

NDA Power Consulting – Our Services (Short Brochure)

NDA Power Consulting

(part of NDA International Limited)

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About NDA International Ltd.

NDA International Ltd. is a leading Grid, Energy, and Power Consultancy specializing in Electricity Grid Transmission and Distribution (T&D;) systems. We provide comprehensive, end-to-end solutions for grid connections, power system analysis, design, and strategic advisory services.

Our team of seasoned experts supports clients through every stage of their project lifecycle, from project origination, initial concept planning, grid applications, engineering and design, procurement, construction and energisation, and grid code compliance optimising CapEx and OpEx for grid connection and electrical Balance of Plant (BoP). Furthermore, the technical due diligence during asset acquisition or sale. We are dedicated to delivering innovative, cost-effective solutions that help clients navigate the complex challenges of modern power systems.

Our Expertise

We specialize in a wide range of services across the power sector, including:

Grid Connections: Full-cycle management of the grid connection process, from grid capacity identification and application submissions to offer negotiations and final operational notification (FON).

Renewable Energy & Storage Projects: Project development, engineering and design, procurement, construction, energisation, grid code compliance, Power Purchase Agreements (PPAs) and Technical due diligence and advisory services for the acquisition of new power assets, including renewable energy and storage projects.

Power System Design & Analysis: Planning and design for T&D;, industrial power systems (e.g., Oil & Gas, commercial developments, water treatment), renewable energy projects, storage projects, and power system simulations to ensure optimised designs, the grid code compliance and operational efficiency.

Investment & Strategy: Strategic planning for the development and modernisation of power assets, focused on reducing grid-related costs and improving operational efficiency. Advisory on short-term and long-term strategy for the grid systems to achieve net-zero targets.

We are well-versed in international design standards and practices, including IEC, ANSI, IEEE, and UK-specific ENA recommendations. Our work is fully covered by professional indemnity insurance, providing peace of mind on high-risk projects.

Why Choose NDA International Ltd.?

The power industry is evolving, and with it come significant challenges—from network capacity deficiencies and connection delays to the need for greater operational efficiency. At NDA, we have developed a unique and innovative business model to address these issues head-on.

An Expert-Driven, Cost-Effective Model

Unlike traditional consultancies, our model leverages a global network of industry experts and a pool of highly experienced, semi-retired specialists who work with us on a flexible basis. This approach allows us to deliver exceptional quality at highly competitive rates, providing our clients with a significant commercial advantage without compromising on technical excellence.

A Proactive Partnership

We believe in a trustworthy and transparent approach. Our deep relationships and extensive experience working with transmission and distribution operators worldwide enable us to proactively manage our clients' interests, mitigate risks, and streamline the entire grid connection process. We focus on specifying equipment and design configurations that reduce CapEx and compliance risks, ensuring a smoother path to project completion.

Our Services

We offer a suite of specialized technical consultancy and engineering services that cover a project's entire lifecycle.

Grid Connection Management We provide end-to-end support, offering specialist guidance through every stage of your grid connection, including:

Grid Capacity and Feasibility: Identifying network capacity, conducting site-specific feasibility studies, and outlining connection options and costs.

Application & Offer Management: Preparing, submitting, and managing grid applications and offers, with a focus on highlighting and negotiating key risks and costs.

End-to-End Project Support: Aligning non-contestable, contestable, and BoP scopes, supporting ICP procurement, and liaising with operators until final grid compliance is achieved.

Due Diligence: Acting as a trusted advisor during project acquisition or sale, identifying and advising on key technical, financial, and procedural risks.

Power System Engineering & Analysis Our expert engineers use industry-leading software (DigSILENT, PSS/e, PSCAD, ETAP) to perform a full range of power system studies.

Comprehensive Studies: Load flow, short-circuit, reactive power, and dynamic analysis.

Specialized Analysis: Harmonic, flicker, and power quality assessments (G5/5, P28, P29).

Renewables & Storage: Grid code compliance (G99) studies, battery sizing, and yield analysis.

Transient & Stability Studies: Electro-magnetic transient (EMT) and switching studies, including insulation coordination and TRV/TOV analysis.

Additional Services

FEED Studies & Design: Full engineering design packages, including SLDs, substation layouts, and technical specifications for electrical BoP.

Private Wire Connections: Specialist services for integrating renewable energy plants with existing industrial and commercial networks.

Power Quality Management: On-site data logging and measurement to analyse power quality, identify disturbances, and troubleshoot issues.

Owners' Engineer Services: Project management and construction supervision to ensure your project is executed to the highest standards.

Case Studies

See attached

Our Team

(We can insert photo and short description of each)

Musa

Simon

Raju

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Aamir

Adika

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