

Energy Efficiency

Company

Company Showcase







Introduction

What is Energy Efficiency Solutions?



Mobile Testing Laboratory for LVRT/HVRT Assessment We specialize in the design, manufacturing, and commissioning of mobile laboratories for testing:

- Voltage dips
- Overvoltages
- Phase shifts
- Mobile substations

Additionally, we design, manufacture, and commission mobile substations to ensure power supply in areas where traditional substations are either malfunctioning or unavailable. Our solution is fast and efficient, as it is mounted on a truck platform, allowing easy transportation to the required location.







Our Vision & Mission

Our Vision

To be recognized as leading global engineering services and R&D&I company in Energy Sector.

Our Mission

We stive to offer our customers, technology-based solutions for the optimization of energy assets.

www.arrowpioneers.com



How it works:

We offer our customers a comprehensive range of services for analyzing and assessing the impact of renewable energy generation systems on the grid.

GRID QUALITY ASSESSMENT

- √ Audits for evaluation of electrical performance and quality of electricity production
- √ Flicker level
- √ Harmonic component

GRID QUALITY ASSESSMENT

- √ Frequency response
- √ Voltage control
- √ Active and reactive power provision
- √ Connection

GRID INTEGRATION STUDIES

- √ Load flow and impact analysis
- √ Studies of short-circuits
- √ Transient stability analysis
- √ Analysis through simulation
- ✓ Impact analysis on the renewable network

GRID INTEGRATION STUDIES

- √ Modeling and simulation
 of wind farms and solar
 plant √ Model validation

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- ✓ Insulation coordination✓ Ad-hoc solutions design
 - ✓ Protection setting calculation
- ✓ Protection coordination studies

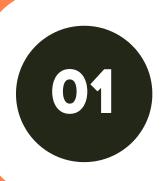




Consulting and Engineering Services

- Assistance in decision-making and upgrading of new and existing facilities/power plants
- Guidance on implementing new country-specific regulations





Technical support

- ▶ Resolution of technical issues
- ► Feasibility studies
- ► Troubleshooting facilities

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Formative support

- ► Theoretical practical formative support
- ▶ Training seminars

03

Services

- ► Design and consultancy in inductive components and custom electronics
- ► Design and consultancy in rotating electrical machines
- ► Design and consultancy in EV Charging stations, Battery Energy Storage Systems



Thank You.

More Information

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