



CORPORATE CREDENTIALS

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FIRST GREEN CONSULTING

Firstgreen is one of India's premier consulting firm providing services in the area of renewable energy and energy efficiency. We have provided our services to more than 250 MW of solar power projects on pan India Basis. We offer a wide range of services to our client's right starting from project conceptualization to post commissioning performance assessment. Some of our prestigious clients are BPCL, IOCL, SECI, DLF, Lanco, Mobinil, JK group, Today Group, IL&FS, Moserbaer, India Habitat centre, Ostro energy, and many more. We have team of highly qualified and experienced engineering and MBAs which is proficient to execute the solar project. .

OUR SERVICES

As we states, we provide diversified services to our solar clients, we would like to share typical services list of FirstGreen.

- Bid/ Bid process advisory
- Feasibility and Detailed Project Report preparation
- Project Financing Services
- Project Management consulting
- Detailed Engineering Design
- Project quality inspection
- Plant performance audit services
- Lender's engineer
- Strategy & Policy Advisory
- Techno-commercial due diligence
- Transaction Advisory Services

BID/ BID PROCESS ADVISORY

One side we assist our clients to participate in JNNSM or state level bids and other side we also advise companies to perform the bidding. Typically, this service includes business modal preparation, project budgeting, bid documentation, financial modelling and bid evaluation. Our team work closely with the management and understand their needs and strengths. On the basis of our analysis we propose the best solutions.

FEASIBILITY AND DETAILED PROJECT REPORT PREPARATION

Typical scope of report is site assessment for solar radiation resource and meteorology, solar PV technology assessment and evaluation, annual yield estimation, tentative SPV plant layout, overall System description, power evacuation arrangements and single line diagram (SLD), Clearances and permits, Financial analysis, Bill of Quantity (BOQ) and Risk Assessment.

PROJECT FINANCING SERVICES

Our deep market understanding helps us to offer multiple options and various financing structures to the clients. Our team has extensive experience in earning financing to the projects and we have close relationship with private equity funds, individual investors, domestic banks, domestic banks, domestic financial institutions and various infrastructure financing companies. We have worked with financing institutions such as IREDA, PFA, and REC to organise finance to our clients.

PROJECT MANAGEMENT CONSULTANCY

Project Management consulting services also known as Turnkey project consultancy. The scope of work

starts right from the inception stage of the project and goes upto the post commission performance test. Major activities in this are selection of suitable land, equipment, EPC partner, negotiation with all the vendors (equipment- EPC), quality inspection during installation work, post commissioning performance assessment, documentation, and support in debt arrangement.

DETAIL ENGINEERING & DESIGN

Firstgreen support its clients during the every phase of installations through equipment selection, energy yield analysis, grid interconnection studies, approvals and permits, design briefs, and construction phase engineering. Our focus is on the large rooftop and utility scale projects which require some complex engineering analysis for your solar project. Our in-house team has professional engineers from civil, mechanical, electrical, and instrumentation background which have tackled various solar projects. Our services for detailed engineering & design including the following: Plant layout & design Solar PV system sizing Module & inverter selection Shadow analysis DC cable route planning Monitoring & control system design AC system design Plant storm water planning Power evacuation planning -

PROJECT QUALITY INSPECTION

Solar is modular in nature and small defect during implementation can lead to a massive mess. This will reduce the generation-the only commodity which can be monetized. Hence, we deployed our specialized team at the site during implementation phase to point eagle eye on every activity and ensure the implementation is as per approved designed.

PLANT PERFORMANCE AUDIT SERVICES

Our solar plant performance audit services assist the project developers as an independent owner's engineer and lender's engineering services for the power project installations. We have conducted several solar plant audits and have done the root cause analysis during the operational phase of solar projects. Our clients call us to validate the plant performance independently and seek our help to identify and resolve issues when underperformance is suspected.

LENDER'S ENGINEER

Our deep knowledge helps us to provide the lender's engineering services to our clients. In the services we review all the documents related to the project planning, business development, DPR, site irradiation data, PPA, feasibility of project financing, covering compliance / readiness status, reasonableness of the cost incurred, adequacy of the insurance.

STRATEGY & POLICY ADVISORY

Firstgreen has in depth knowledge of renewable energy policy and regulations. Our team members are actively working as policy adviser in various working groups of MNRE. We have advised various private organization, government institutions and banks on policy and regulatory aspects of renewable and energy efficiency technologies. We help our clients in developing their business plans and technology road-map. Our policy advisory helps the clients in achieving profitability of their renewable energy and energy efficiency investments.

TECHNO-COMMERCIAL DUE DILIGENCE

Firstgreen has expertise for carry out techno-commercial due diligence for better decision making on solar PV investment. We identify various technical, policies, regulatory, operational risk associated with the solar projects and ensure high financial return on solar PV investments. We provide techno commercial due diligence services for private equity investor's & Lender's.

TRANSACTION ADVISORY SERVICES

Firstgreen helps the solar project developer in sale and purchase of their solar assets. Once getting a clear mandate from the buyer or seller side, our team work closely with the clients throughout the transaction process. Firstgreen prepares the

information memorandum (IM) which serves as a base document throughout the transaction process and this document is shared with the potential clients and negotiation takes place on the basis of the base document prepared in the form of IM.

THIRD PARTY INSPECTION

Firstgreen provides the third party inspection services to the clients. In this, we do the examination of project location, assessment of solar radiation data, energy yield, various losses, power evacuation infrastructure, System sizing, layout planning. besides this, assessment of major components and systems with regard to their suitability and adequacy to perform with respect to project capacity, review and comment on the selection and design of the equipment with respect to their effect on the anticipated service life of the plant.

KEY PROJECTS

PMC FOR 4 MW CAPTIVE SOLAR POWER PROJECT AT BINA REFINERY BY BPCL

Site assessment, environment impact assessment, social impact study, Tender document preparation, EPC selection, Project Justification & Feasibility assessment, Site assessment and preliminary shadow analysis, Solar Radiation Resource Assessment, Technology Selection and feasibility of selected technology at the given site. Basic engineering, Assessment of power evacuation, metering, monitoring & Control Systems, Applicability of Codes and Standards, Project Equipment Specifications, Requirements for Plant Operation and Maintenance, Project Cost analysis and economic viability, Financial Analysis, Risk Factors and Management Perception, PVsyst yield assessment.

11 MW SOLAR CAPTIVE POWER PROJECT BY JK TYRE AT JK TYRE

JK Tyre is implementing a 11 MW captive solar power project in their factory campus at Kankroli Rajasthan. Firstgreen Consulting is appointed as PMC consultant for this assignment. Major services rendered to the client include the site assessment, environment impact assessment study, bid process advisory, EPC tendering, EPC selection, tender document preparation, basic engineering, Review engineering, project quality assurance, project monitoring, scheduling, commissioning, assessment of carbon credit benefits, estimation of GHG reduction and its valuation, etc.

10 MW CAPTIVE SOLAR POWER PROJECT OF SECI

Project Justification & Feasibility assessment, Site assessment, EIA study, social impact assessment, and preliminary shadow analysis, Solar Radiation

Resource Assessment, Assessment of Power Sale Arrangement, Technology Selection and feasibility of selected technology at the given site.

Selection of Balance of System, Assessment of power evacuation, metering, monitoring & Control Systems, Applicability of Codes and Standards, Project Equipment Specifications, Requirements for Plant Operation and Maintenance, Project Cost analysis and economic viability, Financial Analysis, Risk Factors and Management Perception, PVsyst yield assessment

SOLAR BID ADVISORY SERVICES TO EXPRESS PROCON PVT LTD FOR 20 MW SOLAR POWER PROJECT

Express Procon Energy is exploring investment opportunities in solar projects and appointed FirstGreen as bid advisory consultant. Firstgreen conducted financial modeling, and assessed the bid price through its own market research methodology. We also prepared all the documents required for the bid submission and subsequently submit the bids.

SOLAR BID ADVISORY SERVICES TO OSTRO ENERGY

Ostro energy is exploring investment opportunities in solar projects and appointed FirstGreen as bid advisory consultant. Firstgreen conducted financial modeling, and assessed the bid price through pre bid tie ups with the EPC company for project execution. We also prepared all the documents required for the bid submission and subsequently submit the bids.

PMC FOR 70 MW SOLAR PROJECT OF TODAY ENERGY

Today Homes & Infrastructure Pvt. Ltd is in the process of implementation of 70 MW solar projects in the state of Karnataka. Firstgreen Consulting was appointed as project management consultant. The brief scope of work included the bid advisory, detailed engineering and design, and project management services.

PMC for 50 MW solar project of Today Energy at Punjab

Today Energy is in the process of implementation of 50 MW solar projects in the state of Punjab. Firstgreen Consulting was appointed as project management consultant. The brief scope of work review engineering, DPR preparation, and project management services.

PMC FOR 6 MW, RAJASTHAN - JK LAKSHMI CEMENT LIMITED;

JK Lakshmi Cements has installed a 6 MW solar project in the state of Rajasthan at Baap, Jodhpur District. Firstgreen Consulting was appointed as the project management consultant. The scope of work included the solar resource assessment, techno-economic feasibility, site evaluation, power off-take study, regulatory compliance and environmental stipulations, modules and BoS (Balance of Systems), selection of vendors, review project progress, reasonableness of the cost incurred, contracts for evacuation facilities, O&M arrangements and agreement.

DETAILED ENGINEERING AND DESIGN FOR 30 MW SOLAR POWER PROJECT OF KP ENERGY GROUP GUJARAT

KP Energy Group is in the process of developing a 30 MW solar power project in the state of Gujarat.

Firstgreen Consulting has been appointed as the project management consultant. In the project, Firstgreen give his consultancy services for detailed engineering and design, planning for the array layouts, solar PV system sizing, AC and DC system design, Cost optimisation, solar resource assessment, techno-economic feasibility, site evaluation, power off-take study, regulatory compliance and environmental stipulations, modules and BoS (Balance of Systems). Drafting RFP, EPC / non EPC / package contracts and selection of vendors, Review project progress, covering compliance / readiness status, reasonableness of the cost incurred, adequacy of the insurance contracts, contracts for evacuation facilities, associated facilities, reasonability of the contract prices, O&M arrangements and agreement

DETAILED ENGINEERING AND DESIGN (CIVIL) FOR 50 MW SOLAR POWER PROJECT OF LANCO POWER

Detailed engineering and design (Civil), planning for the array layouts, Inverter room design, storm water planning, roads design, contour layouts, Control room design, foundation design etc.

DESIGN, ENGINEERING OF SOLAR POWERED BUS SHELTER FOR IREO GROUP

Ireo group is in the process of developing solar powered bus shelters at various locations in its campus in Gurgaon. Firstgreen has provided design, engineering, and project management consulting services for this assignment.

40 KW ROOFTOP SOLAR PV FOR GRAND ARCH, IREO GROUP

Ireo group is in process of developing of on grid connected Rooftop Solar power projects at various sites in Haryana. Firstgreen had conducted rooftop survey, wind flow analysis, rooftop bearing capacity & shadow analysis of 24floor Arch tower. Firstgreen has provided Engineering, Procurement & Construction services as well as HAREDA (regulatory) approval.

40 KW ROOFTOP SOLAR PV” FOR SKYON, IREO GROUP

Ireo group is in process of developing of on grid connected Rooftop Solar power projects at Skyon Gurgaon, Haryana. Firstgreen had conducted rooftop survey, wind flow analysis, rooftop bearing capacity & shadow analysis. Firstgreen is providing Engineering, Procurement & Construction services as well as HAREDA (regulatory) approval.

DESIGN, ENGINEERING OF 40 KW ROOFTOP SOLAR PV” FOR CORRIDOR, IREO GROUP

Ireo group is in process of developing of on grid connected Rooftop Solar power projects at various sites in Haryana. Firstgreen had conducted rooftop survey, wind flow analysis, rooftop bearing capacity & shadow analysis. Firstgreen has provided Engineering, Procurement & Construction services as well as HAREDA (regulatory) approval for projects.

SOLAR WATER HEATING SYSTEMS AT SKYON BUILDINGS OF IREO GROUP

Firstgreen is providing services for design engineer, procurement & construction solar water heater on IREO projects such as Skyon & Corridor. The total capacity installation is order of 184,000 LPD, of

which 64,000 LPD is on rooftop of various buildings inside the Skyon projects.

SOLAR WATER HEATING SYSTEMS” AT CORRIDOR BUILDINGS OF IREO GROUP

Firstgreen is providing services for design engineer, procurement & construction solar water heater on IREO projects such as Skyon & Corridor. The total capacity installation is order of 184,000 LPD, of which 120,000 LPD on rooftop of Corridor is on rooftop of various buildings inside the Skyon projects.

PMC FOR 1 MW ROOFTOP PROJECT AT AMITY UNIVERSITY

1 MW Rooftop Solar PV system at Amity University Campus by IL&FS. IL&FS group has signed a PPA for 1 MW solar rooftop project with Amity University. The project is being implemented at the various roofs of Amity University campus. Firstgreen provides his project management consultancy services for the assignment. The scope of work included the site analysis, technology selection, detailed project report preparation, Support in procurement, project monitoring, inspection and quality assurance, commissioning and post

PMC FOR 250 KW SOLAR ROOFTOP PROJECT BY INDIA HABITAT CENTRE

India Habitat Centre is installing 250 kW solar project at its various roofs. Firstgreen Consulting was appointed as bid advisory and project management consultant for the implementation of this solar rooftop project under the RESCO model. The successful bidder will sign a 20 year PPA with India Habitat Centre.

FEASIBILITY ASSESSMENT FOR 10 MW PROJECT OF MOSERBAER GROUP IN THE STATE OF BIHAR

Technical experts of Firstgreen team conducted the radiation profile analysis for the proposed location. Data from different potential sources like Meteonorm, NASA_SSE and MNRE were catered. Variability of the data for individual source was examined and most suited data was considered for the yield estimation. Generally, financial institute are keen to check the certainty of the energy yield. Hence, technical experts have also conducted a uncertainty analysis. Probability of Exceedence analysis was scrutinized at P50, P75, P90, P95 and P99.

SOLAR PV BID ADVISORY SERVICES TO INTER-OCEAN SHIPPING

Interocean shipping were exploring investment opportunities in solar projects and appointed FirstGreen as bid advisory consultant. Firstgreen

conducted financial modeling, and assessed the bid price through pre bid tie ups with the EPC company for project execution. We also prepared all the documents required for the bid submission and subsequently submit the bids. When the results were declared, Interocean won the full capacity for which they had filled their bid in the state of Chhattisgarh and Karnataka.

PMC FOR 6 MW OF ARHYAMA SOLAR POWER (P) LTD., ANDHRA PRADESH;

Arhyama Solar has installed a 6 MW solar project in the state of Andhra Pradesh at Aler, Nalgonda District, Andhra Pradesh. Firstgreen Consulting was appointed as the project management consultant. The scope of work included the site identification, preparation of DPR, regulatory compliance assessment, technical specifications, preparation of RFP, selection of vendors, project tie up for third party sale of electricity, cash flow preparation, contracts for evacuation facilities, reasonability of the contract prices, O&M arrangements and agreement

SOLAR ROOFTOP PROJECTS

EPC FOR 3 MW SOLAR PROJECT AT JK TYRE CHENNAI

firstgreen is doing EPC for 3 MW solar project of JK Tyre as a rooftop solar project.

ILFS PROJECT

1 MW solar Rooftop system at Amity University, Noida By IL&FS

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INDIA HABITAT CENTRE

250 kWp Solar Power Project of India Habitat Centre, New Delhi

[More](#)

JK CEMENT GOTAN

20kW roof top solar power projects to JK White Cements Ltd. Gotan Rajasthan

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VIVEKANAND SCHOOL

20 kW roof top solar power projects at Vivekanand Public School, New Delhi

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SUN TERRACE INDIA

Project management and implementation support for a series of rooftop solar power projects of Suntarrance India Pvt Ltd.

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GRAND ARCH

40 kWp solar PV rooftop system at IREO Grand Arch Gurgaon

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IREO SKYON

40 KW Solar rooftop system at IREO Skyon Gurgaon

[More](#)

ARCHIES LTD

72 KW Solar rooftop system at Archies Ltd Manesar

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RATAN TAXTILES

100 KW solar rooftop project at Ratan taxtiles Jaipur

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JAIPUR COLD STORAGE

40 KW solar rooftop project at Jaipur Cold Storage

[More](#)

JK LAKSHMI CEMENT

30 KW Solar rooftop system at JK Lakshmi Cement Ltd Sirohi

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ARUN SHANTI EDUCATION TRUST

100 KW Solar rooftop system at Arun Shanti
Education trust Jaipur

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BHAGWAN ROOP NETRAYALAYA

10 KW solar rooftop project at Bhagwan roop
netralaya Jaipur

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Miyan Bajaj

40 KW SOLAR ROOFTOP PROJECT AT MIYAN BAJAJ, JAIPUR.

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BLOSAM HOLIDAYS

30 KW Solar rooftop system at Blossam Holidays
Jaipur

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PARADISE PROPERTIES

100 KW Solar rooftop system at Paradise Properties
Jaipur

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IREO GURGAON HILLS

40 kW solar rooftop project at IREO Gurgaon Hills

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IREO CORRIDOR

40 kW solar rooftop project at IREO corridor
Gurgaon

[More](#)

IREO VICTORY VALLEY

40 kW solar rooftop project at IREO Victory valley,
Gurgaon

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PATTON INTERNATIONAL

100 KW Solar rooftop system at Paton International
Behala Kolkata

JIET UNIVERSITY

100 kW solar rooftop project at JIET university

LENDER'S ENGINEER PROJECTS

GANESHVANI MERCHANDISE PVT LIMITED 5 MW SOLAR PHOTOVOLTAIC PROJECT IN UPLETA (GUJARAT)

Firstgreen has worked as lender's engineer on the project. The typical scope of work included the assessment of conceptual design, power purchase agreements, turnkey / package contracts including non EPC items for Engineering, Procurements, Construction and Start – up. Review the adequacy of the insurance contracts, O&M plan and contracts.

MOSERBAER 20 MW SOLAR PHOTOVOLTAIC PROJECT IN RAJKOT

The typical scope of work included the assessment of conceptual design, power purchase agreements, and turnkey. Identification of key risks in each of the above stage, Review the adequacy of the insurance contracts, O&M plan and contracts, Review the reasonableness of the cost incurred for preliminary and preoperative expenses

WELSPUN ENERGY LTD 50 MW SOLAR POWER PROJECT IN THE STATE OF RAJASTHAN

Firstgreen has worked as lender's engineer on several projects. The typical scope of work included the assessment of conceptual design, power purchase agreements, turnkey / package contracts

including non EPC items for Engineering, Procurements. Identification of key risks in each of the above stage, Review the adequacy of the insurance contracts, Review the reasonableness of the cost incurred for preliminary and preoperative expenses

HIRACO RENEWABLE ENERGY PRIVATE LIMITED 20 MW SOLAR POWER PROJECT

The typical scope of work included the assessment of conceptual design, power purchase agreements, turnkey / package contracts including non EPC items for Engineering, Procurements, Construction and Start – up. Identification of key risks in each of the above stage, Review the adequacy of the insurance contracts, O&M plan and contracts, Review the reasonableness of the cost incurred for preliminary and preoperative expenses

LENDERS ENGINEER FOR 5MW SOLAR PV PROJECT OF SAI SUDHIR ENERGY

Firstgreen has worked as lender's engineer on the project. The typical scope of work included the assessment of conceptual design, power purchase agreements, turnkey / package contracts including non EPC items for Engineering, Procurements, Construction and Start – up. Identification of key risks in each of the above stage, Review the adequacy of the insurance contracts, O&M plan and contracts, Review the reasonableness of the cost incurred for preliminary and preoperative expenses

POLICY AND REGULATORY

DEVELOPING A WEB BASED PORTAL “SOLAR GUIDELINES” TO HELP INVESTORS AND DEVELOPERS FOR SOLAR PROJECTS IN TEN STATES IN INDIA

SOLAR GUIDELINES is a web-based platform for encouraging rapid development of the solar power sector in India. This work is available at www.solarguidelines.in for reference. GIZ/SECI has engaged Firstgreen and KPMG as National Consultants in order to further update the existing information for Rajasthan and extend the database to cover 10 more states that include Andhra Pradesh, Karnataka, Madhya Pradesh, Tamil Nadu, Odisha, Gujarat, Maharashtra, Delhi, Uttar Pradesh and Uttarakhand.

LOAN ASSESSMENT OF SOLAR PV POWER PROJECTS ON BEHALF OF RURAL ELECTRIFICATION CORPORATION.

Firstgreen was engaged for this assignment from Rural Electrification Corporation. The scope of work included the technical review of the project System Design and Agreements covering Conceptual Design, Power Purchase Agreement, Turnkey / Package/ Sub package Contracts including non-EPC items for Engineering, Procurement, Construction, Start-up, solar radiation data study, Adequacy of power evacuation arrangements,

Infrastructure availability & adequacy, appraisal of borrower, company, business and management analysis of promoter companies

ACCELERATING SUSTAINABLE PRIVATE INVESTMENTS IN RENEWABLE ENERGY (ASPIRE) PROGRAM

The proposed ASPIRE project is based on the Scaling-up Renewable Energy Program's Investment Plan (SREP-IP) that was duly approved by the Maldives government in 2012 after extensive government and stakeholder consultations. The proposed project aims in promoting solar PV rooftop systems in Maldives so that it can lead to a significant reduction of the government subsidy on the diesel based generation. A change to greater use of solar based PV will also result in decreasing exposure to fuel price volatility, and hence predictability of foreign exchange outflows.

ADVISING MINISTRY OF NEW AND RENEWABLE ENERGY (MNRE) ON POLICY FOR SOLAR RENEWABLE PURCHASE OBLIGATION (RPO) AND RENEWABLE ENERGY CERTIFICATE (REC)

Assessment of Solar Capacity requirement to meet 3% Solar RPO by 2022; Assistance on issues related to implementation of Solar RPO; Suggesting remedies to shortcomings of Solar RPO and REC; Assessing Solar RPO need of Industrial and Service

Sector; Monitoring of arrangements for meeting Solar RPO requirements, State wise and Service centers. This project tracks the solar investments coming up under various phases of Jawaharlal Nehru National Solar Mission, and also the bids received under various state policies.

DEVELOPMENT OF RENEWABLE ENERGY (RE) PLAN FOR SRI LANKA-AN ADB ASSIGNMENT FOR WIND PARK DEVELOPMENT IN SRI LANKA

Analyse prospects, viability and suitability of potential public-private partnership options in Sri Lanka, specifically focusing on wind and **solar power development**. Prepare a wind power business plan incorporating the existing and proposed plans for wind parks. Prepare a business model and develop commercial arrangements for the wind power park. Prepare draft commercial documentation including draft agreements, which may be required for the wind park indicatively between wind park promoter and project developer, etc. Assist SEA on commercial aspects of the solar rooftop power generation pilot roll out, including preparation of the contractual arrangements for the PPP mode.

TRANSACTION ADVISORY

TECHNO-COMMERCIAL DUE-DILIGENCE OF SOLAR PV PLANTS – FORTUM INDIA LIMITED

Fortum India acquired a 5 MW solar project of Amrit Solar power (Moserbaser Group) in Rajasthan.

Firstgreen Consulting was the transaction advisory consultant and the scope of work included the review of project location, assessment of solar radiation data, power evacuation infrastructure near site, System sizing, layout planning. Assessment of major components and systems with regard to their suitability and adequacy to perform with respect to project capacity, review and comment on the selection and design of the equipment with respect to their effect on the anticipated service life of the plant.

RENEWABLE ENERGY MASTER PLAN FOR SRI LANKA; AN ASSIGNMENT FUNDED BY ASIAN DEVELOPMENT BANK.

This is a comprehensive study on renewable energy resource availability, and on the technical limitations of the national grid which are causing barriers for integrating renewable resource-based power generation. The major activities included the preparation of a renewable energy development master plan for Sri Lanka, a wind park master plan for Mannar, and a business model for Mannar wind parks for the Ministry of Power & Energy of Sri Lanka with financial assistance provided by Asian Development Bank. The study includes the development of a comprehensive Master Plan for wind power development in the Mannar district in northern Sri Lanka, and the development of a business model to attract investments for wind power development.

BUILDING
ENERGY
EFFICIENCY

GRIHA CERTIFICATION FOR IREO FOREST GURGAON

IREO Forest is a commercial SEZ project by IREO group in Gurgaon. The project incorporates some unique architectural features like central open atrium to maximize day lighting, efficient U value façade glazing, Firstgreen is responsible for green building facilitation through GRIHA for the building. GRIHA Certification for IREO FOREST

GRIHA CERTIFICATION FOR IIREO TWIN TOWERS GURGAON

IREO twin towers is a residential project by IREO group in Gurgaon. The project incorporates some unique architectural features like central open atrium to maximize day lighting, efficient U value façade glazing, Firstgreen is responsible for green building facilitation through GRIHA for the building.

GRIHA CERTIFICATION FOR SSP BUILDCON COMMERCIAL PROJECT AT DELHI

SSP buildcon is developing their commercial building "in Delhi. The project incorporates some unique architectural features like central open atrium to maximize day lighting, efficient U value façade glazing, Firstgreen is responsible for green building facilitation through GRIHA for the building.

LEED: NC (USGBC) CERTIFICATION IT BUILDING AT GS SQUARE GURGAON

The project incorporates some unique architectural features for day lighting like, energy efficient HVAC systems, water efficient landscaping, and other sustainability features. Firstgreen is responsible for green building facilitation through USGBC. .

LEED: NC (IGBC) CERTIFICATION FIR EMAAR MGF DIGITAL GREENS GURGAON.

Emaar MGF group is developing their building "Digital Greens" at Gurgaon. The project incorporates some unique architectural features like central open atrium to maximize day lighting, efficient U value façade glazing, Firstgreen is responsible for green building facilitation through IGBC for the building. Ansal group is developing their new corporate headquarter, "Ansal Experience Center" in Lucknow, India. The project incorporates some unique architectural features like central open atrium to maximize day lighting, efficient U value façade glazing, Building Integrated Photo Voltaics and others. Firstgreen is responsible for BIPV design to successfully integrate and install the Solar PV modules with the building façade.

LEED EBOM CERTIFICATION OF 25 DLF BUILDINGS

DLF limited is one of the biggest real estate group in India. The group promotes and develops residential and commercial buildings on pan India basis. The group provides high quality rental spaces for commercial offices, retails and restaurants. The services provided in the project include the LEED certification of DLF buildings. This is the First project in India to achieve the LEED: EBOM certification for existing buildings from USGBC under a volume program. Firstgreen has registered so far 25 buildings with USGBC.

CARBON ADVISORY SERVICES TO DLF GROUP

DLF limited is one of the biggest real estate group in India. The group promotes and develops residential and commercial buildings on pan India basis. The

group provides high quality rental spaces for commercial offices, retails and restaurants. The services provided in the project include the CDM registration for the wind and gas based cogeneration, trading of CERs, and VERs of the group, development of new methodology for the gas based cogeneration projects.

CARBON ADVISORY SERVICES TO MOBINIL GROUP EGYPT

Mobinil group is largest telecom group in Egypt, and in the process of implementing solar powered telecom towers in Egypt. The services provided by Firstgreen include: Preparing PDD based on the guidelines of the UNFCCC. Baseline study for building energy efficiency , Benchmark: The project activity requires establishing a benchmark of the emission to evaluate the emission reduction and proposing a monitoring plan as well.

TRAININGS AND WORKSHOPS

TRAININGS AND WEBINARS CONDUCTED BY FIRSTGREEN

- Solar PV Plant Performance Monitoring. Sub topics-Testing process, Inspection methodology, Check Points'
- Solar Project Financing. Sub topics- Different financing routes, Equity management, availability of bank loan
- Planning and Implementation of Solar PV Plants. Sub topics- Different Government policies, site selection, EPC selection, material procurement, erection and commissioning, post commissioning assessment
- Solar power project development at Hyderabad. Sub topics- Solar Plant performance factors, construction details & its best practices, plant monitoring activities
- Solar PV system sizing using PVSYST. Sub topics- software's benefits, different features, climatic data analysis
- Solar Power Projects Development at New Delhi. Sub topics- plant erection strategies, panel –inverter arrangements, plant monitoring strategy.
- Building Energy Efficiency at Mauritius. Sub topics- identification of energy consuming areas, efficient HVAC operational strategies, energy efficient measures, integration of renewable energy
- Solar –DG Hybrid System. Sub topics- technological concept of Solar- DG Hybrid system, implementation process of the system, approach for installation, benefits of the system
- Solar PV Plant Operation & Maintenance. Sub topics-operating action plan, data monitoring, pre-auditing actions, auditing process, post audit action plan, regular maintenance strategy
- Master Class on PV syst. Sub topics- software features, data input parameters, climatic data analysis, modelling & simulation of the plant, result analysis
- Building Integrated Photovoltaic (BIPV). Sub topics- BIPV concept, latest design approach, basic parameters for BIPV performance, architectural advancement of the basic design
- Solar PV plant technology selection. Sub topics- different PV technologies, efficiency comparison of these technologies, PCU performance assessment, conversion ability assessment
- Solar Resource Assessment. Sub topics- different data centres, data reliability, parameters selection for comparison , data comparison, site assessment

OUR KEY CLIENTS

OUR CLIENTS

DLF LTd

Firstgreen has worked with DLF Group on building energy as well as wind power projects

IREO Ltd

Firstgreen has worked with IREO Group on solar as well as building energy efficiency assignments

JK Group

Firstgreen has worked as PMC consultant on solar power projects

BPCL

Firstgreen has been working with BPCL as a PMC consultant for solar projects

Ostro Energy

Firstgreen has worked with Ostro energy as a bid advisory consultant

Indian Oil

Firstgreen has worked with Indian oil group for energy audit assignments

Archies Group

Firstgreen has worked as solar rooftop EPC to the archies rooftop project

IL&FS

Firstgreen has been working with IL&FS as a PMC consultant for solar rooftop projects

UJVNL

Firstgreen has advised UJVNL for the solar feasibility studies

SECI

Firstgreen has worked with SECI on Policy advisory as well as on the solar feasibility studies.

Lanco group

Firstgreen has worked on design and engineering of their 50 MW solar power project in AP

Today Energy

Firstgreen has been working with today energy as a PMC consultant for their solar projects in Rajasthan, MP, Karnataka, and Punjab

Mobinil

Firstgreen has advised mobinil group in Egypt for CDM projects

Arhyama Solar

Firstgreen has worked with Arhyama solar as a project management consultant for their solar PV project of 6 MW capacity in Andhra Pradesh.

India Habitat Centre

Firstgreen has worked as project management consultant with India Habitat Centre for their 250 KW rooftop solar PV installation.

Amity University

Firstgreen has worked with Amity University for installation of their rooftop solar power project

