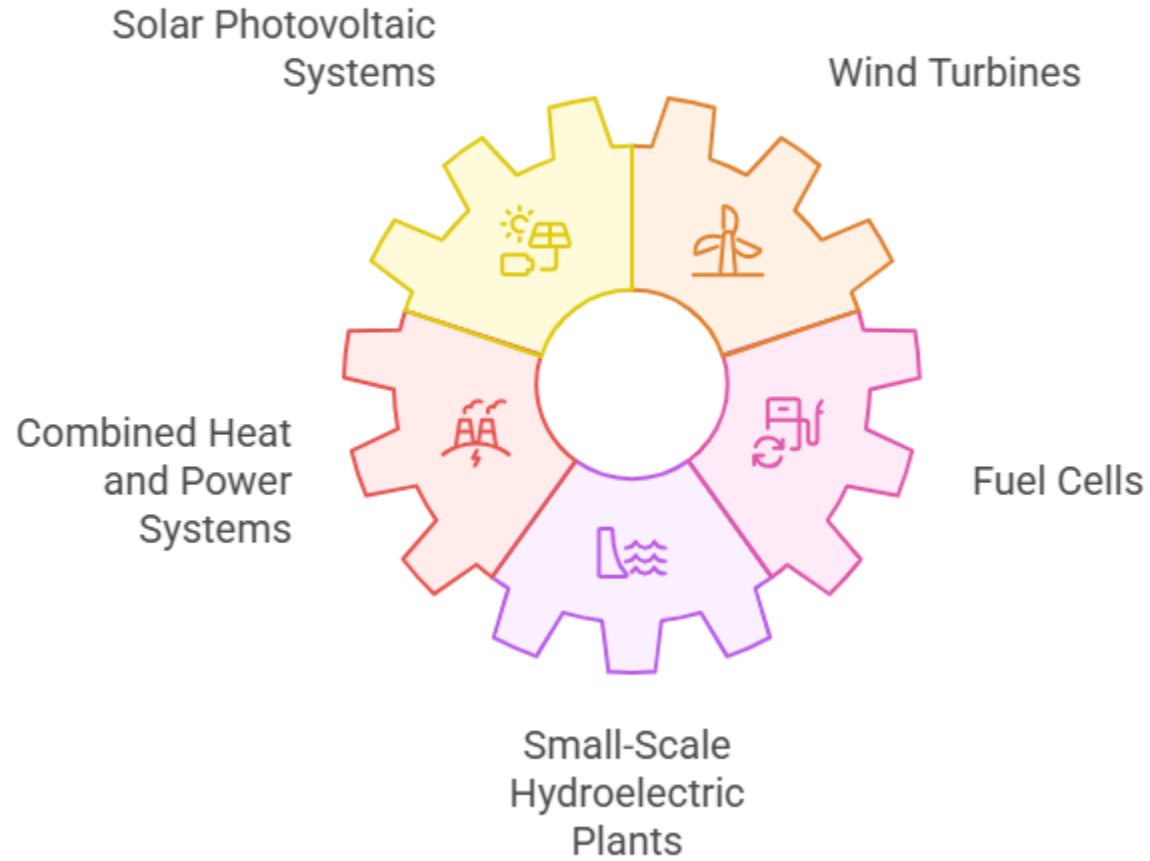


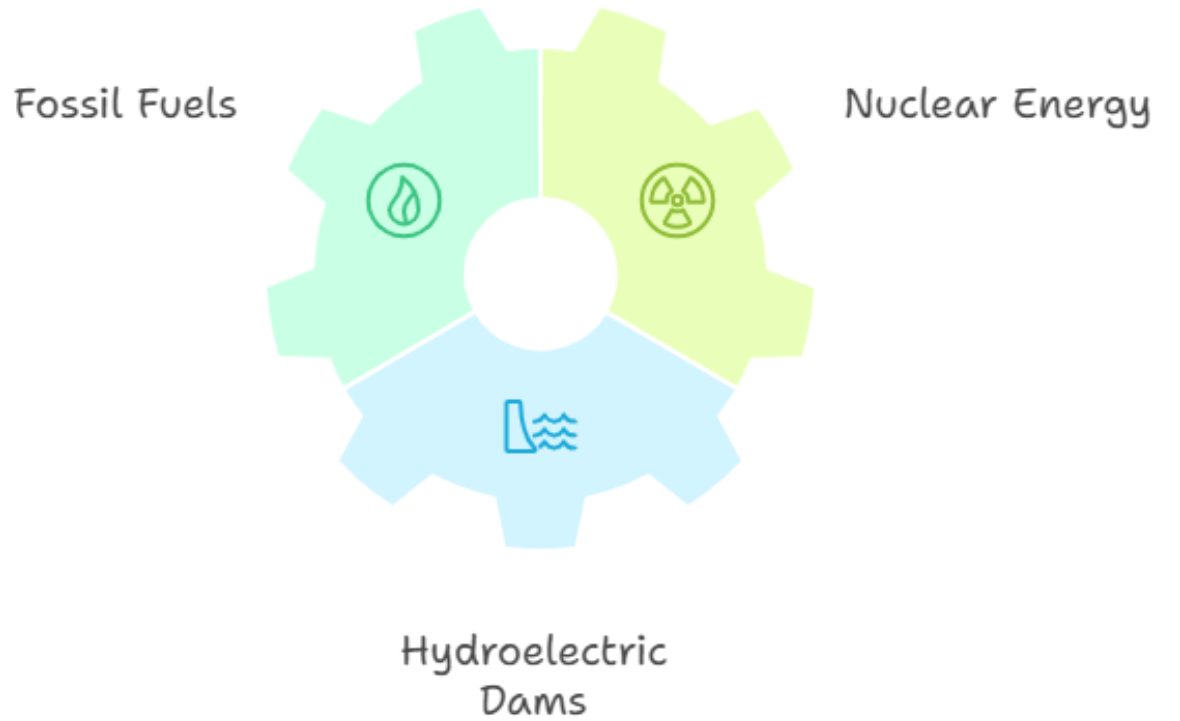
Distributed Generation Vs Centralized Generation

Components of Distributed Generation



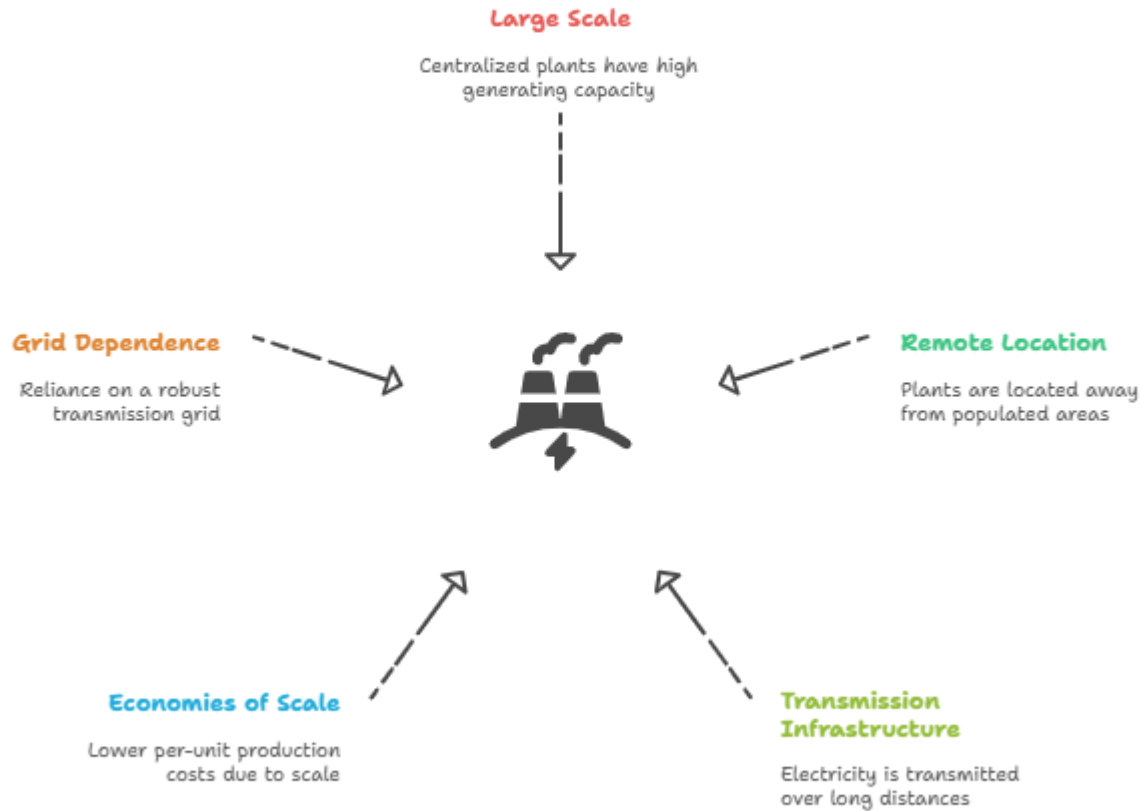
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Components of Centralized Generation

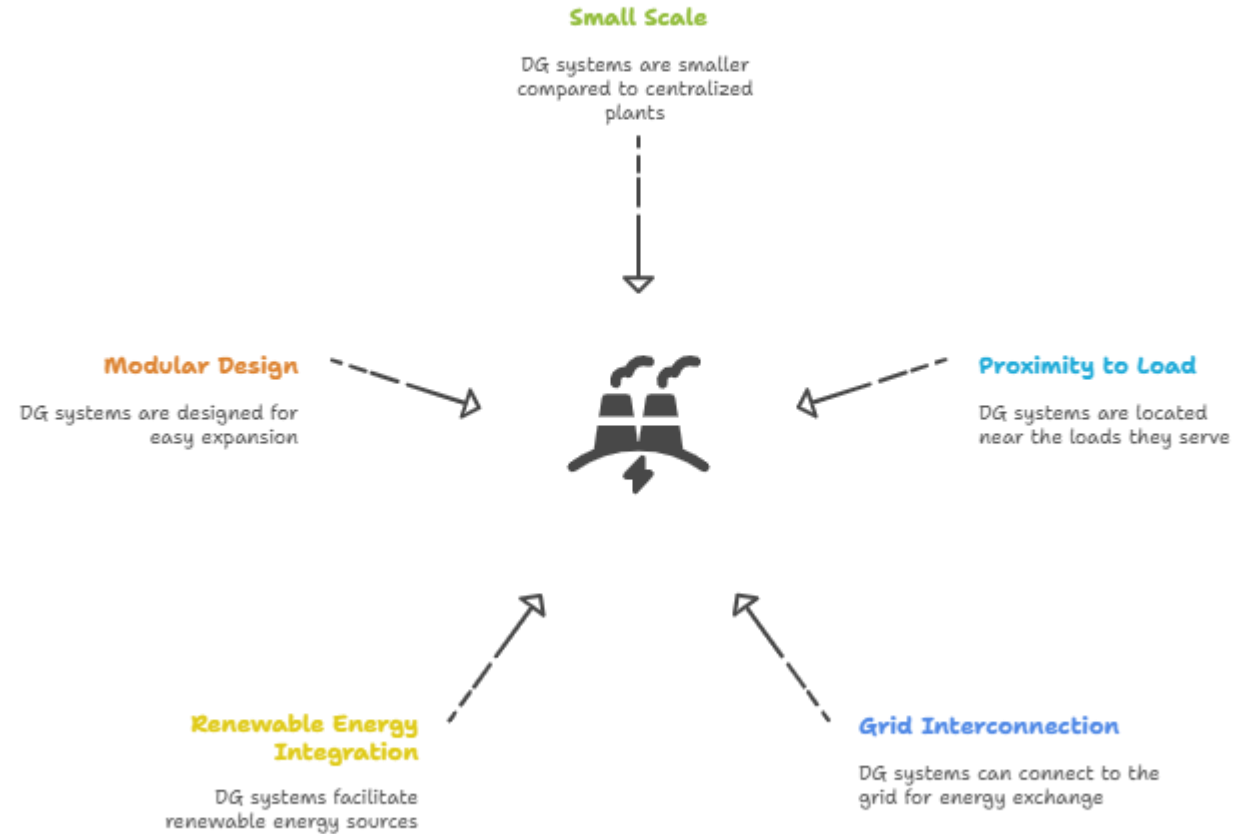


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Characteristics of Centralized Power Generation



Characteristics of Distributed Generation Systems



Centralized Power Generation

Pros

Economies of scale

Reliable power supply

Advanced technology

Cons

Transmission losses

Environmental impact

Outage vulnerability

Limited flexibility

High upfront costs

Distributed Generation

Pros

Reduced Losses

Improved Reliability

Environmental Benefits

Increased Resilience

Demand Response

Deferral of Upgrades

Cons

High Initial Costs

Complex Integration

Regulatory Challenges