



Your Partner in **Sustainability**



Vision & Mission



VISION

To be a premier sustainability consulting company of the world

MISSION

One Stop Solution for Energy Transition

Technologies



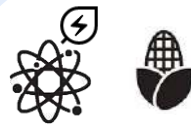
Hybrid Power
Projects



Renewable Power
Projects



Net Zero & EVs



G H₂ & Biofuel

Sunkonnect is a
Singapore based –
**premier suitability
consulting firm**



Timeline



Set up to help improve reliability of renewable assets



Started from Singapore & Malaysia – 100MW+ Solar pV project with 3 major players in the region



Expanded to India – did 3GW+ projects with 20+ major players



Expanded in China, Vietnam & Philippines – did 500MW+ project

5000+

Man days
work done



3 GW+

Total
Experience

4

Countries
Of operation

200+

Skilled employees &
associates across the
globe

50+

Satisfied clients
across globe

Team



Dr Avishek Kumar
Director

Avishek holds an MS degree in Microelectronics from the Technical University of Munich, Germany.



Dr Goutam Dalapati
CEO

Goutam is PHD in Physics having 15 years experience in device physics and Solar Cell fabrication.



Raghavendra Lawaniya
Director

Raghavendra has over 300 MW of system integration experience and a degree in Electrical & Electronics Engineering.



Dr Swapnil Dubey
Scientific Advisor

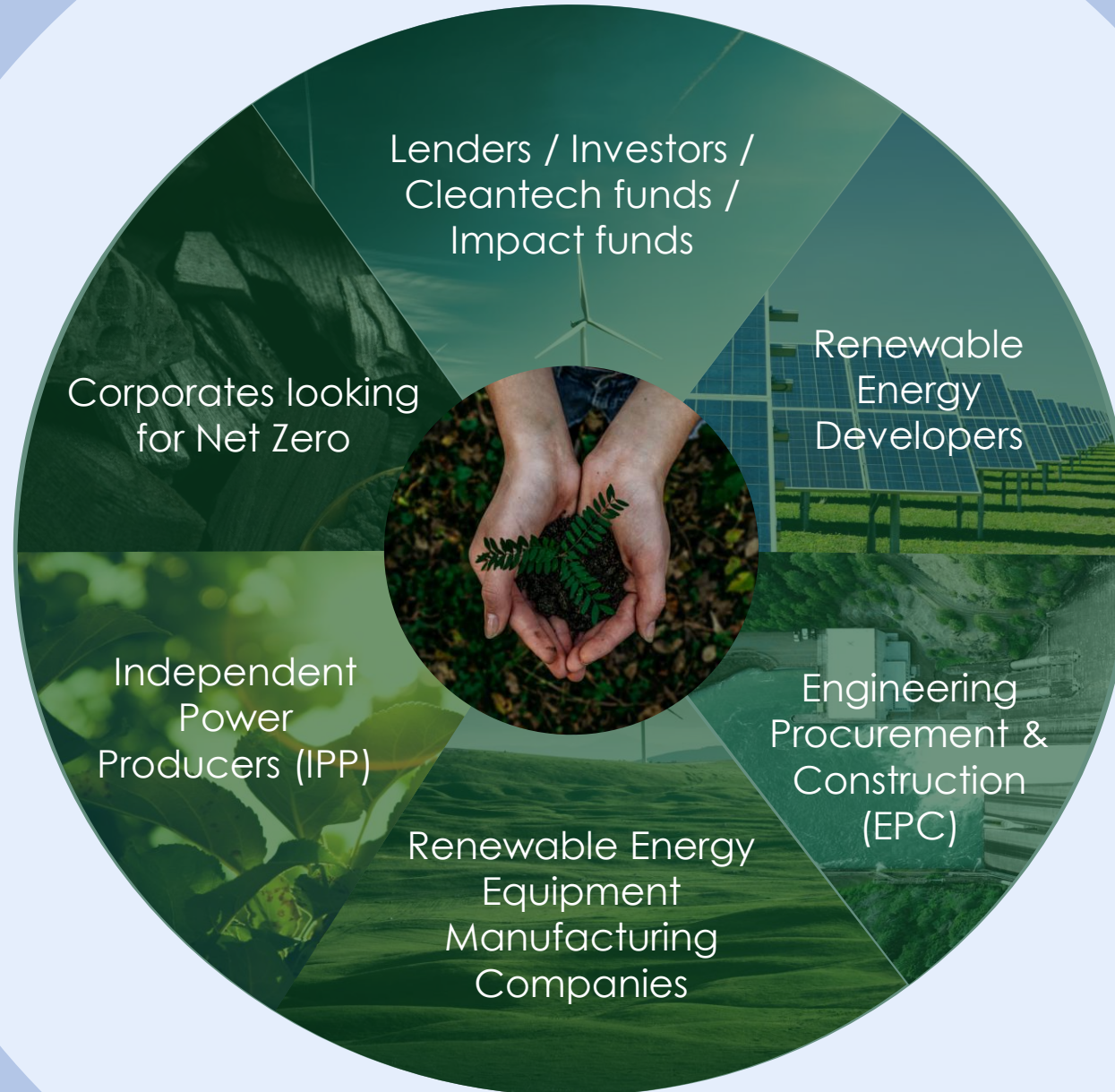
Dr Dubey is working in the areas of solar thermal, solar photovoltaics, thermal storage.



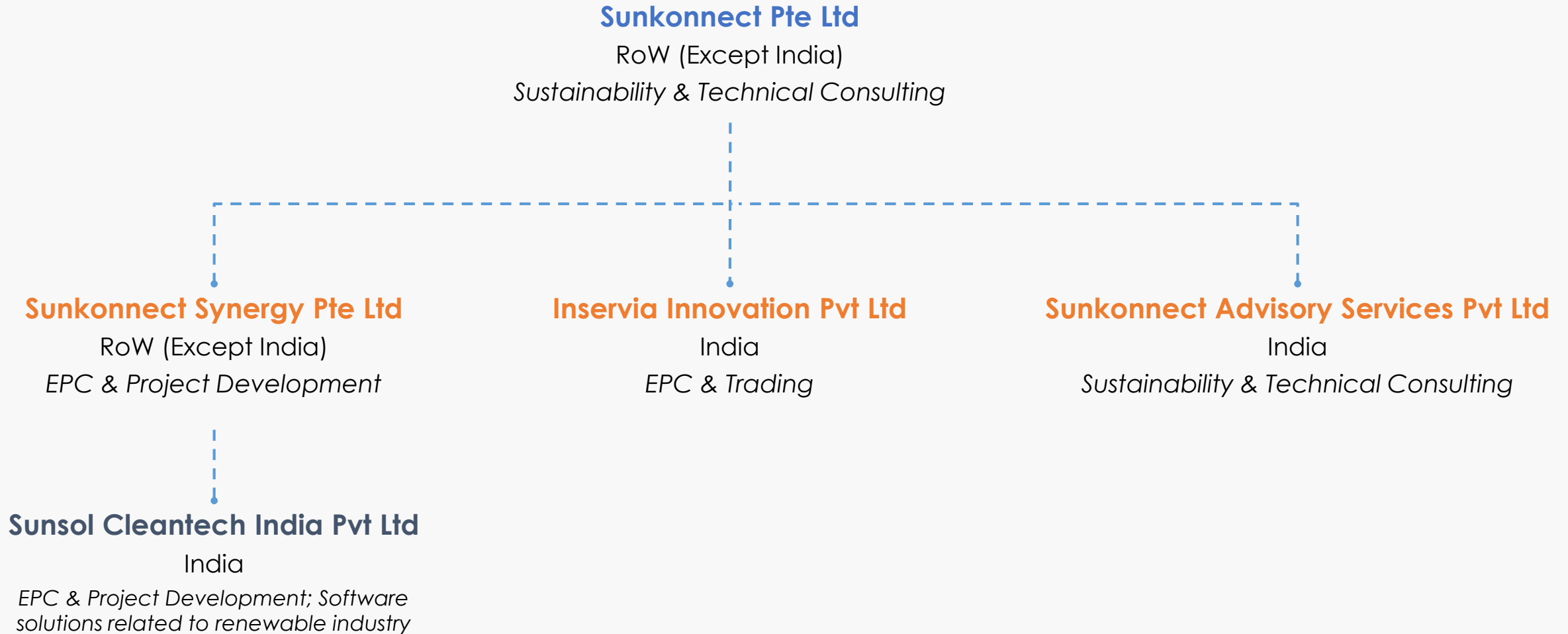
Rajat Samanta
VP International Market

Rajat has more than 12 years of experience in PV industries sales and business development sector.

Industries



Sunkonnect Group Introduction



Our Services



**Technical Audits &
Quality Inspection**

Inspection of the supply chain of renewable energy projects from a buyer's perspective to ensure you get exactly what you require - In the first sigma variance of the quality checks



Consultancy

Assisting in tech transfer
Getting efficient output of existing assets.
Long term techno-commercial forecast of revenue from proposed technical assets



**Engineering Design
& Development**

Optimized engineering design of assets . Balancing the costs of said benefits - as per local and international codes and standards.



**Carbon Audit &
Energy Transition**

Carbon Audit & Climate risk analysis
Carbon Offset Services
Energy Transition consultancy
Net Zero & RE 100 consultancy

Technical Audit & Quality Inspection

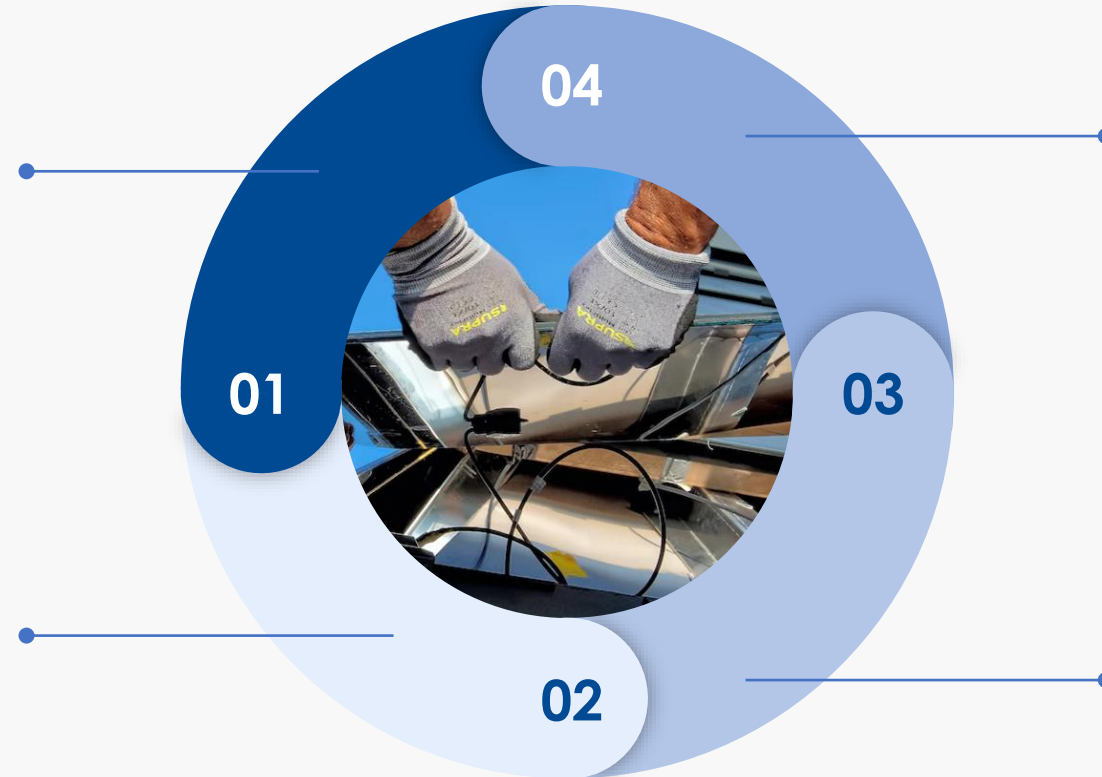


During Production Monitoring (DUPRO) (PSI) –

Monitoring of manufacturing process to ensure all set standard are adhered.

Supplier Factory Audit –

Proprietary score card based assessment of the capabilities of the manufacturer in line with your requirements



Others –

- Supply Chain 'Source of Origin' Audit
- Field / Construction Quality Audit
- Technical Audit and Due Diligence of Operational Plants and Assets

Field Construction Monitoring –

Ensuring the quality of execution is inline to the Quality Assurance Plan and Tech specs along with on-time and within resource delivery



Technical Specification Development

Assisting in development of feasible tech specs that ensure long term performance reliability

Project Management Consultancy

Project Work Definition, stakeholder communication planning, construction scheduling to ensure on-time and within resource delivery

Plant Lifecycle Management & Optimization

(including Process Optimization & Operational Excellence) – to maximize yield – by auditing and deploying iterative counter measures – also providing SOPs for preventive maintenance

Other

- Project Feasibility Studies
- Detailed Project Report
- New Product Design, Development & Testing / Technology Transfer

Engineering Design & Development



Front End Engineering Design (FEED)

Prebid Engineering & Yield Assessment –rapid high level assessment for understanding the initial techno-commercial viability of a project

Plant Detailed Design & Engineering

Preparation of Ready-for-construction drawings & technical documentation; OE Services

Engineering Permitting and QP Stamping

Getting approvals that are providing engineering document QP approval for US based Projects



Net Zero / Carbon Audits & Energy Transition



Carbon Audits & Climate Risk Analysis

Carbon Audit services to identify scope -1,2 & 3 emissions
Impact of Climate Change on long term business prospect

Net Zero, RE 100, Carbon Offset

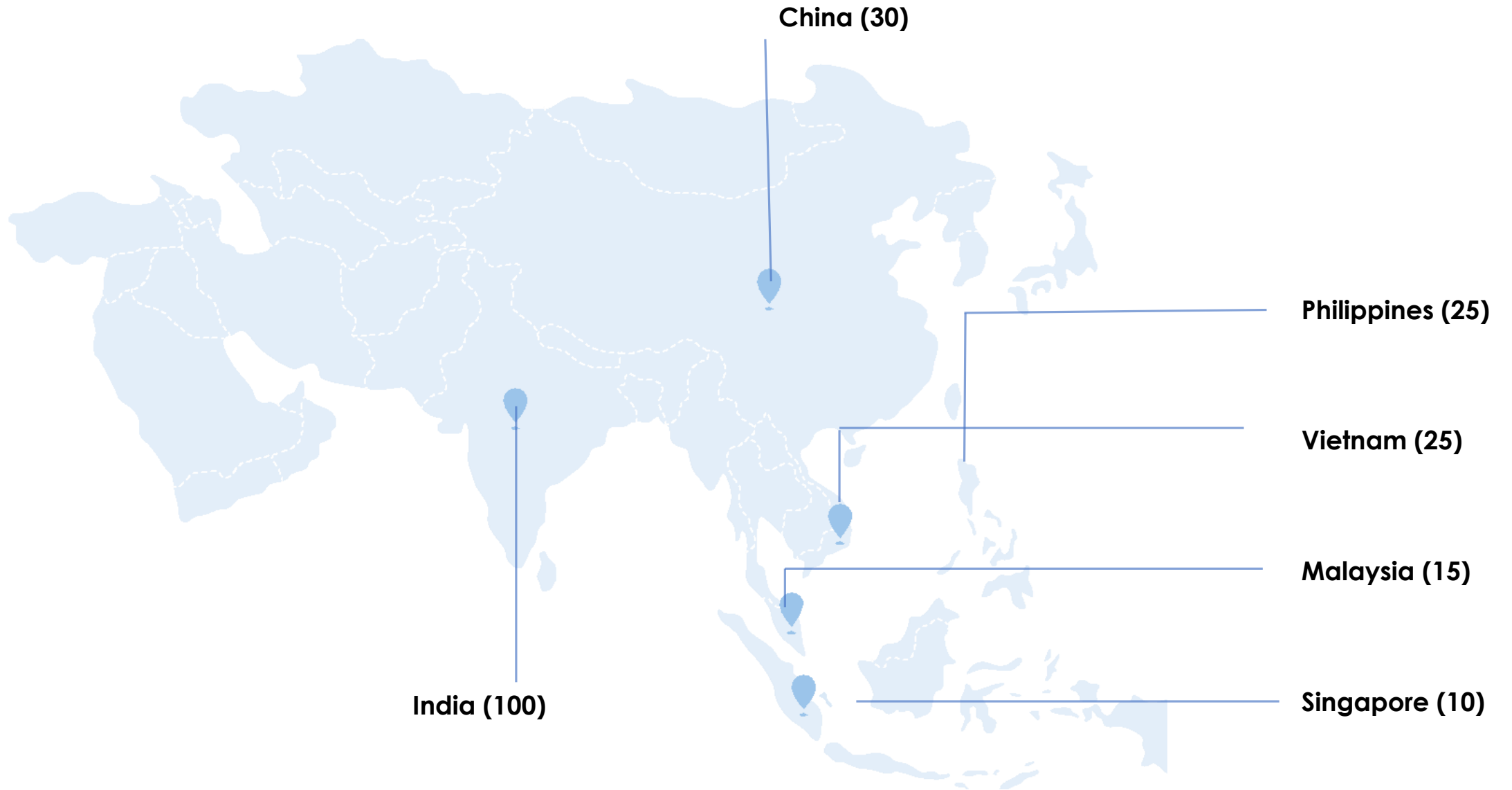
Net Zero & RE 100 Strategy & Planning
Carbon Offset services

Energy Transition

Energy Transition Consultancy



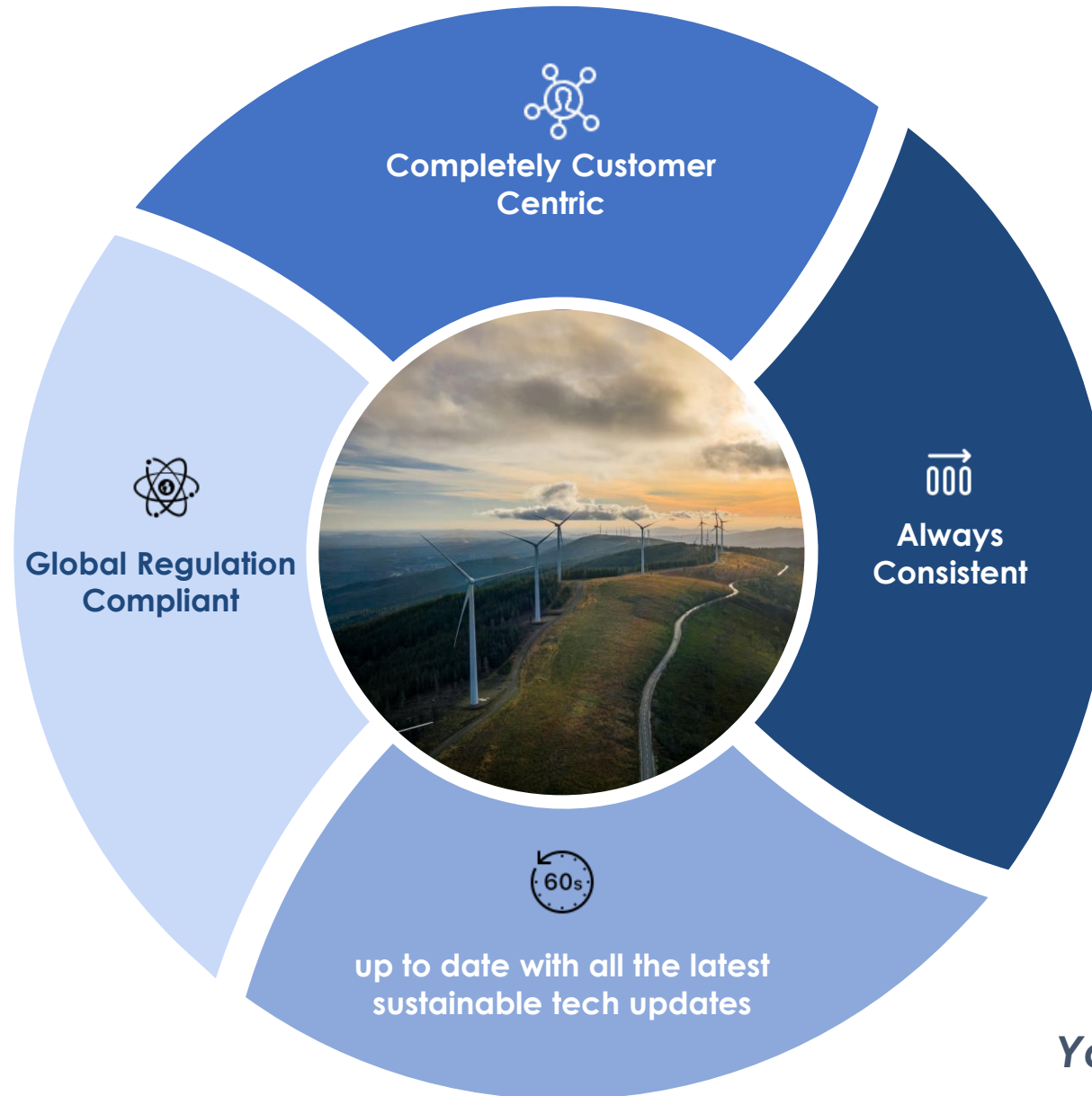
Global Presence



Notable Clients



We focus on



Your Partner in Sustainability

Sunkonnect Projects



S.No	Description	Client	Location	Year of Completion
01	100 MW - Pre-production factory audit, production oversight of glass-glass module, pre-shipment inspection, containerload tests and reliability assessment. 3rd party laboratory tests	ERS Sdn Bhd	China	2018
02	Complete Desion & Enoinerino of 15MWo Solar PV Proiect in MP.India	EDF	India	2017
03	100 MW - Supervision of erection and commissioning of solar power plant	McNally Bharat Enoinerino Co Ltd	India	2019
04	62 MW - Pre-production factory audit	CentralHydropower Joint Stock Company	China	2018
05	2MW - Design & Engineering of Floating Solar PV Plant	Arcedo Systems (PES Enoiners)	India	2018
06	Module Manufacturing quality Improvement	Tata Power Solar Svstems Limited	India	2019
07	45 MW - Production factory audi production oversight,pre-shipment inspection,pre-production testing, pre-shipment reliability assessment,module inspection at installation site, 3rd partylaboratory tests, Svstem Consulting	TNB Engineering Corporation Sdn Bhd	China	2019
08	48 MW - Production factory audi production oversight,pre-shipment inspection,pre-production testing, pre-shipment reliability assessment,module inspection at installation site, 3rd party laboratory tests, Svstem design and Consulting	ERS Sdn Bhd	China	2020

Sunkonnect Projects



S.No	Description	Client	Location	Year of Completion
09	200kW Rooftop Solar PV Plant Development	ODM School	India	2019
10	Production factory audit module inspection	Azure Power Pvt Ltd	India	2020
11	Production factory audit module inspection	Azure Power Pvt Ltd	India	2020
12	24.7 MW - Design & Engineering of Floating Solar PV Plant	Arcedo Systems (EDAC Engineering)	India	2020
13	Module Frame Analysis	Renew Power	Singapore	2021
14	Engineering & Design of 1.2MW Solar PV Plant in Gujarat	IB Vogt Solar India Pvt Ltd	India	2021
15	Techno Commercial Feasibility of Solar PV Project	Toll Group	Singapore	2021
16	Module Mounting Structure design & analysis	Navsar International	India	2021
17	Yield Assessment of Solar PV project	Navsar International	India	2021
18	105 MW - Production factory audit, production oversight, pre-shipment inspection, pre-production testing, pre-shipment reliability assessment	ERS Sdn Bhd	China	2021
19	Solar Asset Management for SMW Solar PV Plant	APCA Power	India	Ongoing

Sunkonnect Projects



S.No	Description	Client	Location	Year of Completion
20	Frame Contract wh ACME for Module Ins<><>ction and Module/ Cell Factory Audit in China	ACME	India	Ongoing
21	Module Field I-V Test at Faridabad site	Servome	India	Completed
22	Inspection for BOSitem in Pan India	Junioer	India	Ongoing
23	Vettina of module test reorts and auality verification/ insoection at site	JuninPr	India	Completed
24	OAP & Technical Specification preparation/ Technical Negotiation with various suppliers in China for solar cell	Amplus Solar	China	Ongoing
25	Inspection for BOSitem in PAN India	Amolus Solar	India	Ongoing
26	PV Module Factory Audit in India (for Five Suooliers)	Amnlus Solar	India	Ongoing
27	PV Module ins<><>ction in India for 500MW.	Amnlus Solar	India	Ongoing
28	Cell Factory Aud at China for various suooliers	Amolus Solar	China	Ongoing
29	Solar Cell inspection at China for 250MW	Amnlus Solar	China	Ongoing

Service Name: Audit of Li ion battery manufacturing

Projects Performed: 01

Gujarat, India

Plant detail: 1.5GW

Client Name: Major Energy conglomerate

Sunkonekt deployed a team of Engineers & Scientists to work with client to develop Li ion cells and battery along with BMS suitable for Indian climate. The batteries shall be used for mobility as well as energy storage applications. We are working on this project by setting up a R&D line in Singapore for Li ion cells and a pilot battery assembly line in India ultimately leading to an in house battery manufacturing capacity of 1.5GW.

Case Studies



Service Name: PV Module manufacturing
Projects Performed: 02
Bangalore, India
Plant detail: 250MW
Client Name: Major Energy conglomerate

Sunkonnect deployed a team of Engineers & Scientists to work with client in order to develop new PV products in line to the industry standard by studying the existing BoM for solar PV modules and suggesting changes based on experimental data. Team successfully introduced new BoM for the modules and improved the performance of existing product line.

Sunkonnect was also appointed to improve the Cell to Module losses for the line. With the extensive experience in Module manufacturing Sunkonnect team was able to bring the cell to module loosed at par with the global industry giants. The projects were completed well before time.





Service Name: PV Module at Plant

Projects Performed: 03

Malaysia

Plant detail: RCA for module rear glass crack

Client Name: Major Renewable Energy Developer

Sunkonnect deployed a team of Engineers having expertise in PV Modules fabrication and Production conduct RCA for the rear glass cracks in the bifacial modules of global major supplier. The team along with manufacturer camped at site to perform various simulations, inspections and tests to collect the data of the affected modules. The data was studied a report was published for client and manufacture. The counter measures was proposed to prevent such failures in future to both client and manufacturer.

Case Studies



Client: Plant Audit

Projects Performed: 01

Bikaner, Rajasthan (INDIA)

Plant detail: 1.5 MWp Solar PV plant

Client Name: Major Developer based out of India

Sunkonnect deployed a team of Engineers for assessment of an Operational Solar PV Plant health, The idea was to study the plant to identify the status of current performance, areas for improvement to improve yield and Plant uptime and provide expertise to implement the recommendations. Team camped at site for a few days, conducted tests and analysis on the data and worked with client team to implement the changes. We managed to reduce the unscheduled downtime of the plant by 75% and improve the yield by 10%.

Service Name: Asset Management
Projects Performed: 01
Rajkot, Gujrat (INDIA)
Plant detail: 5 MWp Solar PV plant
Client Name: Major Developer based out of India

Sunkonnnect deployed a team of Engineers for Asset Management of an Operational Solar PV Plant, The idea was to study the plant to identify the status of current performance, areas for improvement to improve yield and Plant uptime and provide expertise to implement the recommendations. We managed to reduce the unscheduled downtime of the plant completely and improve the yield by 3%. We also implemented SOPs for Preventive and corrective maintenance to enable the site team operate the plant at optimum.

Case Studies



Client: BOS Inspection - Expediting

Projects Performed: 01

Malkapur, Maharashtra

Plant detail: 70 MW Solar Power Project

Client Name: Juniper Green Field

Sunkonnect deployed a team of Engineers having expertise in the Mechanical Structures at Structure Manufacturing Facility for expediting the production of material as per the technical and Quality criteria of the client. The team managed to successfully completed the Assignment well before material delivery date excelling at all technical and quality parameters.

Case Studies



Service Name: BOS Inspection - Factory Acceptance Test & Pre Shipment Inspection

Projects Performed: 02

Nepal

Plant detail: Dhalkebar - Loharpatti 132 KV Transmission Line Project

Client Name: Jakson Ltd.

Sunkonnect deployed a team of Engineers having expertise in the Mechanical Structures at Structure Manufacturing Facility for The Pre Shipment Technical and Quality Inspection of the material. The team identified various materials with defects leading to rejection of a lot and the remaining material was cleared for dispatch. An RCA was conducted for the defected material and the suggestions was provided to manufacturer for improvement.

Case Studies



Client: BOS Inspection - Root Cause Analysis

Projects Performed: 02

Assam, India

Plant detail: 70 MW / 92 MWp Solar PV Plant,

Client Name: Jakson Power

Sunkonnect deployed a team of Engineers having expertise in the Transformer Design and Production to conduct RCA for the failure of a 6.25MVA Inverter Duty Transformer. Team along with manufacturer performed detailed tests and studies on the transformer leading to the identification of cause for failure. A detailed report was provided to manufacturer as well as client to improve on design and manufacturing of such transformers.



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