

# BATTERY ENERGY STORAGE SYSTEMS

SAFE, RELIABLE & VIABLE



BUREAU  
VERITAS

# SAFETY, QUALITY AND PERFORMANCE THROUGHOUT THE LIFECYCLE

Bureau Veritas supports the accelerated deployment of battery energy storage installations with dedicated solutions for project developers, EPCs, investors and lenders.

Safety, quality and performance are paramount when developing and operating Battery Energy Storage System standalone installation or integrated with renewable generating resources.

Bureau Veritas is with you every step of the way throughout the asset lifecycle to ensure projects run safely and efficiently.

Our experts act as your eyes and ears on the ground throughout asset origination, project development and project deployment. Thanks to our services, you have the certainty that your projects comply with regulations and industry standards.

OWNER'S ENGINEERING • TECHNICAL ADVISORY • INSPECTION & TESTING



## DESIGN

Meets requirements & secure viability

- Feasibility studies
- Design review & verification
- Site assessment
- Technical advisory for hybridization with BESS (integration with Wind/ Solar PV plants/ Hydrogen)



## PERMITTING

Reduce development risk

- Permitting support
- Risk assessment
- Environmental impact assessment
- Grid connection support
- Due diligence
- Investor/lender technical advisory



## PROCUREMENT

Access a global, reliable supply chain

- Supply chain technical assessment
- Technical procurement support
- Shop inspections (QA/QC)
- Expediting
- Factory acceptance tests
- Pre-shipment testing
- Packaging, transport, loading & unloading supervision



## CONSTRUCTION

Run projects safely and to schedule

- Project & construction management support
- Construction supervision
- On site QA/QC
- On site HSE
- Commissioning and test run supervision
- Performance tests
- Cybersecurity review & testing



## ASSET OPERATION

Ensure availability & shorten outage time

- Periodic mandatory inspections
- Performance testing
- Regulatory & functional compliance
- On site QA/QC
- On site HSE
- Environmental monitoring
- Failure & damage analysis
- Outage planning & support
- Operation training
- Cybersecurity awareness & training



## ASSET MANAGEMENT

Extend operating life & increase performance

- O&M management support
- Maintenance strategies
- Condition monitoring & assessment
- Reliability engineering
- Risk-based inspections
- Performance optimization
- Remaining life assessment & lifetime extension
- Decommissioning support
- Waste management & recycling surveillance
- Cybersecurity strategy & testing



## **OWNER'S ENGINEERING SHAPING TRUST IN PROJECT DEPLOYMENT**

Our owner's engineering services ensure you're supported throughout site selection, design, development, procurement and construction of your power plant project. You can trust that your new asset is built to required standards and to industry best-practice standards.

## **TECHNICAL ADVISORY SERVICES GLOBAL EXPERTISE DELIVERED LOCALLY**

Technical experts in our global network of Technical Centers help you navigate the complexity of technical, permitting and regulatory requirements at every step. These global experts relevant to the supply chain and life cycle of your asset provide the most comprehensive services for your local projects wherever they are.

# **SHAPING A WORLD OF TRUST**

**Bureau Veritas** is a Business to Business to Society company, contributing to transforming the world we live in. A world leader in testing, inspection and certification, we help clients across all industries address challenges in quality, health & safety, environmental protection and social responsibility.

## **POWER FOR TODAY AND TOMORROW**

Your partner in the energy transition, Bureau Veritas helps society to meet today's energy needs and transition to a low-carbon future.



**BUREAU  
VERITAS**

Shaping a World of Trust

For more information  
contact Bureau Veritas:

Le Triangle de l'Arche  
8 cours du Triangle, CS 90096  
92937 Paris La Défense Cedex  
FRANCE

[bureauveritas.com](http://bureauveritas.com)