** It is a way to change a solid material physically or chemically using high temperature.
- It is a dry process and very energy-intensive.

Industrial usage –

- **Cement Industry –** In cement, it makes clinker for cement.

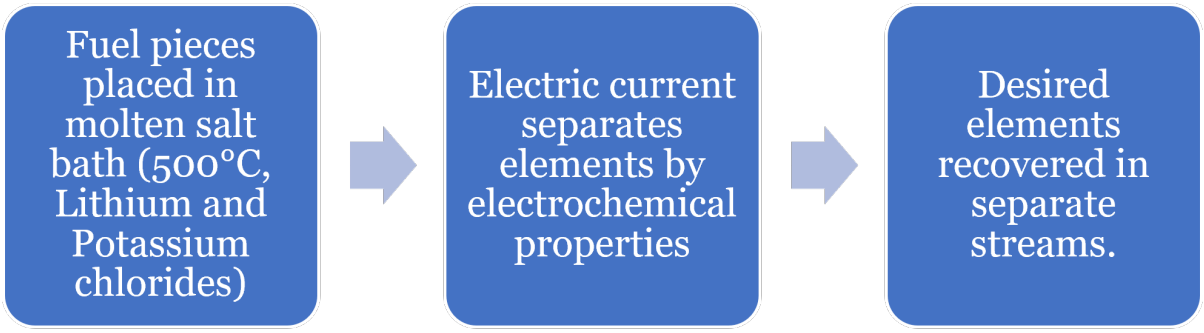


- **Metallurgy –** In metallurgy, it extracts metals from ore.



- **Nuclear Industry –** It helps recycle used fuel by separating elements in molten salt.
- Applied to reprocess spent nuclear fuel.

- Developed in 1980s–1990s for advanced reactors.



Reference

The Hindu | Pyroprocessing

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