

# 2025 EAS Conference Thematic Areas

## Day 1: Technical and Operational Aspects

### I. GERD Design, Construction, and Operation

1. GERD design and Blue Nile hydrology
2. Construction challenges and lessons learned
3. Five-year filling process and hydrological impacts
4. Operational strategies for variable hydrology
5. Energy production and regional power demands

### II. Water Resource Management in the Nile Basin

1. Current water stress and future projections
2. Irrigation needs and agricultural development
3. Water conservation and efficiency measures
4. Climate change impacts on the Nile Basin
5. Flood and drought management strategies

### III. Environmental and Socio-economic Impacts

1. Ecosystem changes and biodiversity
2. Fisheries development in GERD Lake
3. Tourism potential and infrastructure development
4. Resettlement and community impacts
5. Ancillary benefits of GERD (fisheries, tourism, etc.)

### IV. Technical Cooperation and Data Sharing

1. Hydrometeorological monitoring networks
2. Remote sensing applications for water management
3. Weather and climate prediction for reservoir operation
4. Mutual data sharing protocols and platforms
5. Capacity building for dam operation and management

## Day 2: Policy, Cooperation, and Future Development

### V. GERD Negotiations and Agreements

1. Historical context of GERD negotiations
2. Declaration of Principles (DoP) and its implementation
3. International mediation efforts (AU, UAE, etc.)
4. Future of negotiations and conflict resolution
5. Media portrayal and public diplomacy

### VI. Cooperative Framework Agreement (CFA) and Regional Cooperation

1. CFA principles and implementation challenges
2. Egypt and Sudan's positions on the CFA
3. Institutional frameworks for basin-wide cooperation
4. Water sharing and allocation mechanisms
5. Potential for water trading in the Nile Basin

### VII. Agricultural Development and Food Security

1. Small, medium, and large-scale irrigation projects
2. Commercial crop production and water use efficiency
3. Agricultural processing, storage, and transport infrastructure
4. Regional food security strategies
5. Soil and water conservation practices

### VIII. Energy Cooperation and Infrastructure

1. GERD power generation and regional energy markets
2. Transmission infrastructure for power sharing
3. Renewable energy integration in the Nile Basin
4. Energy policy harmonization among riparian countries
5. Financing models for energy projects

### IX. Future Water Development in the Nile Basin

1. Planned dams and water infrastructure projects
2. Balancing water use expansion with sustainability
3. Integrated water resource management approaches
4. Transboundary water governance mechanisms
5. Adaptive management strategies for climate change

## **X. Pathways to Sustainable Cooperation**

1. Lessons learned from GERD for future projects
2. Building trust and fostering diplomatic relations
3. Enhancing technical and institutional capacity
4. Promoting equitable development in the Nile Basin
5. Vision for long-term regional cooperation and development