



RABINDRAN
CONSULTANTS



Your Technical Advisor

New-Energy Consultancy

Green Hydrogen | Green Ammonia | Solar PV | Wind | Grid Storage

Lead Consultant's Statement



RabindranS Consultants is a proprietary start-up in the Renewable Energy space.

We provide Technical and Advisory services in the New-Energy Sectors of Solar, Wind, Grid Storage, Green Hydrogen and Green Ammonia.

Our earnest focus is to make an impact in the Renewables sector, contributing to global decarbonisation and sustainability.

As governments ramp up policy support for decarbonisation to meet Paris goals and as manufacturers scale up R&D, the world will be flooded with new technology options for modules, inverters, wind turbines, BESS and other storage, hydrogen, ammonia and other new energy carriers.

In order to meet net-zero carbon targets, Power producers, Energy carriers and Consumers worldwide will have to take tough strategic decisions regarding the timing and scale of adoption of new technologies.

**Each time, the trilemma of
Energy security, Sustainability and Cost has to be solved
RabindranS Consultants are in the thick of this action**

About us



We provide Technical and Advisory services in the New-Energy Sectors of Solar, Wind, Grid Storage, Green Hydrogen and Green Ammonia.

When taking first steps in these fast growing sectors, Organisations often start off with a lean technical team, or one that is staffed with experts from legacy sectors like Oil & Gas and Thermal power. They then depend on Consultancy firms for major strategic and technical deliverables. This approach works fine in specific projects with established technologies and well-defined outcomes.

Whereas in the fast-evolving world of RE, it requires a strong internal design team to sift through nebulous data, judge the technology risk, carry out experiments, innovate and juggle with cost and quality.



**RabindranS Consultants is well suited to fill this gap
for lean organisations**

We work through the available design team, mentoring and building up their capabilities and processes. We work with Management, advising and strategising as required.

**In all of the above we draw upon the rich experience of the Lead
Consultant, assisted by other professionals as required**

See the brief profile of the Lead Consultant at the end

Our offerings

We provide a comprehensive range of advisory services based on our clients' specific needs using our extensive knowledge in the new-energy domain



IPP / C&I Clients



New Investors in
RE Space



Equipment
Manufacturers



Solar PV Plant
owners



Lenders, Institutions,
Consulting Firms



Governments,
Conventional Power IPPs



RE Projects for IPP / C&I Clients

We provide a comprehensive range of services



DEALING WITH LENDERS

Deep engagement with LTA/LIE (Lender's Engineer) for complex projects and new technologies



MANAGEMENT ADVISORY

Your CTO on tap



COMPLIANCE ADVICE

Regulatory matters and Grid Connectivity



REPORTS

PFRs and Risk analysis

PROJECT DEVELOPMENT

Solar PV, Grid storage, Green Hydrogen, Green Ammonia - basic design, modelling, sizing, optimisation and costing



TECHNICAL BID SUPPORT

Complex tenders like Round-the-clock, Peak Power, ESS, Flexible power, Solar Park



TECHNOLOGY SELECTION & VENDOR ASSESSMENT

Inverter/PCS, Battery, Energy Storage System, Tracker, Robot, Electrolyser, Rectifier



New Investors in RE Space

We support new investors in technical decision making



LENDER ENGAGEMENT

Ensuring the buy-in of LTA/LIE (Lender's Engineer). Handling all submissions, presentations, query replies



MANAGEMENT ADVISORY

Project feasibility of Solar PV, Wind and ESS through basic design, sizing and costing



MANAGEMENT ADVISORY

on Regulatory matters and Techno Commercial environment in India



REPORTS

PFRs and Risk analysis

PROSPECTIVE ACQUISITIONS

Evaluation of operational plants - Assessment of state-of-health, performance and viability



TECHNICAL BID SUPPORT

End-to-end support in techno commercial Bid preparation



TECHNOLOGY SELECTION

Battery, Energy Storage System, Solar PV, Electrolyser



Equipment Manufacturers

Our services to manufacturers of Inverter, Robot, ESS, Battery, Electrolyser and Tracker are based on deep and relevant industry experience



CLIENT NETWORKING

Networking with potential clients, opening doors, creating possibilities

CLOSING DEALS

Sales support through deep technical authority and experience in the industry



PRODUCT IMPROVEMENT

Driving improvements in product design through FMEA, performance feedback and through prediction of industry trends and client requirements

CLIENT MANAGEMENT

Client engagement and confidence building during failure events through 8D problem solving and implementation of corrective and preventive measures



Operational Solar PV Plants

We specialise in trouble-shooting operational plants and in implementing solutions with tangible results



YIELD IMPROVEMENT

Yield analysis of operational Solar PV plant, with solutions for low performance evidenced by measurable results

FAILURE ANALYSIS

Investigation of generic failures. Occurrence analysis involving inverters, transformers, modules etc., with corrective and preventive measures



SAFETY AUDIT

Safety audit suggesting detailed and practical corrective actions

TECHNICAL AUDIT

Technical audit of O&M to plug gaps in maintenance and operational practices and to ensure trouble-free operation for the lifetime of the plant



Lenders, Consulting Firms, other Institutions

We have a bouquet of offerings for financial and other institutions evaluating RE projects and programmes



TECHNICAL EVALUATION

Project proposals, PFRs
and DPRs



MANAGEMENT ADVISORY

New technologies of
Green ammonia,
Hydrogen electrolyser,
Solar PV, Battery, Other
Energy storage systems



PV PLANT PERFORMANCE

Performance
assessment of
Operational plants in
lender's portfolio



PROJECT EXECUTION

Project oversight
during construction
and commissioning

PROSPECTIVE ACQUISITIONS

Condition assessment
and performance analysis
of operational plants



ASSESSMENT OF COMPLEX PROPOSALS

Hybrid power, RTC and
Peak power, Green
Hydrogen and Green
Ammonia



RISK MANAGEMENT

Technical FMEA and Risk
analysis



Other Services

We are happy to provide all kinds of other technical support in Renewable Energy



IPPS IN CONVENTIONAL POWER SECTOR

Management advisory on strategic transition to RE

IPPS IN CONVENTIONAL POWER SECTOR

Advisory on utilising existing resources to build up a RE portfolio of Solar PV, Wind power and Hydrogen plant.
- basic design, modelling, sizing, optimisation and costing



TRAINING

Lectures and Training programmes in RE space

NATIONAL INITIATIVES

Support to Govt. sponsored committees in the formulation of strategy and regulations for RE



Rabindran Sundersingh

Lead Consultant Profile

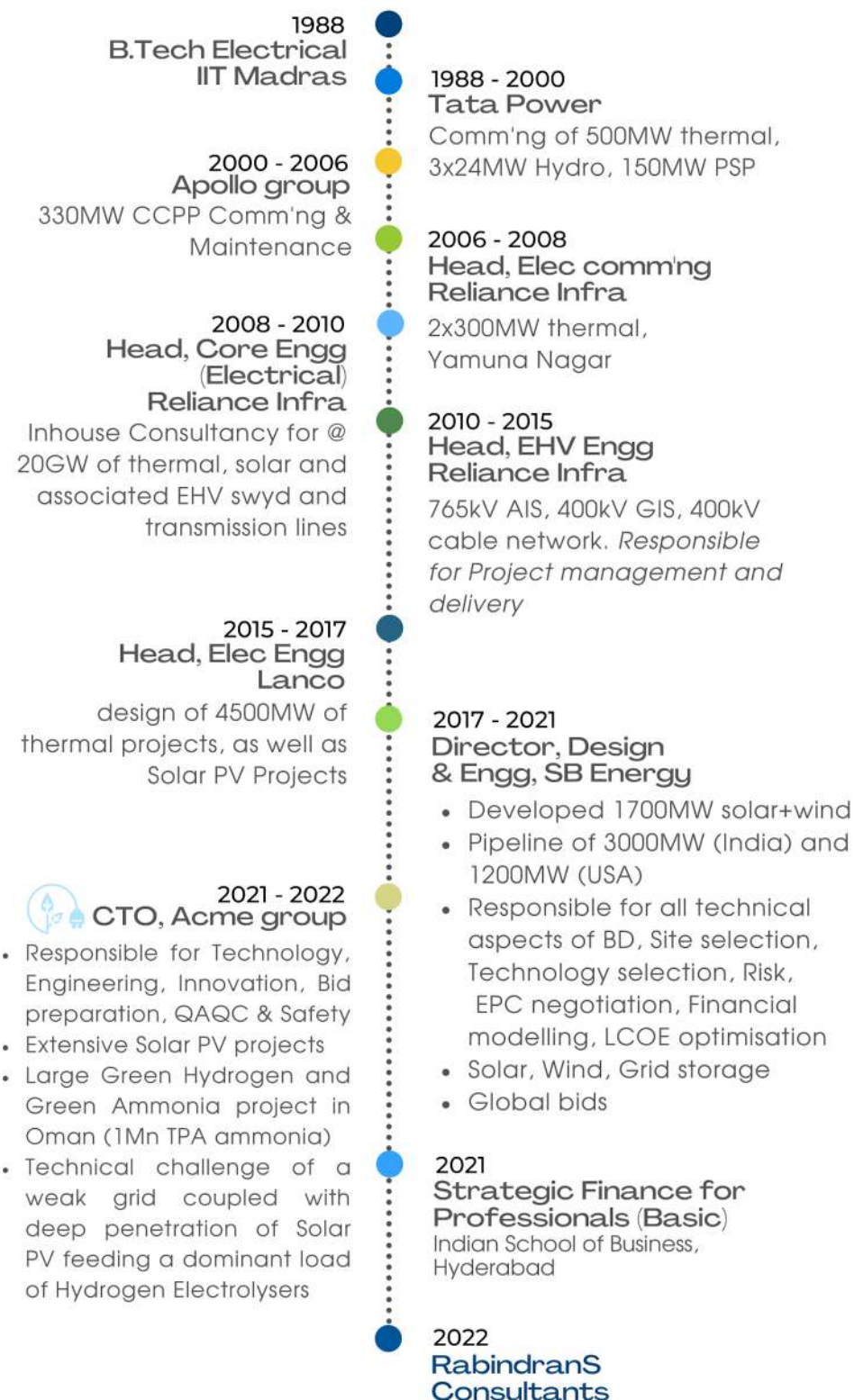
34 years in Development, Design, Engineering, Bidding, Commissioning and Maintenance of Solar, Wind, Hybrid, Thermal, Hydro Power plants, EHV systems, Hydrogen plants and Ammonia plants. He has led the Engineering/EPC/Operational functions of large organisations.



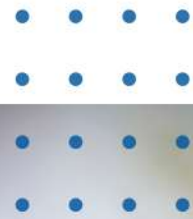
He is deeply committed to decarbonisation, climate goals and sustainability through the extensive use of renewable power, grid storage, hydrogen and ammonia



“The Large scale integration of Solar PV, Hydrogen and Ammonia had no real precedents and threw up several interesting challenges which required innovative design and close working with equipment manufacturers and academia to anticipate and solve problems”



Contact Us



**We aim to be your
technical advisor**

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