



## 2 Renewable Energy and Storage Technology: Impact on Grid Resilience in Energy Mix

Presented by

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11:00 AM - 12:30 PM



Room One, Grand Ballroom

Oman Convention & Exhibition Centre

### Session Outline

#### Deeper dive on BESS technologies:

- Typical BESS layout and components
- Key technical concepts (degradation, RTE, Overbuild, Augmentation, Cycling, SOC management, controls)
- Technology Trends

#### Challenges in BESS integration

- Transmission network constraints (some local insights about Oman transmission network would be beneficial)
- Site selection and development
- Safety

#### Deeper dive on BESS use cases:

- Energy shifting
- Ancillary services
- Emergency back-up
- BESS+ Solar/Wind/Gas/Hydrogen
- Behind the meter

#### BESS O&M

- Augmentation
- Operation restrictions
- Maintenance

Limited seats available

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