

ENERZIX

Renewable Energy and Power Grid Expert



Design and Engineering Solutions for  
Renewable Energy and Power Grid Projects

## DESIGN AND ENGINEERING SERVICES

End-to-End Project Support  
Specialized Engineering & Grid Studies  
Owner's Engineering & Utility Advisory  
Capacity Building & Strategic Consulting

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ENGINEERING TOMORROW'S POWER SOLUTIONS



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# 01 PART

## About Enerzix

01/ Overview

02/ Business



## About Enerzix

At ENERZIX, we help customers navigate the energy transition through expert engineering, consulting, and project execution support.

We provide end-to-end support, starting from early stages of the project to successful execution. Our integrated approach combines strategic foresight, robust engineering capabilities and execution planning to help Utilities, Developers and Contractors (EPCs) navigate complex project lifecycles with confidence. Whether it is designing renewable energy systems, preparing detailed engineering, or as owner's engineer, we ensure quality, compliance and long term value in every step.



# Business



## End-to-End Energy Project Support

Delivering comprehensive support from feasibility studies and concept design through to detailed engineering and execution oversight, ensuring successful project development and delivery.



## Grid Integration & System Studies

Specialists in Power System and Grid Integration Studies, including load flow analysis, grid code compliance, transient stability, harmonic analysis, and related system performance evaluations.



## Procurement & Tender Consulting

Providing end-to-end support throughout the bidding process, including pre-bid engineering, detailed engineering, vendor evaluation, and procurement support, to secure a winning bid.



## Utility Advisory & Strategic Planning

Providing network audits, specialized training, and capacity-building services, while aligning strategies to meet evolving Power and Renewable Energy requirements.



## Owner's Engineer & Project Supervision

Serving as Project Management Control Engineer on behalf of project owners, ensuring quality assurance, regulatory compliance, and effective oversight throughout the bidding and project execution phases.

# 02

## PART

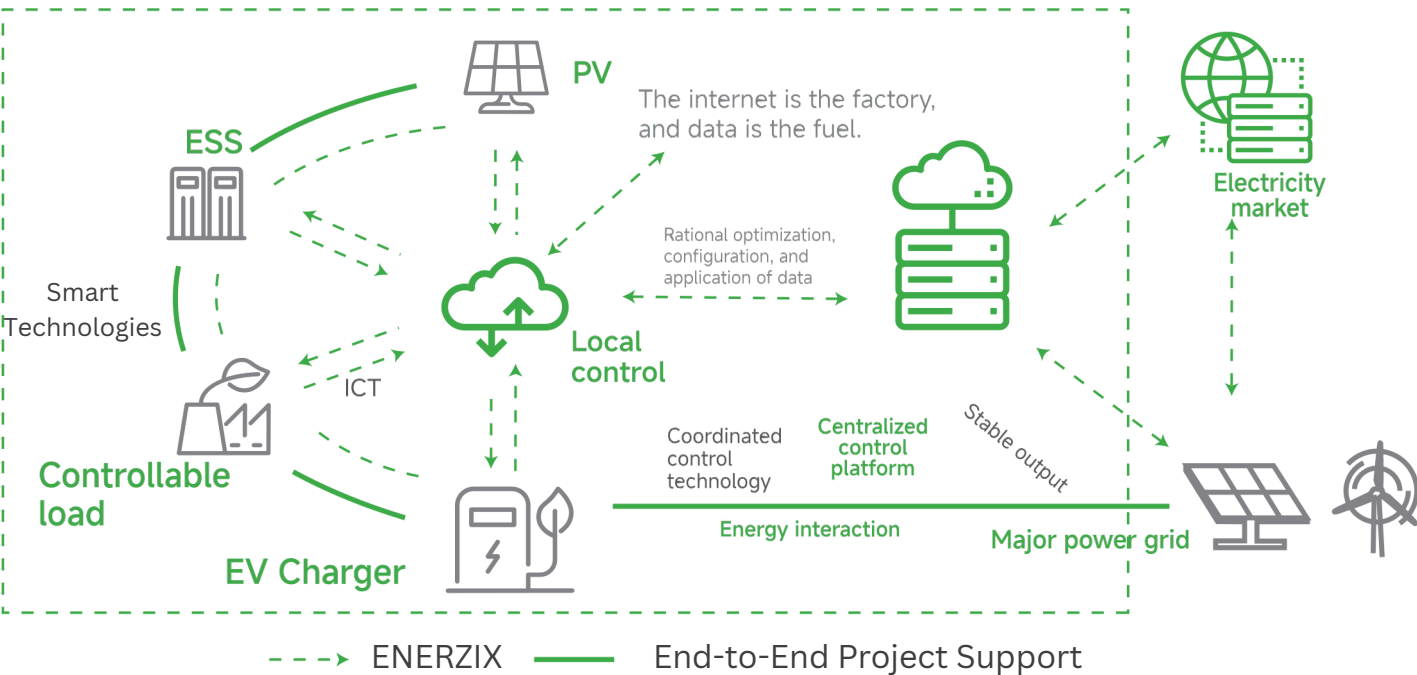
## Project Development & Delivery

- 01 / End to End Project Support
- 02/ Strategic Advisory & Feasibility
- 03/ Concept & Detailed Engineering
- 04/ Owner's Engineer & Project Execution
- 05/ Renewable Energy Systems
- 06/ Procurement Consulting & Project Support

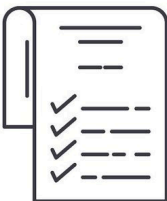


# Project Development & Delivery

Energix delivers comprehensive solutions across the full spectrum of energy infrastructure development. From project initiation and technical feasibility to engineering delivery and execution monitoring, we support clients in turning complex concepts into operational assets. Our cross-disciplinary expertise in renewables, grid integration, and project oversight allows us to add value at every stage, whether advising on engineering solutions, system architecture, developing tender-ready documentation, or representing owners to ensure alignment, quality, and performance.

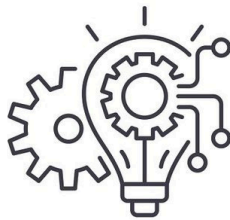


## Strategic Advisory & Feasibility >>>



- Techno-economic feasibility studies
- Risk analysis and mitigation strategy
- Lender's and owner's advisory support
- Investment planning and project structuring

## Concept & Detailed Engineering >>>



- Concept-to-detailed design engineering
- Grid integration Studies (solar, wind, BESS)
- Comprehensive support for bidding

## Owner's Engineer & Execution Planning >>>



- Engineering design and technical reviews
- Project oversight and coordination during execution
- Preparation & validation of technical specifications
- Contract formulation and negotiation
- On-site supervision during execution

## Renewable Energy Systems >>>



- Conceptual design & sizing (solar, wind, BESS).
- Grid interconnection & impact studies
- Strategic renewable energy planning
- Independent engineering services

## Procurement Consulting & Project Support >>>



- Pre-procurement engineering support
- Preparation of RFQ/RFP packages
- Development of technical specifications
- Vendor pre-qualification/ evaluation
- Procurement planning & execution scheduling,

# 03

## PART

### Technical & Utility Services

- 01/ Grid Studies & Network Analysis
- 02/ Transmission & Distribution Engineering
- 03/ Network Performance & Reliability Assessments
- 04/ Grid Digitalization & Control Systems

### Technical & Utility Services

Energix offers specialized technical studies, utility audits, and operational support to enhance grid reliability, ensure compliance, and improve overall network resilience.

#### Grid Studies & Network Analysis >>>

- Grid stability assurance through load flow, short-circuit, and stability studies.
- Power quality improvement via harmonic analysis and insulation coordination.
- Smart network planning with accurate load forecasting and master planning.
- Regulatory-compliant optimization of voltage control and reactive power flow.

#### Transmission & Distribution Engineering >>>

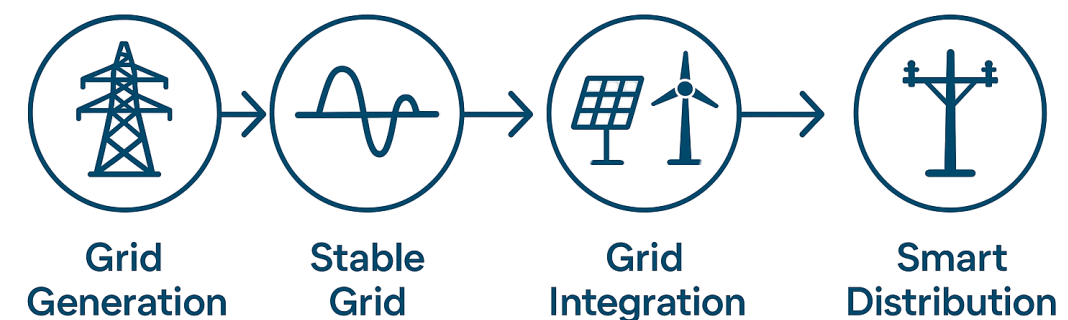
- Substation design (primary/secondary) to ensure safe and efficient power flow
- Optimized routing (design) of HV cables and overhead lines for reliability & cost-efficiency
- Integrated SCADA, protection, telecom, and earthing systems for smart & secure grid
- Precise equipment specifications and vendor assessments for project needs & standards

#### Network Performance & Reliability Assessments >>>

- Operational audits to enhance utility efficiency and reduce downtime
- Protection setting reviews and outage diagnostics for improved system reliability
- Network resilience assessments to strengthen grid security and performance

#### Grid Digitalization & Control Systems >>>

- Modern SCADA systems for real-time monitoring and control
- Integrated smart grid solutions for enhanced reliability and flexibility
- Data-driven automation strategies to optimize grid performance and response



## Resilient, Reliable, and Future-ready Power Networks >>>

At Enerzix, our technical and utility services provide the foundation for resilient, reliable, and future-ready power networks. By combining advanced system studies with deep grid expertise, we help utilities and infrastructure developers overcome complexity and ensure safe, efficient operations.



Renewable Energy  
Generation



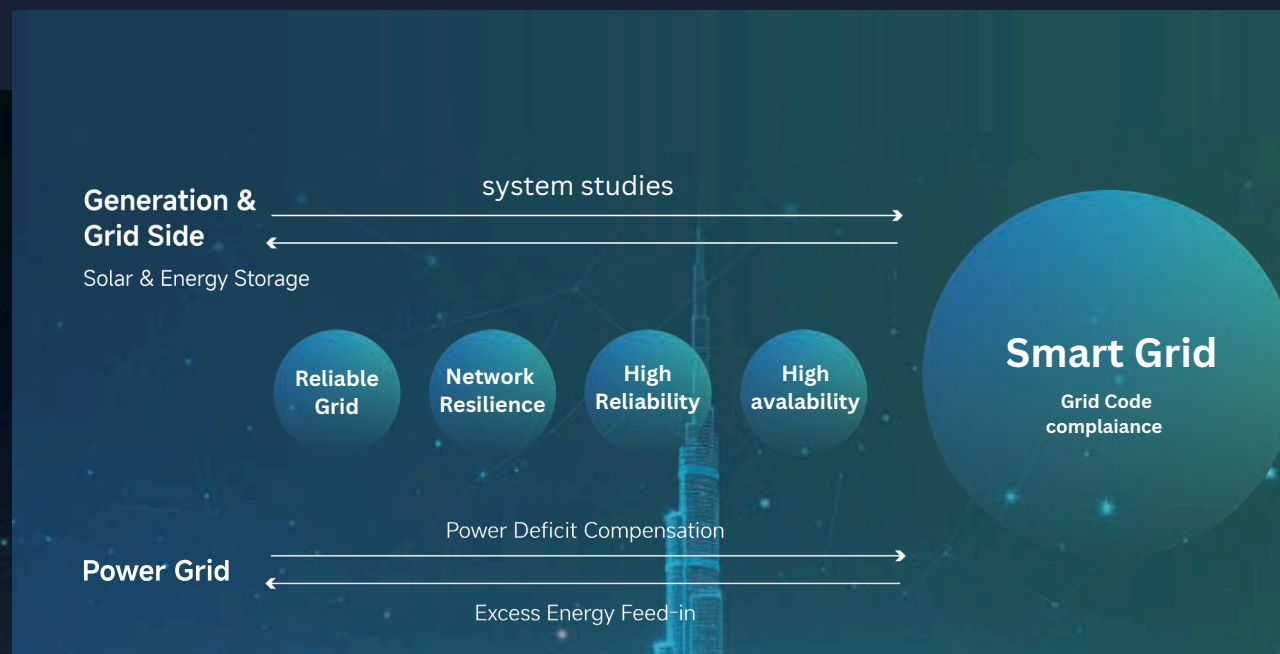
Smart Microgrids  
& Distribution



Energy Efficiency



Green Energy  
Utilization



# 04 PART

## Capacity Development & Advisory

- 01/ Customized Technical Training
- 02/ Executive Advisory & Strategic Workshops
- 03/ Knowledge Transfer & Mentorship Programs
- 04/ Advisory on Innovation & Emerging Technologies



# Capacity Development & Advisory

## Empowering Institutions for a Smarter Energy Future >>>

At Enerzix, we believe that the success of energy transition projects is not only dependent on robust engineering and infrastructure but also on the readiness and capability of the institutions and people driving them. Our Capacity Building & Advisory practice is focused on equipping customers with the knowledge, tools, and strategic direction needed to operate confidently in an increasingly complex energy landscape.

We partner with utilities, regulators, energy developers, and government agencies to strengthen institutional capacity, bridge knowledge gaps, and enable smarter decision-making across the project lifecycle.

## Our Focus Areas >>>

### Customized Technical Training

We deliver tailored training modules for engineers, operators, and technical teams focused on:

- Renewable energy integration (solar, wind, BESS)
- Grid code compliance and interconnection planning
- Power systems operation and control
- SCADA, protection systems, and substation automation
- Energy management systems (EMS, ADMS)

These programs are adapted to regional challenges and are available in on-site or virtual formats, with interactive sessions, real-life case studies, and expert-led discussions.

### Executive Advisory & Strategic Workshops

We support leadership teams and key stakeholders with:

- Strategic planning for energy transition and net-zero alignment
- Market and technology briefings on evolving global energy trends
- Workshops on regulatory pathways, financing mechanisms, and bankability of clean energy projects
- Organizational change management to embed sustainability at the core

These sessions help drive alignment between technical planning and policy or commercial objectives.

## Advantages

- Customization
- Empowerment
- Collaboration
- Innovation
- Sustainability
- Excellence

### Knowledge Transfer & Mentorship Programs

Enerzix embeds capacity development into the delivery of our engineering and consulting services. Through mentorship and shadowing programs, we:

- Guide local teams in understanding engineering deliverables
- Transfer knowledge on project execution, procurement strategies, and vendor engagement
- Support internal capability building for long-term self-sufficiency

This ensures our partners develop internal skills to sustain and replicate project successes.

### Advisory on Innovation & Emerging Technologies

We keep our customers ahead of the curve by advising on

- Digital grid evolution and smart infrastructure
- Integration of AI, IoT, and advanced analytics in grid operations
- New materials and technologies in transmission and distribution
- Innovations in energy storage, hybrid systems, and grid services

Our support helps stakeholders assess readiness, plan pilots, and de-risk adoption of cutting-edge solutions

*With Enerzix, capacity development is not an afterthought - it's a strategic enabler for energy transformation. We build the capabilities that help customers lead the transition, not just follow it.*