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- Transmission Optimization
- Demand Side Management
- Distribution Optimization
- Asset Optimization

### Overview of Smart Grid

### HVDC Transmission

A small, lightweight DC system of power transmission suitable for long distance transmission of electric power in overhead and cable systems.

HVDC offers several transmission benefits compared to AC transmission systems.

An HVDC link can be considered complementary to the power grid because it can be used in areas with high capacity utilization and in areas with high power demand.

### Advantages of HVDC

- Physical separation of transmission lines
- Transmission of AC over long distances
- Low losses in long distance power transmission
- High efficiency and low losses
- High capacity utilization and low losses

Asif is presenting



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Branch - EEE  
Semester - 5th

**CONSERVATION**

**NATIONAL ENERGY CONSERVATION DAY**  
Save Energy. Save The Planet.

Energy conservation is the foundation of energy independence.

Prepared by Tarun Kumar Giri

**Types of Energy**

- Energy can be broadly divided into two categories-
- Renewable Energy
- Non Renewable Energy

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