



## Panel 2

# Energy Transition and Sustainable Infrastructure

### Panel Brief:

The global energy landscape is undergoing a profound transformation as nations worldwide are striving to achieve ambitious climate goals while ensuring energy security and economic growth. Alongside this shift, the development of sustainable infrastructure is critical to supporting resilient and low-carbon growth.

Panel discussion will explore the intersection of energy transition and sustainable infrastructure, focusing on the following themes:

#### 1. Key Drivers of Energy Transition

- Policy frameworks and regulatory incentives driving clean energy adoption.
- Technological advancements in energy generation, storage, and efficiency.
- Role of financing mechanisms, including green finance and carbon markets.

#### 2. Challenges in Scaling in Sustainable Infrastructure

- Integration of renewable energy into existing grids and transportation systems.
- Addressing resource constraints and supply chain vulnerabilities.
- Ensuring equitable access to clean energy solutions.

#### 3. Innovative Solutions and Pathways

- Digital technologies for sustainable infrastructure management.
- Role of public-private partnerships in accelerating project implementation.
- Strategies for decarbonizing hard-to-abate sectors.
- Monetizing carbon credits.

#### 4. Regional and Global Perspective

- Lessons from global success stories and energy transition.
- Contextualised challenges and solutions for emerging economies.
- COP targets for India-pathway to achieve them.
- The role of international collaborations in achieving shared climate goals.