

Offering
Sustainable Advice
Established in the year of 2018

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About Sustiknow

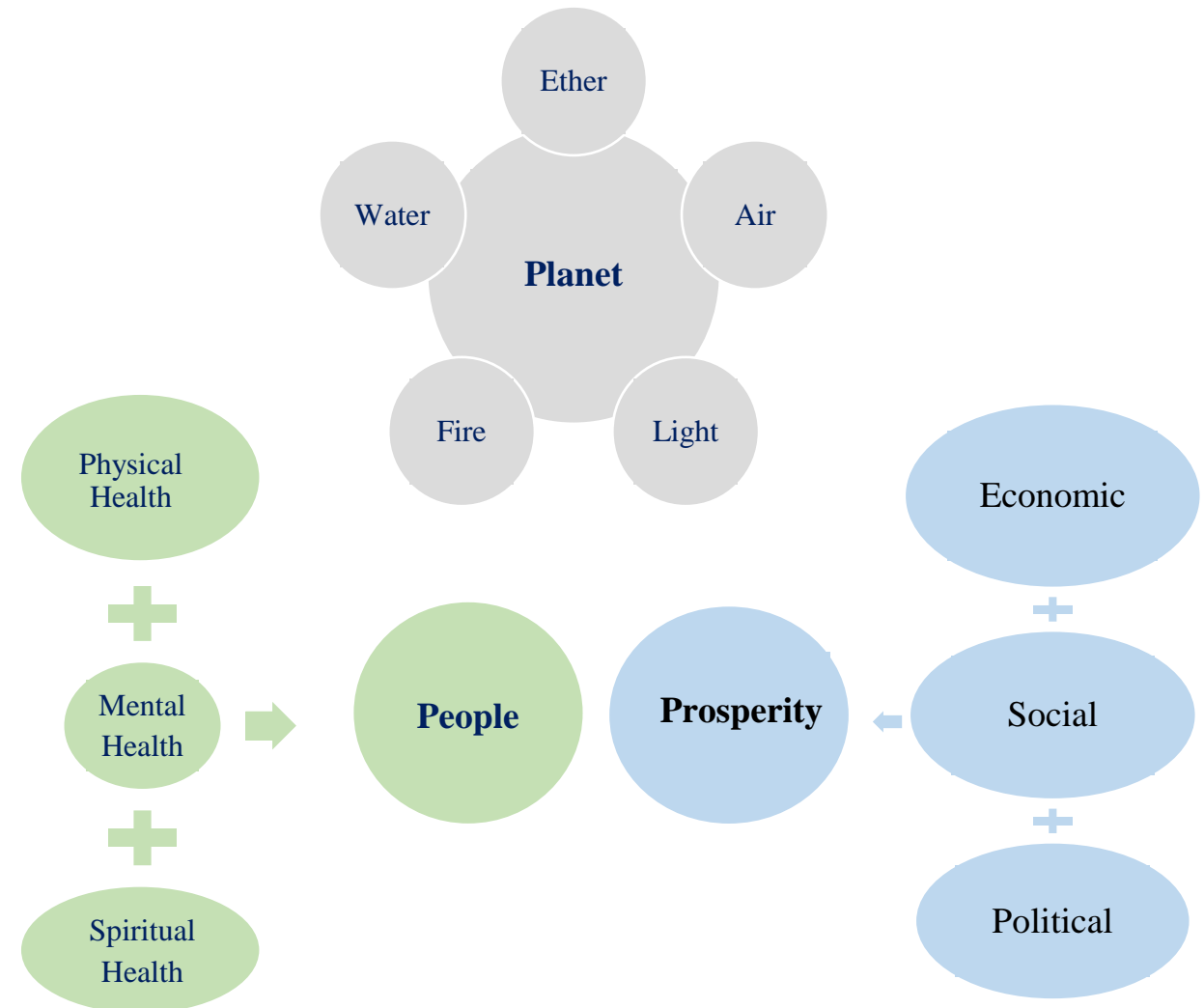
Fundamental Frame Work : Strategic, Economic, Financial and Technical Environmental Advisory Solutions

Method of Advisory Engagement

- Assignment of assessment and Economic Feasibility, Technical Feasibility, Research Finding and Strategic Decisions on Sustainable Actions
- Capacity Building
- Participation and Subscription on Platform

Focus Area

- SDG – Sustainable Development Goals
- Sustainable Actions
- ESG – Environment, Society and Governance



Activities and Alignment with SDG

Role and Approach of Offerings by Sustiknow

1	Sustainable Education	1	Goal 04 – Quality Education	Identification of challenges
2	Sustainable Living	2	Goal 08 – Decent Work and Economic Growth Goal 09 – Industry, Innovation, and Infrastructure Goal 13 – Climate Action	Knowing the reasons for challenges
3	Sustainable Energy		Goal 01 – No Poverty Goal 03 – Good Health and Wellbeing Goal 05 – Gender Equality	Articulation the challenges: Ideation
4	Sustainable Habitation	3	Goal 10 – Reduced Inequalities Goal 12 – Responsible Consumption and Production Goal 13 – Climate Action	Formulation challenges – Data Analytics
5	Sustainable Farming	4	Goal 07 – Affordable and Clean Energy Goal 13 – Climate Action	Publication – On issues and solutions
6	Sustainable Water	5	Goal 16 – Peace, Justice and Strong Institutions	Academic Acceptance: Conferences
7	Sustainable Law & Justice	6	Goal 11 – Sustainable Cities and Communities Goal 13 – Climate Action Goal 15 – Life on Land	Adaptation: Strategies
8	Sustainable Entrepreneurship	7	Goal 02 – Zero Hunger Goal 13 – Climate Action Goal 06 – Clean Water and Sanitation	Support and Advice: Plan and Budget
9	Sustainable Intelligence	8	Goal 13 – Climate Action Goal 14 – Life Below Water	Economic Benefit : Implementation
10	Sustainable Entertainment	9	Goal 17 – Partnerships for the Goals	Proliferations
11	Sustainable Peace	10	Additional action area	
		11	Goal 16 – Peace, Justice and Strong Institutions	

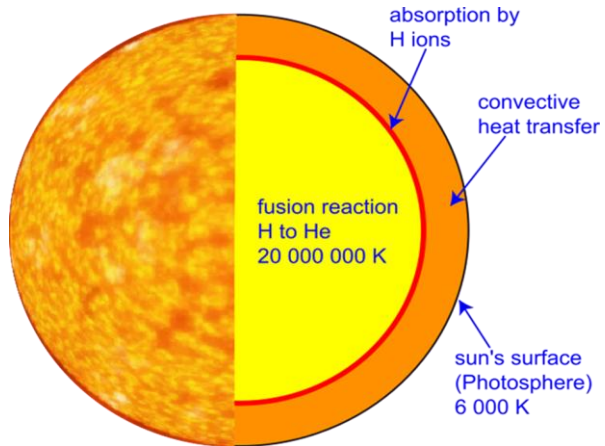
Developed Practices and Offered Services

- Deep Training on Solar Project Development for Professional
- Assessment, Economic Feasibility, Research Report, Advice on Energy Sourcing/Trade and Strategic Energy Decisions
- Delivered Sustainable Kitchen Solution a road map to transition from High Carbon to Low Carbon on cooking
- Developed Dashboard on Energy and Air Analytics for Enterprise Solutions
- Developed Advisory Practice on Sustainable Farming on Investment Support to Farming, Valuation on Produce and Rating Farmers.
- Developed Flood Water Control Solutions
- Developed Livelihood program through Developing Micro Economic Centre
- Developed Valuation Solution on Sustainable Habitation



Sustainable Education: Deep Training on Solar Energy

Analytics on Solar Resources



Modelling

The screenshot shows a financial analysis spreadsheet for a solar power project. The spreadsheet includes various financial metrics and assumptions, such as project size, capacity, cost, and financial ratios. The data is organized into columns and rows, with some cells highlighted in green.

	A	B	C	D	E	F	G	H	I	J
1										
2	Capitalization									
3	If Capex Put 1 otherwise put 2	2								
4	Solar Plant Size	1000.0 MW								
5	Share of the project	100%								
6	Project Capacity	1000								
7	Project Life	25 Years								
8	Project Cost	35463884 \$			5.3					
9	The project will be done on loan, if yes put 1, other wise put									
10	Loan	0.6								
11	Equity	0.4								
12	Loan amount	21279530								
13	Equity Amount	14184353								
14	Loan duration	10 Years								
15	Interest Rate	8.00%								
16	Equity Expectation	0								
17	O & M cost as % of investment for 1st year	0.50%								
18	O & M cost escalation	6% Yearly								
19	Discount rate of money	10%								
20	Loss in first year (Depreciation)	0.03								
21	Loss in every year after first year	0.02								
22	If accelerated depreciation is taken put 1, otherwise put 0	0								
23	Accelerated Depreciation rate	0.4								
24	O & M Included in the cost for	5 Years								

Design of Solar Plant:

This training aims to provide hands on training on designing a power plant from rooftop to utility sector, which includes the following:

- Feasibility study
- Design layout
- Interconnection with grid
- Economic viability of the project

Forecasting

This training aims to equip the learner with latest technologies and methods of forecasting procedures required in the operation of a solar power plant:

- Utilize LSTM networks for time series forecasting of solar power generation.
- Nowcasting and Intra-day Forecasting for immediate predictions

Benefits of Training

- Enhanced Technical Knowledge
- Increase operational efficiency and cost reduction
- Innovation & Development and Career Enhancement
- Sustainability Impact and Networking Opportunities

Sustainable Energy: Energy Analytics

Strategic Energy Planning

Preparation of Detailed Project Report

Energy Transition

Detailed Design and Development

Assessment of Market and Energy Research

Policy Support and Policy Framework

Tariff Analysis

Technology Analysis

Energy Analytics

Dash Board to Measure and Take Actions

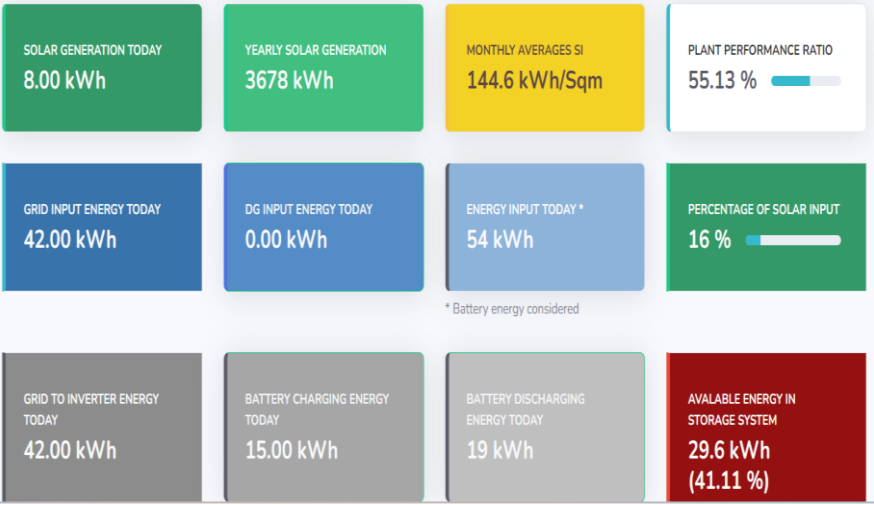
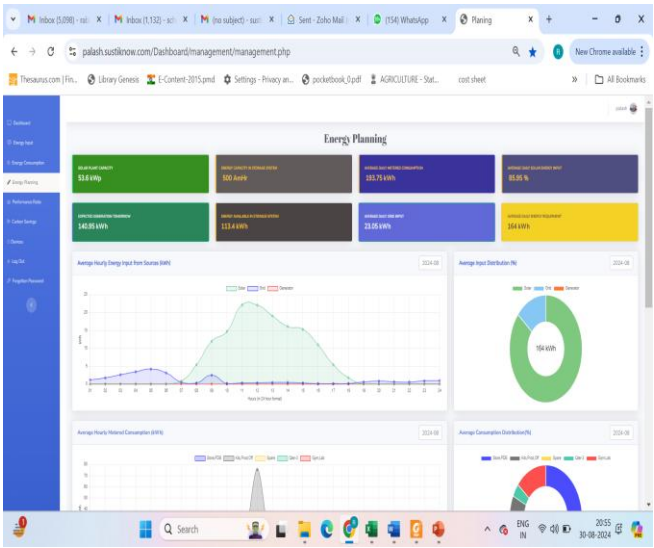
Energy Management

Corporates, Institutions – Energy Conservations,
Energy Trade, Energy as a tool for Revenue

Energy For
People –
Energy
Independence
Conducive
Tariff

Energy For Planet – An
Environmental
Consideration – Low
Carbon

Energy For Prosperity –
Technology Innovation –
Energy for Development



Dash Board

Kitchen Transitions – Reduce your cooking expenses



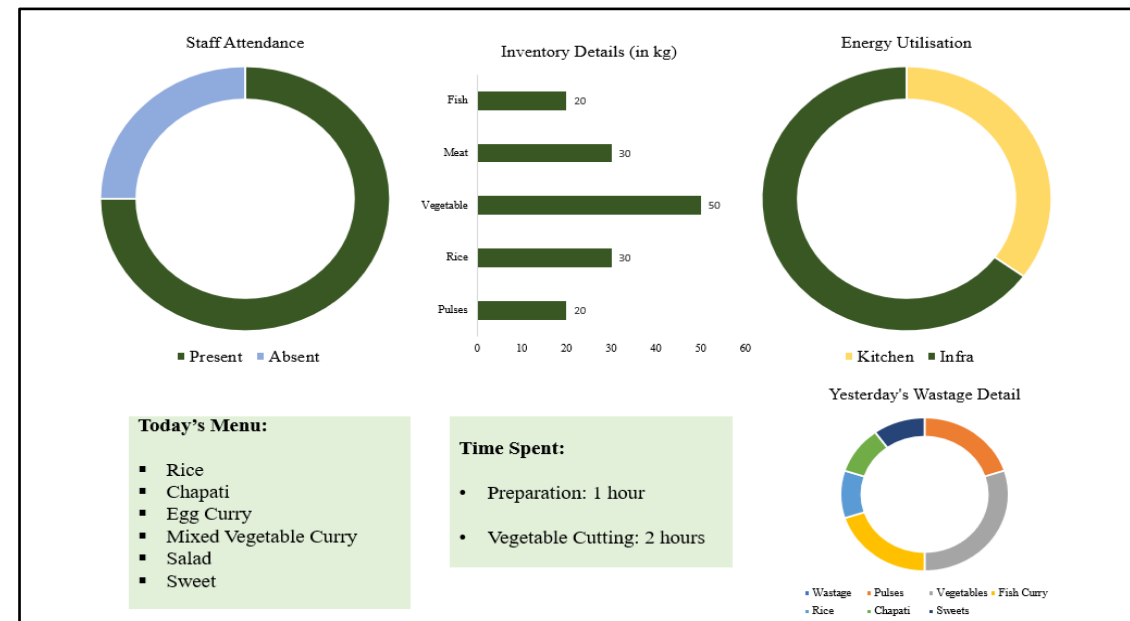
Intervention

- Use of Direct Solar Energy for Pre-Heating
- Use of PV powered Energy for Electricity
- Use of PV power Boiler for Steaming
- Use of Layout Management for minimum movement of cooking personnel and reduce cooking time.

Advantages of Sustainable Kitchen

- ✓ Less energy consumption
- ✓ Hygienic food
- ✓ Less time consuming
- ✓ Low cost
- ✓ Less manpower

Kitchen Dashboard



Air Quality Improvement and Mitigation

Air Quality Management

- Reporting through Dash Board
- Designing the Mitigation Solution
- Improvement of the Indoor Air Quality

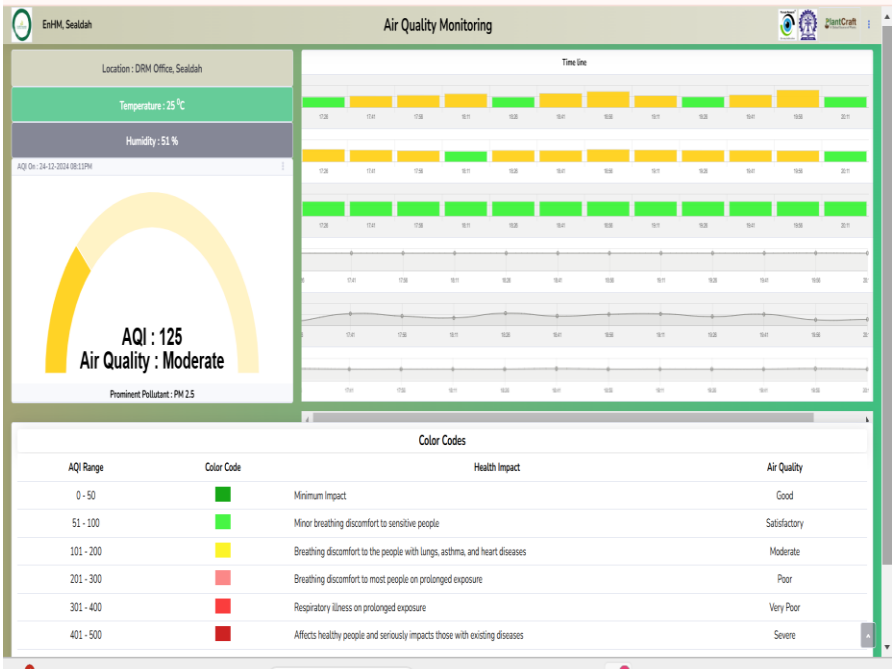
Features

- High quality sensors
- Intelligent Device
- WiFi enabled
- Smart Dashboard
- Rechargeable Battery
- Warranty

Measured parameters

- PM2.5, PM10
- NO_x, SO_x, CO_x
- O₂, NH₃
- Humidity and Temp.

Name of Trees	CO2 Reduction Potential
Bird's Nest Fern – Asplenium Nidus	0.047 ppm/m^3 per pot per day
Snake Plant – Sansevieria Trifasciata	0.49 ppm/m^3 per pot per day
Dumb Cane - Dieffenbachia	0.057 ppm/m^3 per pot per day
Anthurium – Anthurium Andraenum	0.005 ppm/m^3 per pot per day
Arrowhead Plant – Syngonium podophyllum	0.005 ppm/m^3 per pot per day



Flood Water Control

- Flood water can be managed by implementing an appropriate solution at the flood prone areas
- Flood Can be controlled in case of a spill over.
- Use of Solar Energy as a prime source with redundancy arrangement
- Large to Small sizing can be customized
- Hydrology Assessment is a mandatory steps

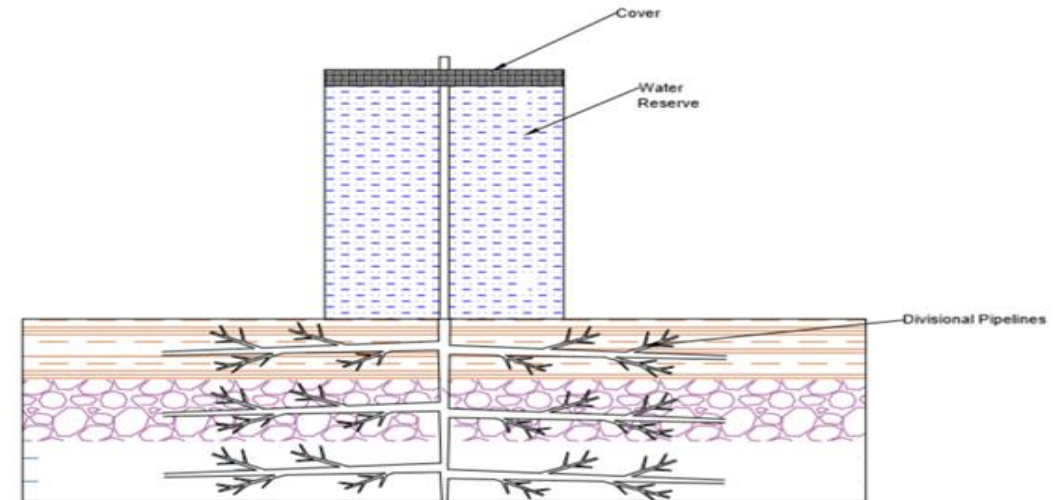
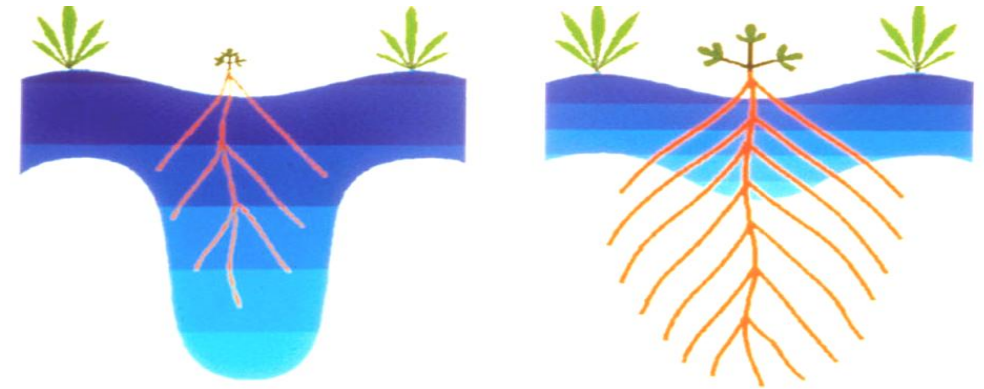
Solution Offered

Assessment: Sustiknow Assessment Advisory or Appropriateness of the solution

Economic Feasibility: It offers economic feasibility, benefits and project lifecycle analysis

Designing and Intervention: Sustiknow offers complete comprehensive designing of the solution

Root Distribution Theory of a Tree



Water for Justice

- Water Connectivity
- International and National Treaty on River Water
- Aquifers Level Maintaining and Replenishment Mechanism

Work Executed

Designed Largest Solar Water Pump Project in Mizoram

Water Harnessing from 700 M depth

Supplying water to 1200 People

Three Stages 75 kWp Solar Pumps to supply Water

Water for People

- Water Sourcing
- Water Conservation
- Water Distribution

Solution Offered

Analytics

Policy support: Techno Economic Analysis

Assessment Activities

Research on access to water and water perseveration

Other relevant advisory endeavour

Water for Prosperity

- Water Economics
- Water Finance
- Water Analytics



Water for Justice



Water for People



Water for Prosperity

Development of Micro Economic Centre



Main Features

- Women Centric Livelihood creation
- 120 Days Work for Rural Women
- 100% women to be involved in a villages

The Livelihood Program-Based on Micro Economic Centre (MEC) aims to empower rural women by creating sustainable livelihood opportunities. The center will be owned and managed by women, providing flexible, seasonal employment through activities like stitching, butter production, and cold-pressed oil manufacturing.

1

Women Empowerment

Through village-owned,
solar-powered economic
centers

2

Sustainable Livelihoods

Create replicable & scalable
models with govt. initiatives
(SRLM)

3

Promote Clean Energy

Utilize solar power for
sustainable operations

4

Economic Resilience

leveraging seasonal
and variable
economic activities

5

Strengthen Communities

Mobilize SHGs for
collective economic
growth

A Few Experiences

For NEEPCO



Detailed Project Report of 52 MWp
Floating Solar on behalf of NTPC, School
of Business

For IFC Project



Solar PV Market size estimation of MSMEs in
Bihar and Uttar Pradesh

For NPTI, Faridabad



Detailed Project Report of
CoE for Hydro Power
Infrastructure on Behalf of
NSB.

For NVR PANACEA



Detailed Project Report on
Vehicle Scrapping Centre

For Gangwal Engineering



Detailed Design of 3
Stages Solar Pump
Driven Water Supply at
Mizoram – from 700 M
River Bed

A Few More Experiences...



For UNDP

Assessment of Solar Energy Feasibility at 100 numbers of Solar Cold Storage and 200 numbers of PHE , Nagaland



For World Bank Project

Carried out feasibility study of solar plant on behalf of TUV for World Bank at DVC, Chandrapura and Rourkela



For Palash blossom

Implementation of Sustainable actions at Eco – Tourism by Solar Drier and Solar Plant



For Bangladesh Rural Electricity Board

Deep Training on Solar Rooftop and Mini Grid



For Ramkrishna Mission (Hatamuniguda)

Renovated and Modernized existing Kitchen with Steam Cooking arrangement etc. as a sustainable measure.

A Few List of Clients



SunCraft Energy

We Deliver Beautiful Energy



Team



Rabin Roy
CEO and Founder
B.Tech, and MBA (IIT KGP)
Experience: More than 20 years



Avijit Jana
Director
B.E (JU), M.Tech (ISI), MBA (IIT KGP)
Experience: More than 25 years



Jyotirindu Chatterjee
Director
B.E (JU)
Experience: More than 25 years



Sarnali Roy
BD Consultant (Sustainable Actions)
M.Sc. Anthropology (Calcutta University)
Experience: 4 years



Poushali Ghosh Das
Admin and HR Manager
M.B.A
Experience: 7 years



Debarup Bhattacharya
Business Development Manager
PGDM (MDI-M)
Experience: 4 years



Anjan Ghosh
Director
B.Tech (IIT KGP), MBA (XLRI)
Experience : About 40 years



Debashish Mukhopadhyay
Director
B.E (Electrical) – JU
Experience: About 50 years

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Thank you