



Solar PV Capability Statement

Commercial in Confidence

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Commercial in Confidence

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Executive Summary

Wind Prospect's vast experience within the wind energy industry has been successfully transferred across all forms of renewable energy and the company has the specialist capability to provide full project lifecycle services to the solar photovoltaic industry. Wind Prospect has been involved in solar projects around the world for over 10 years with experience covering global markets including the UK, France, Germany, Australia, South Africa, China and the Caribbean. Wind Prospect provides an extensive range of services to aid you in the successful completion of your solar energy project.

At Wind Prospect, we bring confidence to the development and appraisal of renewable energy projects. The solar industry is currently experiencing rapid growth worldwide, and is expected that this trend will be continued. We bring comprehensive technical and management skills to the project development and delivery process, and combine these skills with full technical, commercial, environmental and operational understanding. The depth and breadth of our in-house resources means we are able to offer a full range of skills necessary for the successful completion of solar projects, resulting in client confidence that projects will be delivered to meet client expectations.

Services provided to the solar energy industry include:

- Market and strategic advice.
- Regulatory development and analysis.
- Feasibility studies and conceptual designs.
- Due diligence assessment.
- Investment and acquisition appraisals.
- Planning, permitting and environmental assessment.
- Project development and implementation management.
- Resource assessment and energy yield.
- Technology assessment.
- Development of commercial agreements.
- Design of civil and electrical works.
- Design and negotiation of grid connection arrangements.
- Specification, tender adjudication and site supervision.
- Construction management or monitoring services.
- Operational management or monitoring services.
- Asset Management services.

Key reasons to choose Wind Prospect for your Solar PV assignment:

- We bring an extensive track record including recent experience acting as technical advisor for the construction of solar farm projects in the UK on behalf of both debt and equity.
- We have a deep knowledge and experience of the permitting (planning) system in the UK and other countries from other current projects advising investors and owners.
- We have an experienced team of grid specialists, who understand the design, costs and deliverability of grid connections for projects in the UK.
- Wind Prospect has an in-house, dedicated team of Energy Yield specialists who have a long track record of delivering EYA studies and reviews for wind and solar farm projects.
- Wind Prospect has a successfully established knowledge of the contracts (TSA, BoP, MSA, O&M etc) used in wind farm projects having worked on the development of 150 renewables projects and undertaken hundreds of due diligence projects.
- Our team is responsive and all possess recent experience in undertaking technical advisory work for the financing of renewables projects.

I Wind Prospect Group

Wind Prospect has successfully developed renewable energy projects around the world. Our expertise acquired over two decades is available to aid you in finding, developing, building, operating, buying and selling your own renewable energy projects.

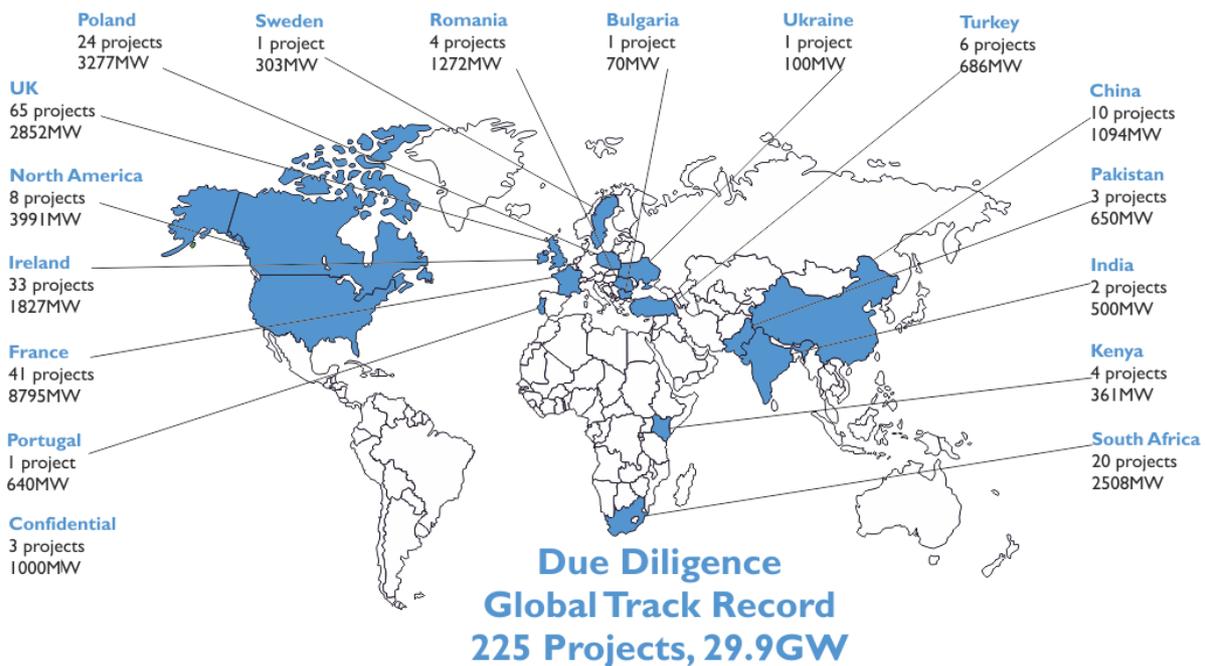
Wind Prospect is a global energy business well known & respected in International markets whilst the name alludes to the company’s foundation in the wind energy industry WPG has the capability to provide full project lifecycle services to the solar photovoltaic industry. The fundamental principles of a solar PV development reflect that of other renewable energy sources. However, as with any transaction, thorough due diligence is vital to ensure the process progresses quickly and as smoothly as possible. We provide engineering, management and commercial advice throughout the project lifecycle. Employing some 190 expert staff, WPG has offices in UK, China Ireland, Australia, Hong Kong, Singapore, Poland, France and South Africa.

WPG’s experience can be summarised as follows:

- Delivered **225 due diligence projects totalling 29,9GW, including 28 projects in Eastern Europe.**
- Achieved **planning consent for over 3,4GW** of renewable energy production capacity.
- Instrumental in the **design and construction of more than 150 renewable energy projects** worldwide.
- Provides **Asset Management services for 80 solar projects.**

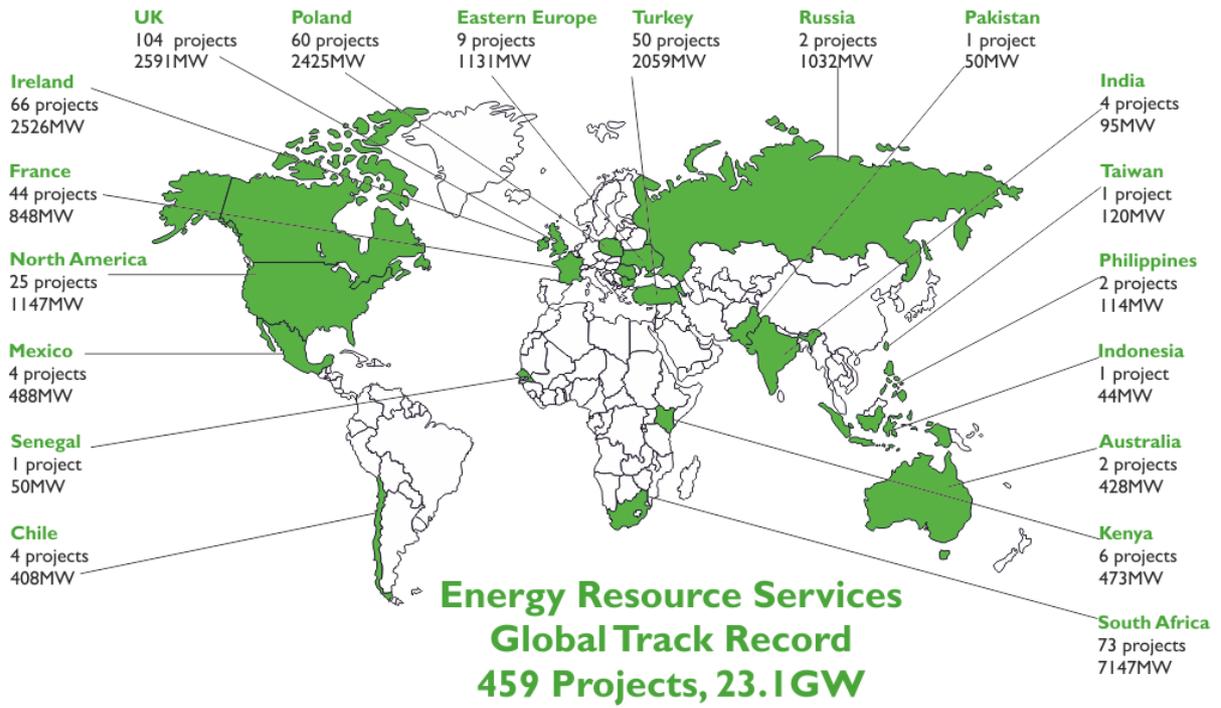
I.1 Advisory Services track record

Wind Prospects expertise is widely sought by investors and sponsors in order to verify, evaluate and benchmark renewable energy projects. Through its principal offices in Bristol, Dublin, Cape Town, Singapore, Beijing and Warsaw, the Advisory Services team has delivered technical and commercial advice in relation to nearly 30GW of renewable energy projects all over the world.



1.2 Energy Resource Assessment track record

Wind Prospect has delivered **459 energy resource assessments** or reviews, on projects **totalling 23.1GW**, including **69 projects in Eastern Europe** totalling more than **3.6GW**.



2 Solar PV

2.1 Advisory Services

Wind Prospect is able to provide world class technical and commercial consultancy services at all stages of a solar project - from development through to the operation. Wind Prospect offers commercial and industry advice, feasibility studies, negotiation of agreements (Supply & Install, EPC, Grid Connection, O&M etc.), due diligence services as well as specialist consultancy services in all phases of project evolution.

Feasibility studies and development support

Assessing the feasibility of a potential development project requires in depth knowledge of a range of technical and commercial issues relating to a site. This is essential in ensuring the project is viable and appropriate for further investment. Wind Prospect can provide a range of feasibility studies including:

- Land availability, rights and permitting process.
- Energy yield potential.
- Potential module and inverter types and manufacturers.
- Initial tendering to manufacturers and contractors.
- Equipment delivery and site access.
- Onsite electrical design and grid connection options.
- Initial financial modelling.
- Risk analysis.

Due Diligence and Lender's Engineer

When investing in a project during the development phase, it is important to confirm that the project is being developed to industry standards ensuring the project will be suitable for financing and pre-construction work.

As a project reaches middle age and its initial operations and maintenance contract expires, the risk of significant maintenance issues can be higher. Careful consideration of O&M options for the remainder of the project's lifetime is important to both maximise revenue and profitability and minimise costly repairs and downtime.

Pre-financial close is a critical time for the success of a project. Wind Prospect has acted as lender's advisor on a wide variety of projects for both bank and equity providers interested in investing in a solar project in the run up to financial close. Wind Prospect has a very strong record of conducting due diligence for developers, owners and investors on a wide variety of projects around the world, including both brownfield and greenfield sites.

Equipment technology review

Unlike the wind turbine market, solar technology and manufacture process has a wide range of options and it is vital the technology is understood so that the energy yield throughout the operational life can be accurately modelled with a high degree of reliance.

Wind Prospect can review the technology, visit and review the factory, manufacturing and assembly processes, and report not only on the capability of the technology but on the quality of the finished product. This can be an essential part of the module and inverter selection process, in partnership with tendering and site assessment.

Equipment procurement

Equipment procurement can be a complicated process. Wind Prospect offers all levels of negotiation services for module, inverter, array cabling and BOP, from technical advisor through to complete turnkey negotiation including advising on supplier selection.

Commercial advice

We have experience throughout the financing process, with all types of investment models, approaches and markets. Wind Prospect provides essential advice to our clients relating to the return on their investments. Not to be mistaken with professional financial advice, we focus on reviewing the financial models used, inputs and considerations of renewable energy project particulars, comparisons with our own models and feedback to our clients to verify their understanding of the site and the potential for their investment.

Owner's Engineer

Renewable energy project contracts include a variety of roles to be fulfilled with different aims and objectives. Wind Prospect has managed the construction of over 100 projects acting as owner's engineer (OE). The experience of the OE is essential for the smooth running of the construction process and the reduction of interface risk, particularly in multi-contract projects. We manage the interaction of all contractors' works at the site and ensure the programme is kept to and that the owner's interests are met.

2.2 Project Resource Assessment

Wind Prospect is a world leader in energy resource assessment. Our energy resource team is made up of highly professional analysts from backgrounds in engineering, mathematics, physics and geography, giving us first rate knowledge of all the key factors relevant to energy yield assessments.

Quantifying a project's energy yield accurately is pivotal to securing project investment. Our track record within wind energy demonstrates that international banks and investors trust us to provide bankable analyses. The same diligence has now been transferred into solar resource assessments using in-house tools with industry standard modelling software and best practice.

2.3 Development services

Our experience in renewable energy began with the UK's second commercial wind farm in 1992. We have since provided services in the development, design, construction, operation and maintenance of renewable energy projects across the world. This extensive experience is available now to assist you in finding, developing, building and operating your own solar projects.

We work closely with local communities, interest groups and government agencies fitting solar farms into local landscapes. We create community consultation websites for many of our projects to keep stakeholders up to date at each step of the development. Our goal is to strike the right balance between the global benefits of renewable energy and the impact of solar projects on the local environment.

We have extensive experience in the preparation of Environmental Impact Assessments and coordinate the full range of environmental studies required. These are prepared in compliance with all regulatory requirements and international Best Practice Guidelines, and are carried out in full consultation with all local stakeholders.

Wind Prospect can aid in the preparation for permit and license applications and further provide verification of your paperwork to show regulators your compliance and stakeholders your commitment to environmental protection. These include the following:

- Ecology, ornithology, biodiversity and ecosystems.
- Landscape and Visual Impact.
- Historic and cultural heritage.
- Hydrology and geological constraints.
- Electrical layout and grid connection.
- Social analysis.
- Land use and tenure.
- Transportation
- Additional specific permits, planning agreement, transportation, habitat management.

2.4 Environmental Services

The Environmental Services Division of Wind Prospect provides quality environmental expertise on projects in pre-construction, construction and operational phases which demand environmental monitoring and legislative compliance.

Pre-construction monitoring

Our environmental monitoring during the pre-construction phase involves the following: Reviewing the planning condition requirements and allocating responsibilities; Engaging with sub-consultants, such as archaeologists, hydrologists and ecologists to produce key documentation for planning condition discharge; Reviewing and extracting key environmental information from the ES and associated documents, and ensuring that they are taken into account in the detailed design and planning discharge documentation. In addition, the environmental team contributes to:

- Design reviews.
- Civil and electrical designs.
- Employers requirements.
- Health and safety documentation.
- Contractor selection and tendering.
- Operational protocols.

Construction monitoring

Our monitoring during the construction phase involves the following:

- Undertaking monthly on-site environmental audits.
- Liaison with sub-consultants and contractors.
- Ensuring that restoration of the site is undertaken to the requirements of the project.

Environmental Clerk of Works

Our environmental team provides full Environmental Clerk of Works capability not only in areas of ecology but including monitoring of a company's requirements for their Environmental Management Systems. This includes:

- Waste and water management.
- Noise, dust and pollution assessments.
- Dust, statutory nuisance.
- Incident investigation and Training.
- Liaison and assistance with statutory bodies.

Post-construction monitoring

Our environmental monitoring during the Post-construction phase involves:

- Ensuring that restoration of the site has been successful and has met key environmental targets.
- All appropriate species surveys have been undertaken, as specified in the planning discharge documentation.
- Follow up programme of monitoring is being undertaken.
- Water quality monitoring and rehabilitation following incidents.
- We provide bespoke monitoring to ensure all potential risks, mitigation measures and environmental areas are identified for contractors and clients.

Environmental Compliance

On-site monitoring of contractors can help identify non-compliance and identify poor working practices and working with contractors, stakeholders and consultees ensures that best practice is adopted and environmental incidents are prevented. Since 2007, Wind Prospect have undertaken audits and inspections on sites during geotechnical investigations and all construction phases to ensure "better than industry" practices are adopted. This has proved useful in the planning phase of more complex or sensitive sites and to demonstrate good practice to consultees.

Water quality

Water quality issues may arise due to many factors; these factors include the occurrence of sediment laden run-off due to high volumes of water and inadequate drainage provisions during the construction phase, to oil spillages during the operational phase. Getting good data for baseline water quality prior to construction allows issues arising on a site during the construction an operational phases to be identified and preventative measures put in place.

2.5 Electrical Engineering Consultancy

Wind Prospect has the experience and the staff to ensure that all necessary expertise is available in house to the high quality standards synonymous with the Wind Prospect brand. We can provide a full package of Electrical Engineering Services. These are listed as follows:

Pre-construction design

- PV farm layout
- Preliminary substation layout / elevation drawings, / single line diagrams.
- Preliminary grid connection method / cost / feasibility study.
- Solar farm electrical layout.
- Onsite irradiance measurements.
- Connection application.

Grid system operator services

- Optimal network development study with large scale.
- Solar power integration.
- Load flow studies.
- Fault level studies.
- System stability studies.

System operator negotiation

- Management of the connection offer process.
- Review of connection offer: cost, programme.
- methodology, contestability.
- Connection offer negotiation.
- Dispute resolution.

Integration into industrial installations

- Review project requirements and produce an outline.
- functional electrical design.
- Power quality studies.
- Load/ demand power balance study.
- Protection co-ordination studies.

Solar farm construction

- Review project requirements and produce an outline/ functional electrical design.
- Review contractors submitted studies and calculations.
- Manage the Grid Code compliance process.

Solar farm electrical design services

- Power losses/ cable sizing.
- Grid transformer specification study.
- Fault level/ circuit breaker sizing study.
- Voltage fluctuation/ regulation study.
- Harmonics study.
- Power factor correction study.
- Insulation coordination study.
- Protection coordination study.
- Grid code/ fault ride through capability study.

Factory / site witness testing

- Solar operation.
- Grid code breaching investigation.
- Nuisance tripping investigation.

2.6 Construction Management Services

Construction Services can help to bring your projects to successful completion by acting in partnership with you and your investors by providing a comprehensive services package tailored to meet the specific requirements of your project. These are summarised as follows:

Construction Management Services - Management

- **Project management** - The project managers are solely responsible for the delivery of their projects from the development, pre-construction and construction phases. To enable them to undertake their duties they have access to all our in house expertise. The project manager acts a single point of contact with the client, providing regular reporting covering progress, commercial, Health and Safety, and may other issues as required by the client. Our project management systems are certified to ISO 9001, 14001 and 18001 and we are continuously updating our business systems to reflect best practice and lessons learnt from previous projects.
- **Site supervision** - The site supervisors have a full time presence on site where their role is to ensure that the works are undertaken to specification, programme and comply fully with Health and Safety legislation. They also co-ordinate the onsite works between the various contracting entities, maintain daily work record sheets and liaise between the parties.
- **Stakeholder and consultee engagement** - As and when required our project management systems are sufficiently flexible to enable the client to specify and undertake themselves or via external consultants or parties specific duties and responsibilities should they wish. Be it in the form of specialist environmental, Health and Safety, Banks engineer or other client input.
- **Landowner liaison and management** - Landowner liaison and management is provided to ensure that the impact on the landowners activities are minimised, that the temporary and permanent design works are agreed in advance and any impact and remedial works associated with the landowners property such as land drains, fencing, etc. are agreed in advance and implemented as required. The site agent also provides a direct point of contact with the landowner or their agent should there be any concerns or issues which require immediate or prompt response. The project manager provides further input to this process during his regular site attendance should this be required and reported to the client

Construction Management Services - Technical

- **Earthworks inspections and testing** – Wind Prospect provide a full range of inspections and monitoring to ensure that both the temporary and permanent works comply with the contract requirements and specifications. These include: Analysis of materials sourced on and off site to ensure it meets contract specification; Monitoring of material placement and compaction; Monitoring of performance of materials and roads; Undertaking or witnessing of performance test, plate load and CPT etc; Monitor slope stability; Drainage performance; Structural inspections and remedial works design; Electrical testing, commissioning and inspections; array inspections and snagging.
- **Structural inspections and remedial works design** - We provide a full range of inspections and continued monitoring of the installation of critical structural elements such as anchor, switchgear house, bridge structure etc. These include: Inspection, approval and geotechnical evaluation of anchor formation; Witness concrete placement, testing and curing for the anchors and analysis of concrete cube results to ensure full compliance; Approval, witness and test if necessary any remedial works required to bring permanent works to meet the contract requirements; Witness access works and test runs.
- **Electrical testing, commissioning and inspections** – Wind Prospect provides a full range of electrical inspections and monitoring by our experienced electrical engineers to ensure the electrical installations meet the contractual, equipment manufacturers and utilities

requirements such that the works can be safely energised and the arrays can generate and export to the grid. These include: Review and approval of the Electrical contractors design; Review and approve Electrical contractor material suppliers; Attend and witness any off site testing of key equipment; Witness any onsite testing; Final inspections prior to energisation; Approval of contractor Safe System of Work; Monitor power quality and interface with grid.

- **Equipment inspections & snagging** - We undertake as part of the solar array approval and hand over detailed inspection of the system equipment, these include: Inspection of the modules and inverters with preparation of detailed inspections sheets; Review of the array performance during the testing period including SCADA by one of our specialist operations engineers to ensure that the array has passed all the test criteria. Monitor any remedial works or repeat; testing as required.

Construction Management Services - Health and Safety

- **CDM coordinator (UK)/ Planning supervisor (Ireland)** - We perform the role of CDM Coordinator (within the UK) and planning supervisor (in Ireland) alongside our day to day project management duties. With support from our dedicated safety team, the project management teams can call on any number of experts to assist with the duties and responsibilities tasked of a safety co-ordinator. This can include the early consultation with contractors, suppliers, designers to ensure that the installation, design and operations are compliant with specific health and safety legislations and meets both the clients and the utilities requirements.
- **Principal contractor** - We can perform the role of Principal Contractor during pre-construction and construction phases of projects, providing the management and supervision of subcontractors working on the site, providing Health, Safety and welfare facilities during any part of the construction process. We have undertaken this role on behalf of E-ON Renewables on several of their projects in the UK and have been subject to regularly audit by their own internal H & S team and the systems in place have proven to be well managed, effective and robust.
- **Ecology clerk of works** - As is normally required as part of project planning conditions there is a requirement to develop and implement an environmental and ecological management plan. Depending upon the sensitivity of the site we can provide the various levels of Ecological supervision utilising either internally qualified personnel for patrol supervisor or if a continued provision for an Ecological clerk of works this can be provided by a number of our experienced Ecological consultants.
- **Site audits and inspections** - We as part of our ISO accreditation our internal QA personnel undertake regular QS and Health and safety audits both on and off site, to ensure that our systems are properly maintained. This is further augmented with twice yearly audits by external auditing bodies.

2.7 Operations and Asset Management

Keeping down-time to a minimum is essential for the profitable operation of a solar project as well as ensuring its longevity. Faults must be recognised early so that the right measures can be promptly implemented. This can prevent consequential damages and allows maintenance-related shutdowns to be scheduled ahead of time.

We offer the full range of technical, commercial and financial services focussing on enhancing investment returns for the project owner. Our experienced team ensures 'best-in-class' standards of health, safety, performance, financial compliance and asset optimisation. Our services include:

- Commercial & contracts management.
- Financial management & administration.
- Site management & inspection.
- Health, safety & environmental compliance.
- Data acquisition, storage & analysis.
- Detailed operational reporting.
- Continuous monitoring & control.
- Site optimisation & operations assessment.
- End of warranty inspections.
- Operation and maintenance contract review.

3 Selected Project Lists

WP's recent Solar PV Projects include;

Year	Solar Farm	Country	Company	Project Role	MW
2018	Portfolio of 16 PV projects	Poland	Confidential	Due diligence	13
2018	Portfolio of 14 PV projects	Poland	Confidential	Monitoring of construction phase	14
2017	Portfolio of 9 PV projects	Poland	Confidential	Due diligence	9
2017	Portfolio of 41 PV projects	Poland	Sequoia Investment	Due diligence and Solar Resource Assessment	41
2017	Portfolio of 14 PV projects	Poland	Sequoia Investment	Due diligence and Solar Resource Assessment	14
2017	Portfolio of 1600 PV micro-installations	Poland	Alior Bank S.A.	Due diligence	-
2017	Portfolio of PV projects (240 sites)	Poland	Confidential	Resource Assessment	240
2016	Waddi Wind Farm and Solar Plant	Australia	Trust Power	Development Services	80
2015	Lynt Solar Farm	England	Bay Wa r.e	Construction management	27
2014	Xicun I Solar Power Station	China	CLP	Data management& Solar Resource Assessment	42
2014	Shandong	China	CLP	Data management	-
2014	Equinox Portfolio (7 sites)	France	Blackrock	Construction management	50
2014	Gardanne & Vallerague	France	IWB	Performance Audit	5
2014	Estarac	France	Quadran	Other consultancy	2.5
2014	Portfolio (78 rooftop)	France	Solaire Direct	Operations management	-
2014	Portfolio (8 rooftop)	France	Antelio	Other consultancy	2
2014	Water heating project	Guadeloupe	Apex Energies	Operations management	-
2013	PACA	France	Operations	Technical management	34
2013	Chaillac	France	Semer	Operations management	4.4
2013	GET FIT	Germany	AEAS GmbH	Other consultancy	-
2013	Portfolio (85 rooftop)	France	Prime Renewables	Construction management	12.53
2013	Portfolio (73 sites)	France	Prime Renewables	Operations management	12
2013	Vinon-sur-Verdon	France	DIF	Operations management	4.2
2013	Varages	France	DIF	Operations management	5.95
2013	Les MEES II	France	DIF	Operations management	11.8
2013	Les MEES I	France	DIF	Operations management	12
2013	Yardwall	England	Belltown Power Limited	Other consultancy	3
2012	Lavansol (4 sites)	France	Operations	Operations management	15.45
2012	Confidential	Australia	AGL	Solar farm investigation	-

2012	France (11 rooftop)	France	GEG ENER	Buyer Due Diligence	11
2012	France (2 sites)	France	Operations	Technical management	13
2012	Samana	India	CLP	Data management	-
2012	Carros	France	AIC Patrimoine	Buyer Due Diligence	0.2
2011	Sun Sea Portfolio	France	Sun Development	Due diligence	10
2011	Belize 2 & 3	Guadaloupe	Advisory	Due diligence	9
2011	Amadouso	France	DIF	Operations management	8.52
2011	Valensol	France	Allianz Specialised Investments	Operations management	12
2011	Saint-Marcel	France	Allianz Specialised Investments	Operations management	11.9
2011	Confidential	Australia	CWP	Solar feasibility study	-
2011	Mallee	Australia	CLP	Data management	-
2011	Molonglo	Australia	Advisory	Due Diligence	-
2011	Croda Chemicals	England	Croda Chemicals	Solar feasibility study	-
2011	Adiant	England	123 Venture	Due Diligence	40
2011	France 2 sites	France	Advisory	Vendor Due Diligence	45
2011	Les Mees	France	AES	Buyer Due Diligence	20
2011	TaiPo	Hong Kong	CLP	Data management	-
2011	Jaisalmer	India	CLP	Data management	-
2011	Bharuch (GPEC)	India	CLP	Data management	-
2011	Jhajjar	India	CLP	Data management	-
2010	Una Group	England	The Una Group	ALL Development stage	1
2010	Solar Dawn	Australia	Solar Dawn	ALL Development stage	250
2010	Kogan Creek Power Station	Australia	CS Energy	Data management	-
2010	Kogan Swan	Australia	CS Energy	Data cleaning	-
2010	Kogan Whyte	Australia	CS Energy	Data cleaning	-
2010	PingTung	Taiwan	CLP	Data management	-
2009	Woomera	Australia	Arcoona Station	Data management	-

Selected projects where we acted as Lenders Technical Advisor;

Project	Client	Country	Role	Total MW
Confidential	Confidential	South Africa	Lenders Technical Advisor	50.4
Confidential	Confidential	South Africa	Lenders Technical Advisor	142.8
Tursillagh I	Confidential	Ireland	Lenders Technical Advisor	15.2
Tursillagh II	Confidential	Ireland	Lenders Technical Advisor	6.8

Confidential	Confidential	France	Lenders Technical Advisor	20
Confidential	Confidential	France	Lenders Technical Advisor	18
Cookhouse	Standard Bank & Nedbank	South Africa	Lenders Technical Advisor	306
Kouga	Standard Bank & Nedbank	South Africa	Lenders Technical Advisor	100
Hopefield	Rand Merchant Bank	South Africa	Lenders Technical Advisor	66.6
Jeffrey's Bay	ABSA	South Africa	Lenders Technical Advisor	138
Confidential	Confidential	Ireland	Lenders Technical Advisor	9.2
Arthur	LBBW	Canada	Lenders Technical Advisor	11.5
Confidential	Confidential	Ireland	Lenders Technical Advisor	4.6
Sorne II	Ulster Bank	Ireland	Lenders Technical Advisor	6.9
Confidential	Confidential	Scotland	Lenders Technical Advisor	6
Maesgywn	Barclays Bank	Wales	Lenders Technical Advisor	26
Confidential	Confidential	Ireland	Lenders Technical Advisor	1.8
Strath of Brydock	Bank of Scotland	Scotland	Lenders Technical Advisor	6.9
Mountain Lodge Phase 1	Bank of Ireland	Ireland	Lenders Technical Advisor	3
Midas	Confidential	Ireland	Lenders Technical Advisor	32.45
Flughland	Ulster Bank	Ireland	Lenders Technical Advisor	9.2
Loughderryduff	Bank of Ireland	Ireland	Lenders Technical Advisor	7.65
Aikengall	HSBC	Scotland	Lenders Technical Advisor	48
Ranson Moor II	Alliance & Leicester	England	Lenders Technical Advisor	4
Craig Wind Farm	Alliance & Leicester	Scotland	Lenders Technical Advisor	10
Wharrels Hill	HSH Nordbank	England	Lenders Technical Advisor	10.4
Midas	Barclays Bank	Ireland	Lenders Technical Advisor	32.45
Arnish Moor	Alliance & Leicester	Scotland	Lenders Technical Advisor	3.9
Greendykeside	Alliance & Leicester	Scotland	Lenders Technical Advisor	4
Bougainville	Bank of Scotland	France	Lenders Technical Advisor	12
Demie Lieue	Bank of Scotland	France	Lenders Technical Advisor	12
La Murette	Bank of Scotland	France	Lenders Technical Advisor	11.5
Chemin Blanc	Bank of Scotland	France	Lenders Technical Advisor	12
Ballybane	Allied Irish Bank	Ireland	Lenders Technical Advisor	29.9
Beam Hill	IIB Bank	Ireland	Lenders Technical Advisor	14
Sorne Hill	KBC	Ireland	Lenders Technical Advisor	32
Tursillagh I	IIB Bank	Ireland	Lenders Technical Advisor	15.2
Ranson Moor	Alliance & Leicester	England	Lenders Technical Advisor	6
Dunmore	Bank of Ireland	Ireland	Lenders Technical Advisor	1.7
Lahanaght Hill	IIB Bank	Ireland	Lenders Technical Advisor	4.25

4 Typical Scope of Work

Below is a typical scope of work that we would expect for an LTA role;

4.1 Review of Existing Due Diligence performed for the owner of the project

- Determine whether recommendations of the Technical Advisor have been duly implemented by the project.
- Discussion with legal and/or insurance adviser.

4.2 Technical Gap Analysis (EPC + O&M)

- Verification of the construction works schedule.
- Identification of potentially risky schedule assumptions regarding the country specifics and project location.

4.3 Site Visit

- Review of the available site boundary maps to assess the presence of any potential technical risks relating to obstacles (forestry, buildings, etc.), water courses, third party infrastructure or activities (i.e. gas/electric/telecoms/roads). Opine on the general viability of the site.
- Review of the proposed layout design to determine general constructability, planning compliance, productivity and longevity. Opine on the general viability of the proposed layout design.
- Review of the proposed delivery route to site to identify any obvious restrictions that would prevent delivery or materially increase the cost of developing the route. Opine on the viability of the route options.

4.4 Review of Yield Assessment

Review and comment on existing Yield Assessments with regard to, among others:

- Plausibility of the calculations.
- Verification of assumptions.
- Suitability of data sources.

4.5 Review Technical specifications and System Design

Examine the Technical Specification with a view to the suitability of the PV system and the components used;

- Review and evaluate the Flash test methodology.
- Review and evaluate the module supporting structure and fittings.
- Review other system components, incl. inverters, electrical system, lightning protection, security concept, integration and interoperability of technical components, compliance with relevant standards.
- Recommendations for modification of the technical system design, if necessary.
- Assess the reliability and track record of module, and inverter suppliers, technical characteristics of the modules incl. certification and underlying documentation.
- Assess the suitability of the inverters for the grid requirements.

- Climatic conditions including temperature, wind and seismic conditions.
- Ground/Terrain conditions/ Foundation, fixation and sealing solution.
- Surrounding obstacles to assess shading impact (e.g. by neighbouring trees and buildings);
- SCADA & Control.
- If necessary, other relevant points.

4.6 Review of project contracts (in close collaboration with the Legal Adviser)

The review of the project contracts should in principle give opinions and judgments on the following issues:

Technical and commercial consistency of the project contracts as well as compliance with all laws, regulations and industry standards;

- Price
- Performance range.
- Terms of Payment.
- Warranty / guarantees.
- Response times.
- Damage compensation /Liability limits.
- Termination rights.
- Interface with other contracts.
- If necessary, other relevant points.

Project contracts

- EPC contract
- O& M Contract

Compare actual performance from project start-up to representations and guarantees in the contract;

- Determine the adequate sizing of a Maintenance Reserve Account, if necessary, particularly in view of estimated inverter replacements during the lifetime of the bank loan.
- Comment on conformity of contract to market standards, i.a. w/r to staffing, operational organization, duties, reporting, availability and / or performance ratio guarantees.
- Power Purchase Agreement.
- Insurance contracts.
- Prepare data for the insurance consultant to evaluate the scope of the policy.
- Lease Agreement.
- Any other relevant project agreements (such as grid connection agreements, share purchase Agreement).

4.7 Review of permits and licenses

- Review of permit documentation and identification of restrictions which could affect the successful operation of the Project.
- Support of the Legal Adviser in the assessment of technical issues (completeness of technical data, compliance with required standards, etc.) related to those licenses.

4.8 Module Tests (for operational plant)

Note that given the plant's operational status, modules would need to be tested on-site. Alternatively a spare stock may be used for laboratory testing (depending on availability)

- Review IEC Test Certificates.
- Perform a Gel Content Test to evaluate delamination risks on 2-4 modules per MW of installed capacity.
- Maximum power determination at STC according to IEC 60904-1:2006 and IEC 60904-3:2008 on 5 modules per thousand.
- Perform thermographic analysis.
- Recording of electroluminescence images for crack detection on 5 per thousand modules.
- Maximum power determination at 800 W/m² and NOCT according to IEC 61215:2005-10.6 on a sample of 7 modules.
- Maximum power determination at low irradiance 200 W/m² according to IEC 61215:2005-10.7 on a sample of 7 modules.
- Additional tests may be required in order to give increased confidence that the modules will perform well.
- The advisor will advise on which additional tests may be needed and review the test results.

4.9 Review of Financial Model Inputs

Review the technical assumptions used in the Project's financial model. The inputs to review will include:

- Solar resource assumptions
- Capital costs
- Operation and maintenance costs, including long term costs and contingencies
- Energy yield, losses and Performance Ratio assumptions
- Availability assumptions
- Design life assumptions
- Assumptions on the degradation of PV module performance
- Spare parts inventory cost
- Connection cost for electricity and Services

4.10 Credit Documentation

- Prepare a Due-diligence report incorporating above points, opining on whether PV system and project documents are acceptable to the bank;
- Review of all open technical issues to establish a list of conditions precedent and subsequent to funding.
- Assistance in respect of determining whether the above conditions have been satisfied, pre- or post- funding.

4.11 Ad-hoc Support

If required, WP can provide ongoing support to the Client that falls outside of the specific services described in the section above. Such additional support might include additional technical document reviews, additional meeting support, technical Q&A support, negotiation support and in house work shop style support. These services will be chargeable on a time and expenses basis.

Contacts

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