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Sustainability &
Energy Practitioners
Association



INTERNATIONAL ADVANCED TRAINING PROGRAMME

BATTERY ENERGY STORAGE SYSTEMS (BESS)



18-20 AUGUST 2026



PSG INSTITUTE OF ADVANCED STUDIES
PSG COLLEGE OF TECHNOLOGY CAMPUS
COIMBATORE – 641004
TAMIL NADU, INDIA



ABOUT THE PROGRAM

This three-day advanced training programme provides a comprehensive understanding of Battery Energy Storage Systems (BESS) for utility-scale applications.

The programme combines technical fundamentals, financial evaluation & feasibility, safety standards & codes, operational strategies, and real-world case studies, equipping participants to make informed investment and project development decisions within the Indian Energy Sector.

WHY THIS PROGRAM

Battery Energy Storage Systems (BESS) are becoming a critical component enabling India's clean energy transition by improving grid stability, supporting greater integration of renewable energy, and strengthening energy security.

This programme equips participants with practical knowledge, technical expertise, and decision-making tools required to design, evaluate, implement, and manage successful utility-scale BESS projects.

KEY FOCUS AREA

- Renewable Integration
- Grid Stability
- Peak Load Management
- Energy Security
- Clean Energy Transition

PROGRAM HIGHLIGHTS

- Expert-led Sessions
- Practical & Application-Oriented Learning
- Financial Modelling, Feasibility & Risk Assessment
- Safety Standards & Best Practices
- Real-world Case Studies
- International Codes & Standards
- Interactive Learning & Discussions

KEY LEARNING OUTCOMES

Upon successful completion of the programme, participants will be able to:

- Understand BESS fundamentals, developing technologies, applications, and system design principles.
- Perform high-level system sizing and financial assessments.
- Evaluate safety standards, codes, and contractual frameworks.
- Contribute to informed investment decisions and utility-scale BESS project development.

WHO SHOULD ATTEND

- Project developers and investors
- Energy consultants and advisors
- Grid operators and utilities
- Policy makers, regulators, and financial institutions
- Engineering and technical professionals



PROGRAM STRUCTURE

DAY 1

Foundations, Technologies & Financial Assessment

Topics Covered:

- Introduction to Battery Energy Storage Systems (BESS)
- BESS Technologies and Applications
- Financial Modelling and Risk Assessment
- System Design and Sizing

DAY 2

Safety, Standards & Investment Considerations

Topics Covered:

- Codes and International Standards
- BESS Safety Design and Mitigation Measures
- Safety Standards
- Warranties, Performance Guarantees and Long-Term Service Agreements (LTSA)

DAY 3

Implementation, Operations & Programme Closure

Topics Covered:

- BESS + Renewables Co-Location
- Construction and Commissioning
- Asset Operation, Maintenance, and Analytics
- Investment Decision Guidelines
- Course closure & Certification

CERTIFICATION

International certificate Jointly issued by



ABOUT SEPA

The Sustainability and Energy Practitioners Association (SEPA) is a non-profit, industry-led organization dedicated to accelerating India's sustainable energy transition through professional capacity building, industry collaboration, and knowledge dissemination.

ABOUT RENAC

Renewables Academy (RENAC) AG, Berlin, Germany, is an internationally recognized training organization with over 20 years of expertise in renewable energy, green hydrogen, and energy efficiency education for professionals worldwide.

ABOUT PSGIAS

PSG Institute of Advanced Studies (PSGIAS), Coimbatore, is a premier interdisciplinary research institution dedicated to advanced research and innovation in clean energy technologies, advanced materials, nanotechnology, healthcare, sustainability, and smart manufacturing.

SEPA ORGANISING COMMITTEE

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