

Services Supporting Wind Energy in South Korea 2021



The business of sustainability



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Environmental Resource Management

Environmental Resources Management (ERM) is a leading global provider of environmental, health, safety, and sustainability (EHSS) consulting services. We have more than 160 offices in over 40 countries and territories, employing more than 5,000 people who work on projects around the world.

ERM is committed to providing a service that is consistent, professional, and of the highest quality, to create value for our clients. We have worked with many of the Global Fortune 500 companies delivering innovative solutions for business and selected government clients, helping them understand and manage the sustainability challenges that the world is increasingly facing.

ERM South Korea

The ERM South Korea's office in Seoul has an experienced team of specialist consultants dedicated to providing a full range of services to the power sector industries.

South Korea has seen a rapid increase on renewable energy projects, in particular offshore wind. Over the last few years, ERM participated to several site selection and pre-ESIA services for onshore and offshore wind projects, building experience, capacity and a vast environmental and social database.



40

countries and territories

5,000+

employees

50%

Of Global Fortune 500 served in past 3 years

\$983m

Gross revenues (FY19)

50

year history

160+

of Global Fortune 500 worked in past 3 years

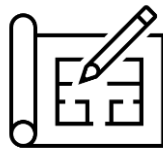
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ERM Support Throughout the Project

Project Site Screening

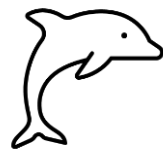
Environmental and
Social Due Diligence



Permit and Legal
Register

Construction Phase

EIA Tendering Process
Support



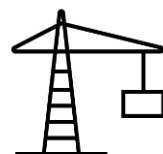
Communication with
Lenders

ESIA Report
Development



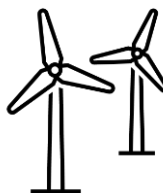
Stakeholder
Engagement

Development of
Management Plans



Operation Phase

EHS Capacity Building
& Training Program



E&S Performance
Monitoring



Other Support

Decommissioning

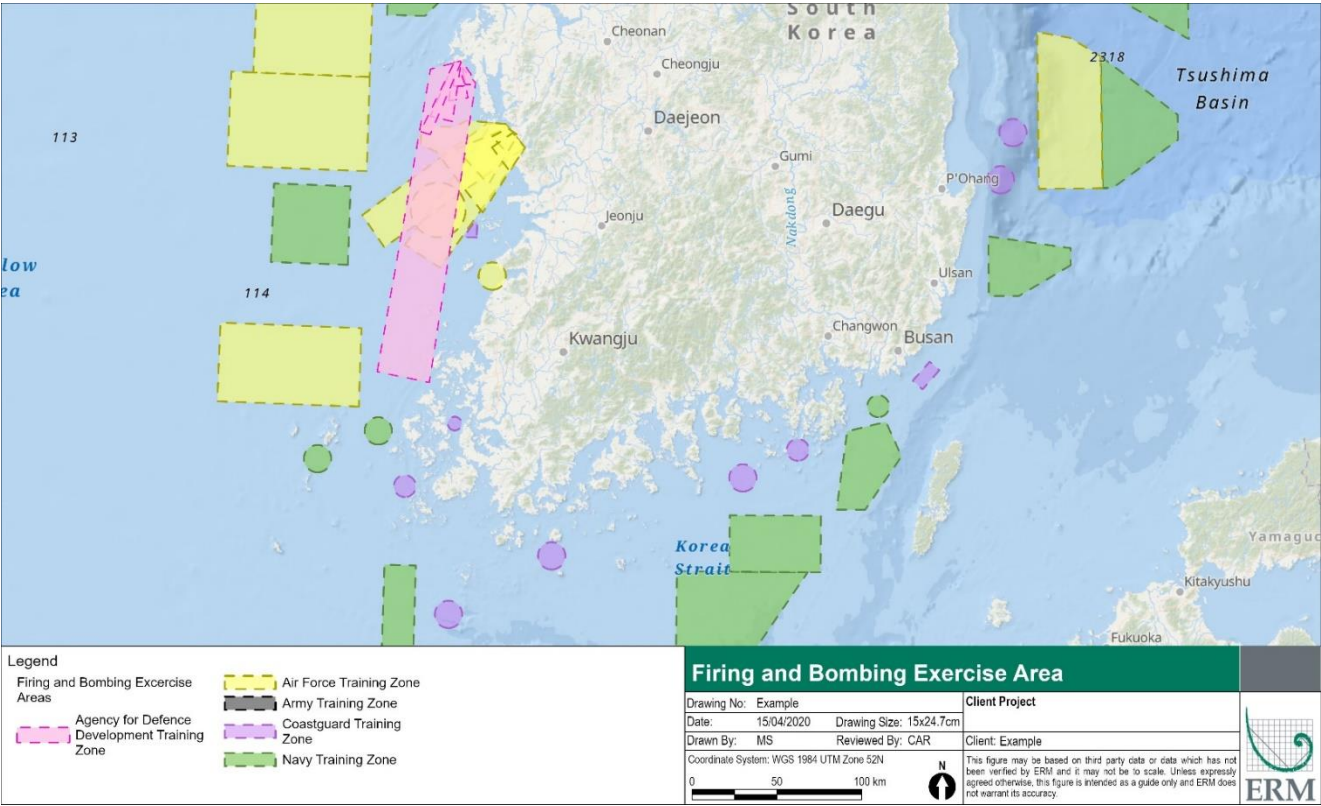
Project Site Screening

Constraint mapping techniques have long been used in site selection studies to bring together environmental, social, planning, and physical considerations into an overall assessment. This is achieved through the collation of layers of mapped information showing features and constraints to produce a multi-layered constraint map, which forms the basis for identification of any unconstrained areas.

Constraint mapping provides a means of taking account of physical incompatibilities and potentially damaging environmental and / or social impacts in a structured and rigorous way, particularly when the capabilities of GIS are utilised.

ERM has developed an extensive database of environmental and social baseline data for South Korea through our work supporting a number of onshore and offshore wind farm developments. Information on over 100 different features have been collected by ERM and grouped in seven (7) main categories:

- Military and Aerial Restricted Areas;
- Shipping and Vessel Operation;
- Protected Areas and Biodiversity;
- Fisheries;
- Cultural Heritage;
- Landscape and Recreational Areas;
- Other Physical Constraints.



Environmental and Social Due Diligence

Environmental and Social Due Diligence (ESDD)

Our due diligence services help clients enhance their mergers, acquisitions, and financing by ensuring that environmental, health, safety, and sustainability issues and opportunities are accurately disclosed and anticipated. This protects their bottom line by creating more transparency around their potential liabilities.

ERM has an unrivalled track record in supporting time-sensitive, multi-location due diligence efforts. We identify, quantify, and prioritize current, contingent, and future EHSS exposures. Using probabilistic modeling for large site or

portfolios with a large numbers of assets, we provide investors with realistic estimates around the cost, timing, and cash flow implications of potential liabilities. Our experience allows us to anticipate and proactively address issues before transaction timelines are impacted. ERM also identifies strengths and opportunities that can enhance the sales process and value of a divestment.

We believe that with our operations in South Korea with thorough understanding of local environmental regulatory status, challenges and trends, we are able to use this knowledge to assist our Clients to identify the liabilities and develop solutions that meet the needs.



Legal and Permit Register

Understanding the local permitting requirements for a development is essential to its success. With our depth of experience and extensive local team based in Seoul, ERM is able to provide support in understanding such requirements.

ERM can develop a project specific legal and permit register, and/or legal and permit register for wider operation within the whole of South Korea, and perform ongoing updates and advisory support on

EHS regulatory matters throughout the lifecycle of the Project.



Support on Tendering Process

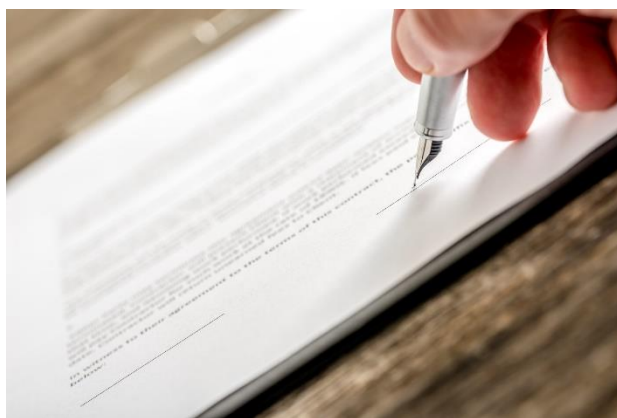
ERM South Korea focuses on international projects and, therefore, has decided not to acquire a national licence to conduct EIA. ERM, however, can provide local technical E&S support to our Clients in preparing the tender process for the selection of local regulatory EIA consultant.

ERM can develop Project tailored tender documents / requests for proposals based on our experience in the energy sector and our detailed knowledge Project knowledge acquired during the site Selection activities. ERM can then provide technical advisory during the bidding process including:

- Preparation of Local EIA Tender Documentation;
- Identification of Local EIA consultants;
- Reviewing Expressions of Interest and

supporting the shortlisting of interested parties;

- Technical Review of the submitted proposals with a focus on E&S capability, experience, and credentials;
- Technical review and support of the contracting process during clarifications; and
- Support during the interviews and final selection process.



Communication with Lenders

Early communication with lender groups is vital. ERM has built reputation and experience with the major international lenders through several national and international projects.

Additionally, ERM can support the Client in responding to lender's environment and social consultants during the Environment and Social Due Diligence (ESDD) process.



Stakeholder Engagement Plan

Stakeholder engagement is a determinant of the Project success or failure. In South Korea, the local requirements of the EIA laws are minimal and often result in a vague and disingenuous approach with limited transparency and/or lack of documentation/formal recording.

Increasingly in South Korea, the Ministry of Environment, Civil Society Organisations (CSOs) and Non-Governmental Organisations (NGOs), are demanding a higher degree of engagement, transparency, and disclosure.

Thanks to years of experience in performing Stakeholder Engagement, ERM can upgrade Local EIA engagement strategies and comply with international standards.

ERM can offer support with:

- Designing, managing and reviewing engagement processes;
- Developing stakeholder engagement strategies, policies and guidelines;
- Undertaking stakeholder profiling and

analysis exercises as well as developing and managing complex interactive stakeholder databases;

- Drafting and reviewing public disclosure and consultation plans;
- Providing project related personnel training in stakeholder engagement;
- Managing conflict and resolving disputes through mediation processes; and
- Designing, managing and facilitating a wide range of interactive activities and events.



ESIA Report Development

Korean Local EIA consultants have generally no experience with international ESIA. In particular, large scale wind development in Korea would present new challenges to the local consultant.

ERM can use its international experience to fill this gap and upgrade the local EIA to the selected Lenders Applicable Standards. ERM has an extensive Regional and Global pool of Subject Matter Experts (e.g. wind power specific knowledge, marine mammals, birds, fisheries, social impact assessment, cumulative impact assessment, etc.) that worked on wind projects.



Management Plans Development

The Korean *Environmental Impact Assessment Act* stipulates establishment of Post-EIA Monitoring Program. ERM can translate the commitments described in the EIA into detailed Construction/ Operation Environmental and Social Management Plans (CESMPs or OESMPs), which will ensure a clear and timely conduction of required mitigation measures and monitoring plans. Such Management Plans will meet the high standards of an international lender.

The plans will include performance monitoring mechanism and audit/inspection programs with corrective action procedure to ensure implementation of ESIA commitments and the continuous improvement of the environmental and social performance of the Projects.

In addition, ERM can provide:

- Technical advisory/review role in

forming the Engineering Procurement Construction (EPC) contract to ensure that all elements of the CESMP are captured

- Training of the plan to the Client and EPC personnel; and
- Performing external audit or environmental and social performance monitoring.



Other Support

ERM can provide support by placing a secondment of EHS expert(s) during the construction phase in order to ensure that all activities are performed according to the expectation of the Client, lenders, and stakeholders. The secondment will grant access to ERM's expert pool at a local level.



Continuous Support Throughout the Project Life Cycle

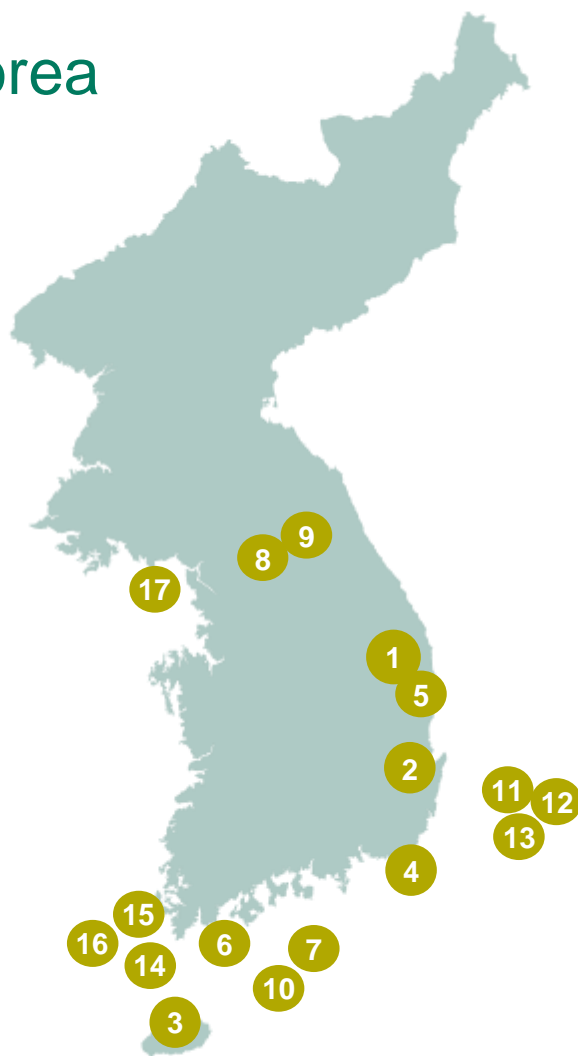
ERM will provide continuous support also during the operation and decommissioning phases of the project. Among several potential services, ERM can provide:

- E&S Performance Monitoring against the Client internal standards and international standards;
- EHS capacity building training program to the operators; and
- Support on preparation of decommissioning and associated impact assessment.

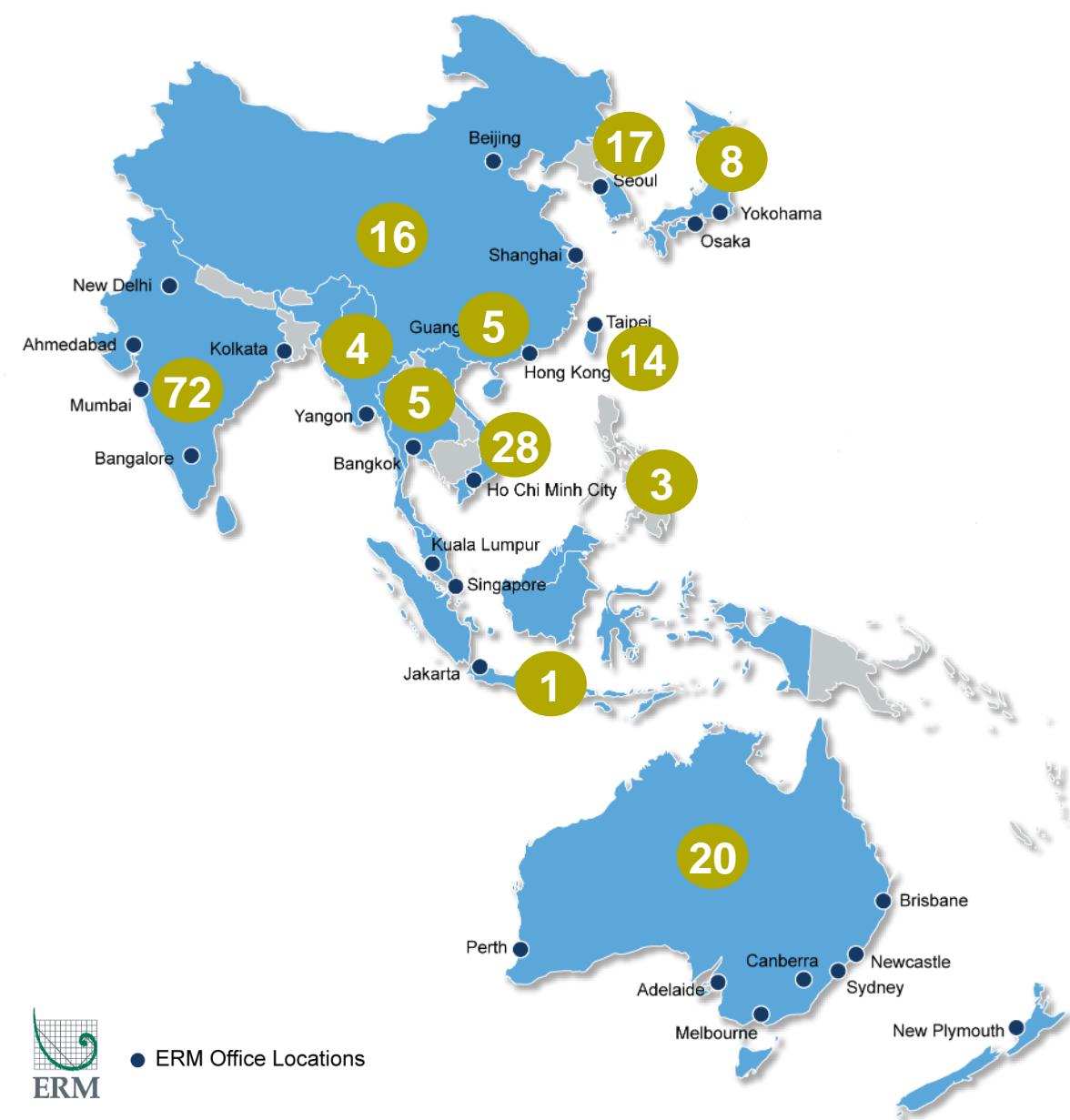


Experience in South Korea

1. GL Garrad Hassan – Environmental and Social Due Diligence (ESDD) on Yeong Yang Wind Farm Site (2002), ERM has conducted environmental and social due diligence on 60MW Yeong Yang Wind Farm Site against the Equator Principle.
2. Siemens Gamesa Renewable Energy (2018), ERM has developed a Legal Register in 2018 for the whole life cycle.
3. Vestas LR Development and EHS Audit (2000), ERM has developed a Legal Register and conducted EHS audits since 2000s.
4. Confidential Client (2018), ERM has performed an Environmental and Social Due Diligence (ESDD) with constraints study for a 40MW offshore wind farm development in Busan area.
5. Confidential Client (2019), ERM has performed an Environmental Red Flag Analysis for two (2) potential sites for onshore wind farm.
6. Confidential Client (2019), ERM has performed an Environmental Red Flag Analysis for a potential site for 500MW offshore wind farm in Jeollanam-Province, South Korea.
7. Confidential Client (2019), Environmental and Social Constraint Study of Southwestern Coast of South Korea for potential offshore wind farm developments.
8. Confidential Client (2019), ERM has performed an Environmental and Social Due Diligence (ESDD) for a 21MW onshore wind farm development at Gangwon-Province, South Korea.
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12. Confidential Client (2020), Site Selection study for three (3) potential sites and connection corridor for submarine cables on proposed floating offshore wind farm development in Ulsan area of South Korea.
13. Confidential Client (2020), Site Screening and a roadmap development for the Environmental Impact Assessment development for two (2) floating offshore wind farms and transmission cable connection in Ulsan area of South Korea.
14. Confidential Client (2020), Environmental and social screening and constraint study for entire southern coast of South Korea (including Jeju island).
15. Confidential Client (2020), Environmental and social screening and constraint study for two potential offshore development sites in South Jeolla Province
16. Confidential Client (2020), Environmental and social screening and constraint study potential offshore development in one area in South Jeolla Province
17. Confidential Client (2021), Environmental and Social Screening and Environmental Due Diligence for three potential sites for offshore development off Incheon coast.



Wind Projects in Asia-Pacific



Country	# of Projects	Country	# of Projects
Australia	20	Myanmar	4
China	16	Philippines	3
India	72	South Korea	17
Indonesia	1	Taiwan	14
Hong Kong	5	Thailand	5
Japan	8	Vietnam	28



For Further Information

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Environmental, Social, Health, Safety, and Sustainability Services to the Asia Pacific Power Industry

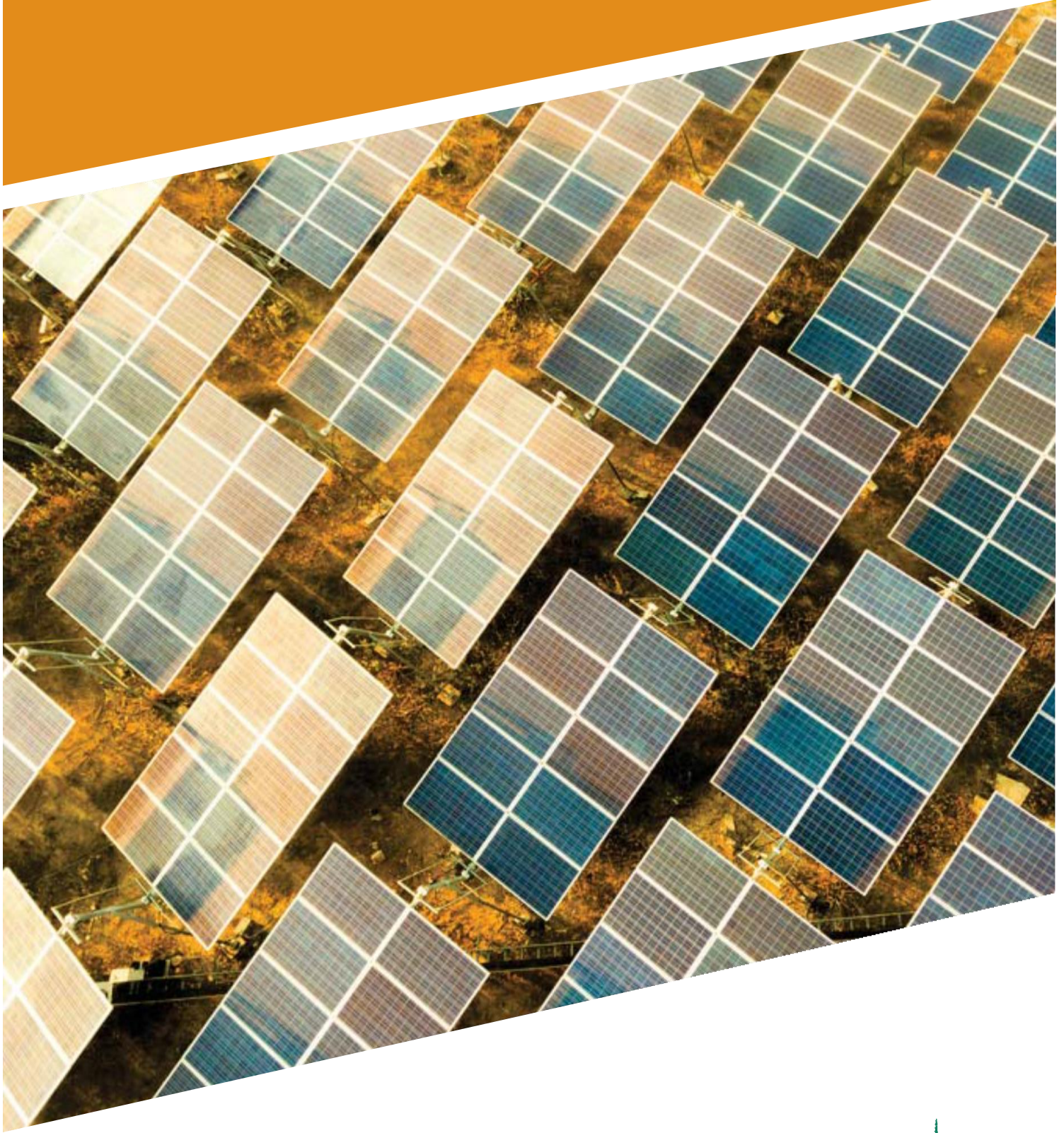
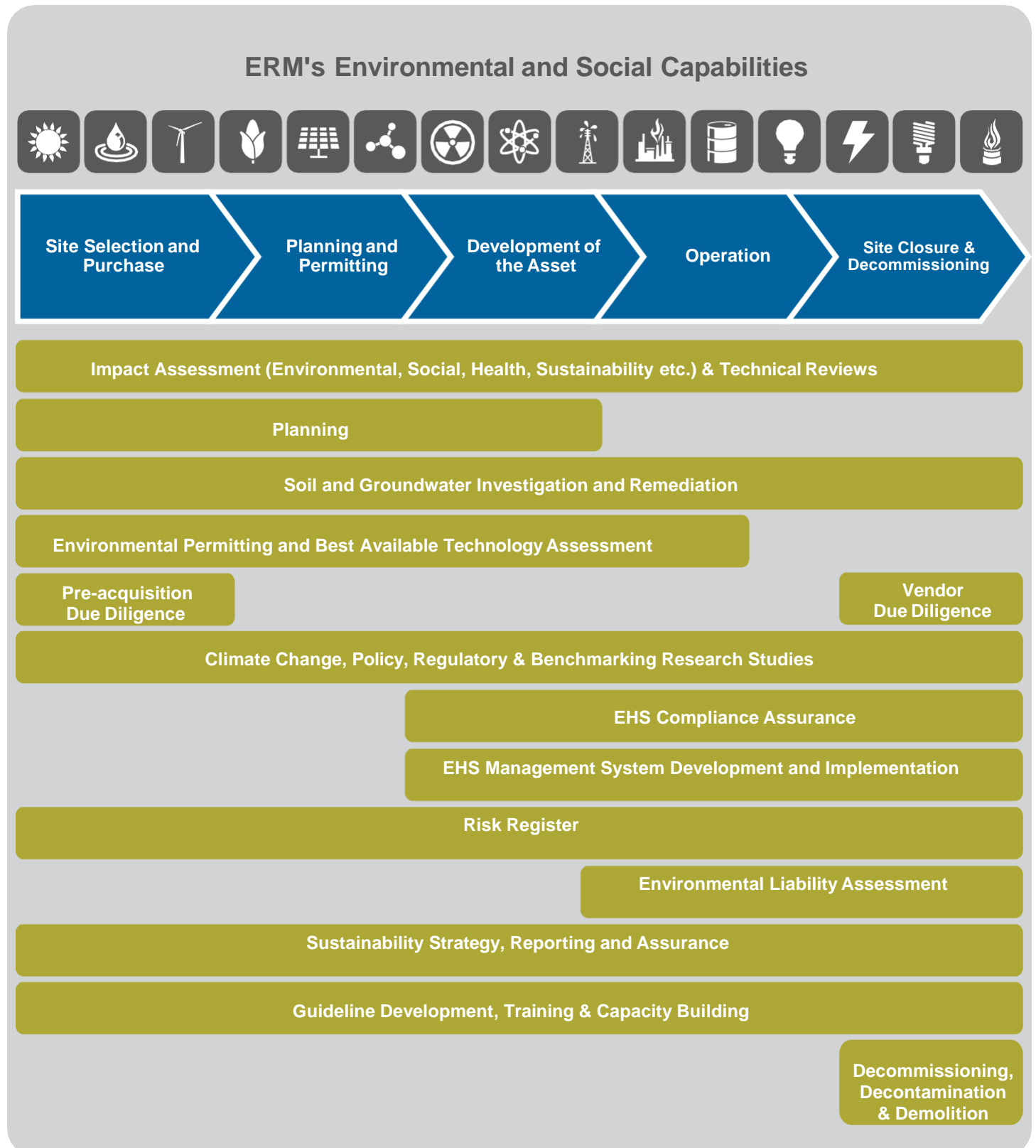


Table of Contents

ERM Services	2 - 5
Our Local Partners	6
Health and Safety – Our Core Value	7
ERM’s Safety and Process Risk Capabilities	8
ERM in Asia Pacific	9
ERM Country Experiences	
• South Korea	10
• Australia	11
• Bangladesh	12
• Cambodia	13
• China	14
• India	15 - 18
• Indonesia	19 – 20
• Japan	21
• Laos	22
• Myanmar	23
• Nepal	24
• Philippines	25
• Taiwan	26
• Thailand	27
• Vietnam	28 - 29



Managing the Safety, Process, Environmental and Social Risks is critical to Successful Project Development.



ERM provides a full range of services to the power sector



Corporate Sustainability & Climate Change

Partnering with leading organizations to address complex sustainability challenges, from climate change risk to human rights, by clarifying strategic direction, designing corporate programs, and enhancing transparency and the robustness of public disclosures.



Mergers & Acquisitions

Helping clients mitigate environmental, social and governance (ESG) and sustainability risks to maximize and protect value throughout their investment lifecycle by delivering insight-driven, commercially-focused due diligence.



Capital Project Delivery

Helping clients keep capital projects on schedule and on budget by mitigating environmental, safety, and social risks from conception to final investment decision, through operational handover and ongoing management.



Operational Performance

Helping global organizations mitigate risk, grow revenues, and manage costs by optimizing and transforming EHS functions to connect deeply to operations, integrating data-driven approaches, and delivering managed services.



EHS Management & Compliance

Working with every level in the organization to define, design, and deploy programs that achieve and sustain compliance, effectively manage EHS issues, and also control operational costs and reduce risks.



Liability Portfolio Management & Remediation

Managing risks through strategic approaches, digital applications and best-fit technical methods that identify, assess and manage environmental liabilities. Actively engage with clients to understand and respond to their specific and evolving needs and obligations through an end-to-end integration of site investigation, remediation, decommissioning and retirement.



Safety Services

Encouraging clients to move beyond traditional compliance and corrective programs so that they can maximize the return on their investments in safety - to safeguard lives, protect assets and strengthen reputation.



Digital Services

Helping business leaders achieve a step-change in EHS and sustainability performance through tech-enabled innovation. We deliver these business outcomes at pace and scale through the integration of our global network, exceptional subject matter expertise and deep digital capabilities.



Product Stewardship

Helping clients bring products to market safely, sustainably, and in compliance with global regulations, in a way that also meets their business goals and satisfies key stakeholders.



40

Countries



160

Offices

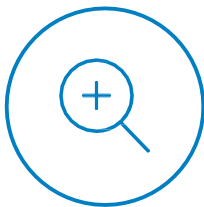


5,500

+

Staff

The greatest challenge facing the power sector is to meet societal needs to diversify and adopt changes in technology for the 21st century in a sustainable manner.



ERM considers the following issues to be particularly relevant to the power industry today:

- **Plant safety** – accidents/incidents prevention, behavioral safety, safety culture development, and improved safety performance, particularly of contractors
- The increased commercial competitiveness and societal acceptance of renewable energy technologies
- **Emergence of integrated CCGT/FSRU** projects and associated environmental, social and process risks
- Investor withdrawal from coal technology and the impact this has on power sector development planning and financing
- **Permitting of new development projects** and approvals of environmental, social and health impact assessments in Asia and their potential impact on project development timeframes
- **Stakeholder engagement, land acquisition and resettlement** implications for project financing
- **Climate change developments** – implications of the latest guidelines / COP 21 outcomes and potential impacts on new project financial returns



Carbon reduction commitments and the looming retirement of older assets are creating major opportunities for the energy and power sectors.



Our capabilities include:

- Environmental and Social Impact Assessment
- Transmission and Distribution Studies
- Climate Change Adaptation and Carbon Credits
- Sustainability Assessments
- Risk Management
- De-contamination, Decommissioning and Demolition
- Health and Safety
- Regulatory and Permitting Advice
- Terrestrial Biodiversity
- Marine and Coastal Surveys
- Community Liaison
- Stakeholder Engagement
- Public/community Consultation and Disclosure
- Resettlement
- Pipeline Routing Studies
- Atmospheric Dispersion Modelling
- Aquatic Discharge Modelling
- Site Investigation and Remediation
- Environmental Management Planning
- Oil Spill Contingency Planning
- Monitoring Plans
- Understanding the new OECD guidelines for coal fired power plant financing



Our Local Partners



Through our extensive experience we have identified trusted local partners globally with local language and cultural skills to provide specialist services and in-country technical support, these include ecological and environmental baseline monitoring, physical / chemical sampling and laboratory analysis and stakeholder consultation and engagement.

ERM's specialists in the Asia-Pacific Region can be mobilised to oversee, supervise, execute and support work, thereby managing HSE considerations in-country; providing experienced manpower for baseline surveys and stakeholder consultation; coordinating international shipment of samples and laboratory analysis, if needed; and, providing a one-stop service for strategic planning and permitting with understanding of reputational risk management.



Health and Safety — Our Core Value



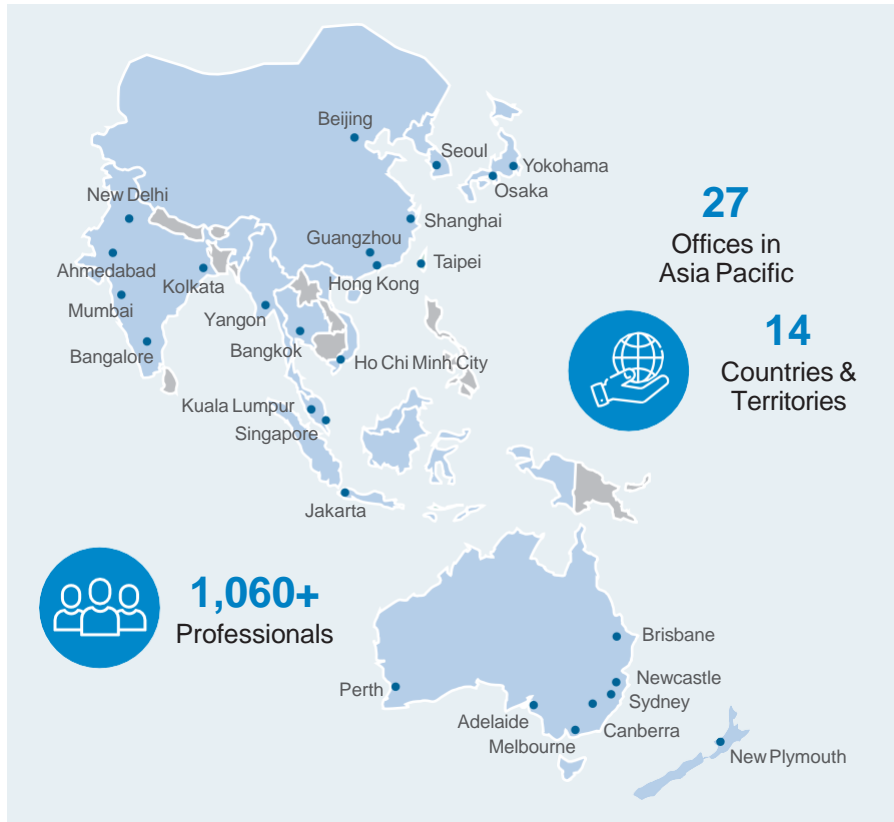
ERM places the highest priority on the health and safety of its employees, business associates and the community. We continually strive to improve our safety culture, which is built upon the simple mantra "You See It. You Own It. You Share it". Our goal is to have zero accidents in our operations. We believe that a sustainable path to world-class safety performance is one where safe behaviours are engrained in the actions and decisions of our people. We have made significant investments in our behaviour-based safety programme and safety information systems. These investments, coupled with the ongoing efforts of our people worldwide, help us reach that goal.



ERM's Safety and Process Risk Capabilities



ERM in Asia Pacific



ERM is a leading global provider of environmental, health, safety, risk and social consulting services and sustainability related services to various sectors including the Power Sector. ERM has abundant project experience across all power generation sources including thermal, hydro, wind, solar and geothermal in Asia and internationally. Our 40 years of experience of developing tailored client solutions has placed ERM as a market leader in sustainability consulting for the power sector. We support our clients at all stages of the asset life cycle including initial site searches and feasibility assessments, baseline environmental monitoring, environmental and social impact assessment for project permitting and financing, environmental and safety plans for construction, development of environmental and safety systems for operations, environmental, safety and process safety audits of generating plants, contaminated land assessment and end of life decontamination and demolition.

ERM Asia Pacific region comprises of 27 ERM offices across 14 countries. The region is sub-categorized into 4 Divisions namely Australia and New Zealand, India, North Asia and Southeast Asia with over 1000 best-in-class professionals. Strategically located in the world's fastest growing region, ERM Asia Pacific teams work seamlessly together to deliver innovative and cost-effective solutions across different geographies including frontier countries like Myanmar. For key sectors like Oil & Gas (upstream, midstream and downstream), Power (thermal and renewables), Finance, Mining, Manufacturing, Chemical, and Pharmaceutical sectors, ERM Asia Pacific serves as Centre of Excellence for delivering innovative and cost-effective solutions to business critical sustainability challenges faced by clients across their asset lifecycles.

As one of the largest consultancies in the region - we are committed to creating value, managing risk, and building reputation for our clients by delivering strategic and technical solutions in the business context. We combine global capability with a detailed, local regulatory and cultural understanding to allow us to provide world-class technical expertise and geographical proximity in delivering our solutions. This includes working for regional clients investing in projects in Asia and for Asian clients developing projects or working as in Engineering, Procurement, and Construction (EPC) in the Middle East, Africa, Europe, US and South America.

Country maps showing our extensive experience are available.

Korea

ERM's Selected Renewables Power Project Experience

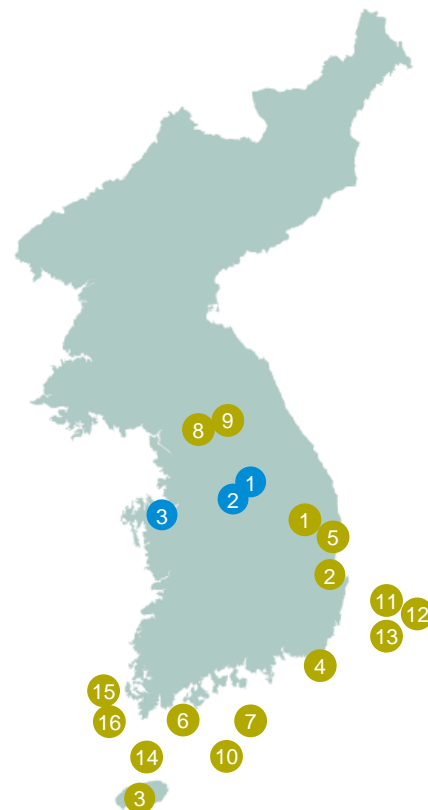


Solar

1. Gugok PV Plant #1 and #2 Phase I EHSSDD (2017), Environmental, health and safety, and social due diligence on two (2) PV plants with 4MW power generation capacity that are situated in Bongyang-eup, Jecheon-si, Chungcheongbuk-do for a confidential private investment bank
2. Geosan PV Plant Phase I EHSSDD (2017), Environmental, health and safety, and social due diligence on a plant with 3MW power generation capacity that is situated in Geosan-Gun, Chungcheongbuk-do for a confidential private investment bank
3. Dangjin PV Plant Phase I EHSSDD (2017), Environmental, health and safety, and social due diligence on a plant with 9MW power generation capacity that is situated in Dangjin-si, Chungcheongnam-do for a confidential private investment bank

Wind

1. GL Garrad Hassan ESDD on Yeong Yang Wind Farm Site (2002), ERM has conducted environmental and social due diligence on 60MW Yeong Yang Wind Farm Site against the Equator Principle.
2. Siemens Gamesa Renewable Energy (2018), ERM has developed a Legal Register in 2018 for the whole life cycle
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6. Confidential Client (2019), ERM has performed an Environmental Red Flag Analysis for a potential site for 500MW offshore wind farm in South Jeolla Province, South Korea.
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11. Confidential Client (2019), Environmental and social screening of potential constraints and Red Flag Analysis of three (3) proposed locations for 1.5GW floating offshore wind farm development in Ulsan area of South Korea.
12. Confidential Client (2020), Site Selection study for three (3) potential sites (200MW) and connection corridor for submarine cables on proposed floating offshore wind farm development in Ulsan area of South Korea.
13. Confidential Client (2020), Site Screening and a roadmap development for the Environmental Impact Assessment development for a 200MW floating offshore wind farm and transmission cable connection in Ulsan area of South Korea.
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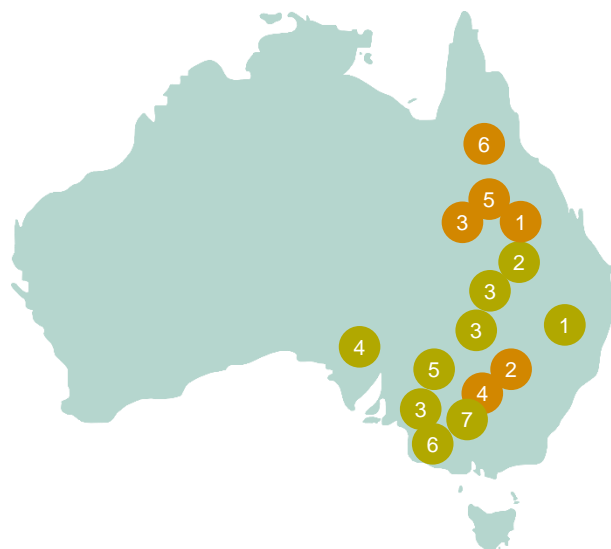
Australia

ERM's Selected Renewables Power Project Experience



Solar

- 1. BioSar**
ERM provided assistance with planning and environmental permitting associated with the construction of a number of solar power facilities in Central Queensland.
- 2. Bonshaw Solar Farm, Gaia, Northern NSW**
ERM is preparing an Environmental Impact Statement for a 500 MW Solar Farm with back up battery storage. Approval is anticipated in early 2019.
- 3. Oakey Solar Farm, Canadian Solar, Queensland**
ERM undertook a referral to the Federal Government (Department of the Environment and Energy) under the Environment Protection and Biodiversity Conservation Act 1999.
- 4. Moree Solar Project, Confidential Client. New South Wales**
Regulatory and environmental advice for the Moree Solar Project, 10 km south of Moree, New South Wales
- 5. Lilyvale II Solar Farm, FRV Services Australia Pty Ltd, Queensland**
Development application for the 100 MW solar facility for FRV in Tieri, Queensland. The scope included a biodiversity assessment, glare and visual assessment and management of the permitting and approval process.
- 6. Bowen and Bluff Solar Farms, Infigen Energy, Queensland**
Development application and environmental assessment of the proposed 150 MW Bluff Solar Farm near Bluff and the 100 MW Bowen Site in Queensland. Both projects include battery storage components.
- 7. Winton Solar Farm, FRV Services Australia Pty Ltd, Victoria**
Planning approval for a 85 MW solar farm located in Winton, Victoria. Approval was sought for the use and development of the solar farm, ancillary buildings and works, and the removal of native vegetation. Works also included the discharge of permit conditions to ensure compliance of the solar farm with the requirements of the planning permit during the construction and operation of the solar farm by preparing the required environmental management plans.



- 3. Dundonnell Wind Farm, Victoria**
As part of the planning and environmental approvals, ERM work closely with the State and Commonwealth environmental authorities in obtaining the required approvals.
- 4. Waterloo Wind Farm, South Australia**
Compliance Review of approval conditions for the wind farm in Waterloo, South Australia.
- 5. Stockyard Hill Wind Farm, Victoria**
Planning Permit Application for the proposed development of 242 turbines for the, 35 km west of Ballarat, Victoria. ERM also coordinated approvals, the visual impact assessment, assisted in the Planning Panel process including providing expert evidence.
- 6. Berrybank Wind Farm, Victoria**
Planning Permit Application to amend the planning permit associated with Berrybank Wind Farm (79 turbines) to increase the turbine heights from 131 metres to 180 metres and reduce the total number of turbines (amongst other things). Works included EPBC referrals and the discharge of permit conditions by way of preparing environmental management plans to be approved by the Minister for Planning.

Wind

- 1. White Rock Wind Farm, New South Wales**
ERM was involved in the preparation of the Construction EMP for the White Rock Wind Farm.
- 2. Barwon Heads, Lorne, Apollo Bay, Port Campbell, Warrnambool and Port Fairy Wind Farms, Victoria**
ERM provided certification of Safety Management Plans & EMPs for various wind farm locations across Victoria.

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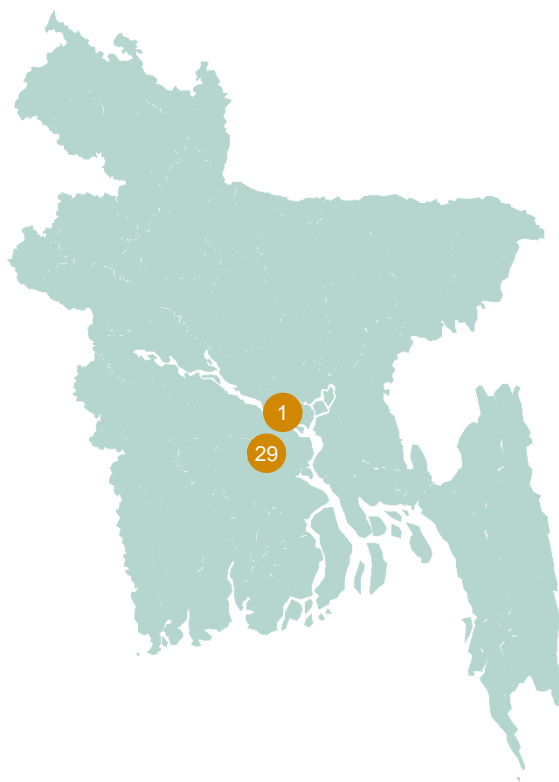
Bangladesh

ERM's Selected Renewables Power Project Experience



Solar

1. **ESIA of a 50 MW Solar Power Project**, Panchagarh for 8minute energy Bangladesh
2. **E&S Screening and Flood Risk Evaluation of a proposed solar PV project** for Scatec Solar, Bangladesh, Nov 2017



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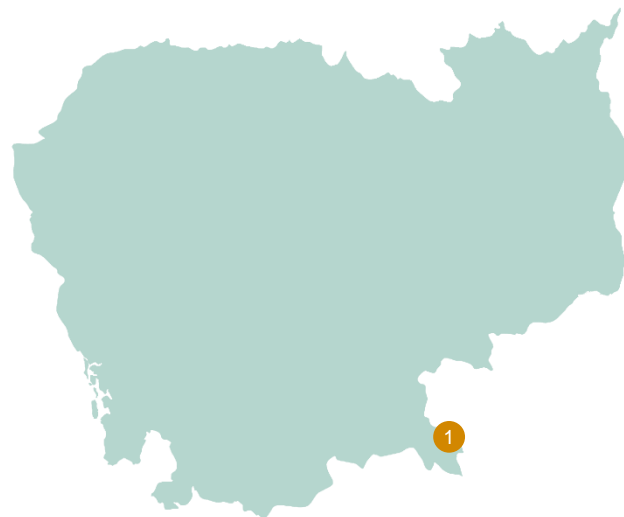
Cambodia

ERM's Selected Renewables Power Project Experience



Solar

1. Initial Environmental and Social Examination (IESE) for a Solar Farm Project funded by ADB in Cambodia, 2016. Prepare an IESE for the first utility-scale power project in Cambodia with capacity of 12MW to support the Project Sponsors' application for finance from the ADB.



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China

ERM's Selected Renewables Power Project Experience



Wind

- 1. Environmental Site Assessment (ESA) – Wind Farm Project – Hebei Province**
Site covered an area of approximately 200 km².
- 2. Environmental and Social Impact Assessment (ESIA) – Wind Farm Project – Inner Mongolia**
In accordance with IFC Performance Standards (PSs). Key issues were legacy land administration issues from a neighbouring developer and the potential for impacts to birdlife.
- 3. ESIA – Wind Farm Project – Liaoning Province**
In accordance with IFC PSs.
- 4. Environmental and Social Due Diligence (ESDD) – 200 MW Wind Farm Project – Jiangsu Province**
In accordance with Chinese legislation and IFC PSs.
- 5. Bird Survey – Wind Farm Project**
Assessed the risk of impacts to birdlife and conservation significance. Worked with a local bird specialists. Survey method in accordance with Australian Wind Energy Association (AusWind) Guidelines.
- 6. ESDD – Wind Farm Project – Inner Mongolia**
- 7. ESDD – 50 MW Wind Farm Project – Jilin Province**
In accordance with Chinese legislation and IFC PSs.
- 8. Social Impact Assessment (SIA) – 200 MW Wind Farm Project – Jilin Province**
- 9. ESDD – 7 Wind Farm Projects – Jilin Province**
- 10. ESDD – Wind Farm Project – Fujian Province**
In accordance with Equator Principles.
- 11. ESDD – Wind Farm Project – Shanxi Province**
In accordance with Equator Principles.



Solar

- 1. ESDD – 10 Solar Projects – Sichuan, Shanxi, Jiangsu and Inner Mongolia**
- 2. Environmental Impact Assessments (EIAs) – 3 Solar Projects – Shanghai**
- 3. ESDD – 4 Solar Projects – Shandong and Ningxia Province**
- 4. ESDD – Solar Projects – Hebei Province**
- 5. Work Health, Safety and Environmental (WHSE) Due Diligence for 4 Rooftop Solar Projects, Fujian and Jiangsu Provinces**
- 6. ESDD – 5 Solar Projects – Shandong, Zhejiang and Jiangsu**
In accordance with Chinese legislation and IFC PSs.

Hydro

- 1. World Commission on Dams Assessments – 30 Hydropower Projects (all over 20 MW) – Multiple Chinese Provinces**
Environmental and social (resettlement) review for projects applying for Clean Development Mechanism (CDM) funding.
- 2. Environmental and Social Management Systems (ESMS) – Hydropower Project – Guizhou Province**
In accordance with IFC PSs.
- 3. ESDD – 4 Hydropower Projects – Hubei Province, Chongqing and Hunan**
- 4. ESDD – 25 Hydropower Projects – Yunnan Province, Zhejiang and Fujian**

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India

ERM's Selected Renewables Power Project Experience



Wind

1. Environmental and Social Impact Assessment (ESIA) – 197 MW Wind Farm Project – Andhra Pradesh State
2. ESIA – 200 MW Wind Farm Project – Madhya Pradesh State
3. ESIA – 100 MW Wind Farm Project – Gujarat State
4. ESIA – 100 MW Wind Farm Project – Madhya Pradesh State
5. ESIA – 30 MW Wind Farm Project – Maharashtra State
6. ESIA – 3 Wind Farm Project – Madhya Pradesh State
7. ESIA and Bird and Bat Monitoring – 50 MW Wind Farm Project – Karnataka State
8. ESIA – 50 MW Wind Farm Project – Rajasthan State
9. ESIA – 7 Operational Wind Farm Project – Gujarat, Maharashtra and Karnataka States
10. ESIA – 126 MW Wind Farm Project – Rajasthan State
11. ESIA – 50 MW Wind Farm Project – Karnataka State
12. ESIA – 100 MW Wind Farm Project – Madhya Pradesh State
13. ESIA – 154 MW Wind Farm Project – Andhra Pradesh State
14. Environmental and Social Due Diligence (ESDD) & ESIA and Bird and Bat Monitoring – Wind Farm Project – Maharashtra State
15. ESIA and Bird and Bat Monitoring – Wind Farm Project – Maharashtra State
16. Initial Environmental Examination (IEE) – 50 MW Wind Farm Project – Pakistan
17. Initial Environmental Examination (IEE) – 50 MW Wind Farm Project – Pakistan
18. Independent ESDD – 26 MW Wind Farm Project – Karnataka State
In accordance with IFC PSs.
19. ESDD and Bird and Bat Monitoring – 33 MW Wind Farm Project – Madhya Pradesh State
20. ESDD – Wind Farm and Hydropower Projects – Maharashtra State
In accordance with IFC PSs.
21. ESIA study – 2 Wind Power Projects
22. Bird and Bat monitoring and Noise and shadow flicker assessment – Karnataka State
23. Environmental Studies for 2 Wind Power Projects – Madhya Pradesh State
24. EIA Scoping Study – 200 MW Wind Farm Project – Gujarat State
25. ESIA Study – 250 MW Wind Power Project – Tamil Nadu State
26. Bird and Bat, Noise and shadow flicker assessment study for 120 MW wind power Project – Karnataka and Gujarat State
27. ESIA Study – 250 MW Wind Power – Gujarat State
28. ESIA study of 2 Wind Power – India
29. ESIA – 197.5 MW Wind Power – Gujarat state
30. ESMP for an upcoming wind farm – Andhra Pradesh State
31. ESDD – 25 MW wind power project – Andhra Pradesh State
32. ESDD – 23 MW wind power project – Karnataka State
33. Updation of ESIA report – windfarm project – India
34. ESIA – 108 MW wind farm project – Madhya Pradesh State
35. ESIA – 100 MW wind farm project – Gujarat State
ESIA was also done for 4 other similar sites

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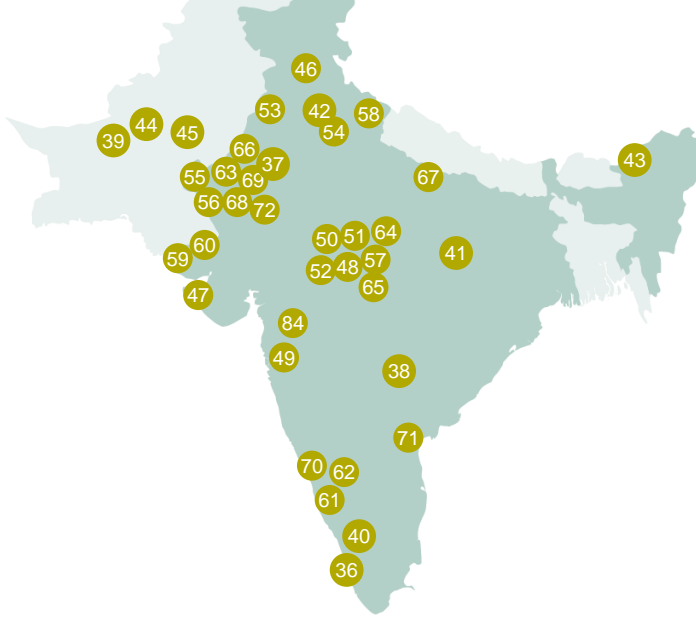
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India

ERM's Selected Renewables Power Project Experience



Wind

- 
- 36. E&S Screening and Scoping of a Greenfield – 250 MW Wind Power Project – Tamil Nadu State
 - 37. E&S Risk Identification and ESIA – 30 MW Wind Farm project – Madhya Pradesh State
 - 38. ESMP, ESIA and ESDD – Wind Power project – Andhra Pradesh State
 - 39. ESDD – 300 MW Wind Farms – Rajasthan State
 - 40. ESIA study of 200 MW Kayathar Wind Farm – Tamil Nadu State
 - 41. ESIA study – Wind farm
 - 42. India-Birds and Bat Monitoring – 126 MW wind project – Uttar Pradesh State
 - 43. QRA – wind turbine
 - 44. Collision Monitoring – Wind farm – Madhya Pradesh and Rajasthan State
 - 45. Long Term Bird and Bat Studies – 50.4 MW Wind Project – Rajasthan and Madhya Pradesh State
The study was conducted for 3 sites in Rajasthan and 2 sites at Madhya Pradesh
 - 46. ESIA, ESMS Gap Assessment and Audit – two wind energy projects
 - 47. EIA – 40 MW Wind power Project – Gujarat State
 - 48. ESIA Study – 50 MW Wind Power Project – Madhya Pradesh
 - 49. ESIA study – 100 MW Wind Power Project – Maharashtra State
 - 50. ESIA – 100.5 MW wind power project – Madhya Pradesh State
 - 51. ESIA – 100 MW wind farm project – Madhya Pradesh State
 - 52. ESIA – two Wind Farm Projects – Madhya Pradesh State
 - 53. Strategic ESDD of Four Renewable Energy Projects – India
 - 54. Environment and Social Impact Assessment – 60 MW wind farm project
 - 55. ESIA for 50 MW Wind Project – Rajasthan State
 - 56. ESIA of 50.4 MW wind farm project – Rajasthan State
 - 57. ESDD and ESIA – 100 MW wind project – Madhya Pradesh State
 - 58. Bird Monitoring – 80 MW wind farm project
 - 59. ESIA – 50 MW Wind Power Project – Gujarat State
 - 60. ESIA – 50 MW Wind Power Project – Gujarat State
 - 61. ESIA – 60 MW Wind Power Project – Karnataka State
 - 62. ESIA – 50 MW Wind Power Project – Karnataka State
 - 63. ESIA – 30 MW Dangri II Wind Power Project – Rajasthan State
 - 64. ESIA study – 40 MW Wind Power Project – Madhya Pradesh State
 - 65. ESIA study – 100.3 MW Wind Power Project – Madhya Pradesh State
 - 66. ESIA Study – 50 MW Wind Power Project – Rajasthan State
 - 67. Rapid Assessment – 6 Operational Wind Power Projects
 - 68. ESIA – wind power project – Rajasthan state
 - 69. ESIA study – 100 MW Wind Power Project – Rajasthan State
 - 70. ESIA Study – 50 MW Wind Power Project – Karnataka State
 - 71. Environmental & Social Impact Assessment – 226.8 MW Wind Farm Project – Andhra Pradesh
 - 72. ESIA – 126 MW windfarm project – Rajasthan State

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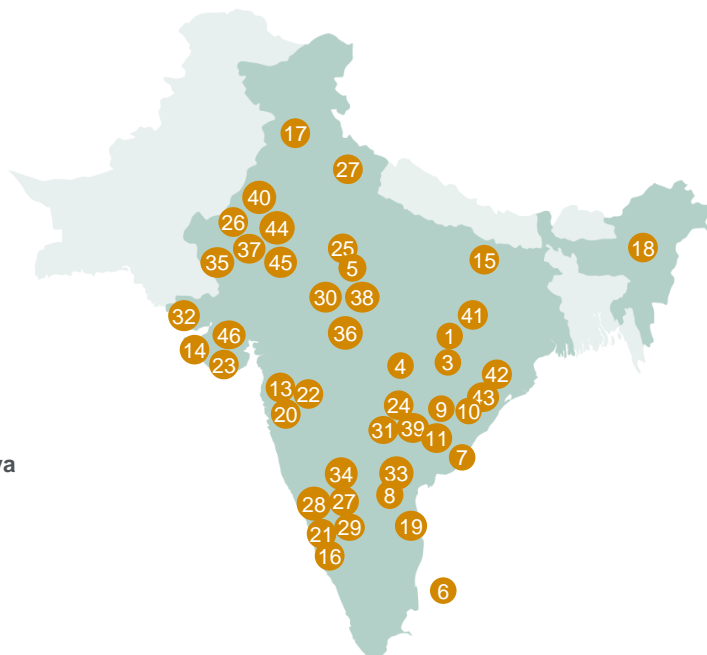
India

ERM's Selected Renewables Power Project Experience



Solar

1. ESIA – Solar Project – Madhya Pradesh State
2. Environment, Health, Safety (EHS) and Labour Audit – 40 MW Solar Project – Rajasthan State
3. ESIA – 50 MW Solar Project – Madhya Pradesh State
4. ESIA – 50 MW Solar Project – Madhya Pradesh State
5. ESIA – 30 MW Solar Project – Rajasthan State
6. ESIA – 5 MW Solar Project – Tamil Nadu State
7. ESDD – 25 MW Solar Project – Andhra Pradesh State
8. IEE Study – 6 Solar Power Projects (20 MW each) – Karnataka State
9. ESIA – 40 and 30 MW Solar Projects – Telangana and Madhya Pradesh States
10. ESDD – 3 (total 550 MW) Solar Projects – Telangana, Madhya Pradesh and Karnataka States
11. ESDD – 250 MW Solar Projects – Madhya Pradesh and Andhra Pradesh States
12. ESDD – Solar Energy Park – Maharashtra State
13. ESIA Study – 100 MW Solar Power Project – Maharashtra State
14. ESDD – 260 MW Solar Power Project – Gujarat State
15. Compliance Audit for 30 Solar Photo Voltaic (PV) sites in Uttar Pradesh and Bihar
16. Environmental and Social Due Diligence of a 30 MW solar power project site – Karnataka State
17. ESDD for 20MW Operational Solar Power Project – India
18. ESDD – 130MW solar power
19. ESIA Solar – Andhra Pradesh State
ESIA of 50.6mw Solar power project at Chinnampalli in Anantapur District and 50.6 MW solar power project at Betamcharla in Kurnool District and at 6 other locations which includes wind as well as solar sites
20. Sustainability Screening & EHS DD – Solar power project – Maharashtra State
21. ESDD – proposed 750 MW Solar PV Project – Karnataka State
22. ESDD – Solar – Maharashtra State
23. ESDD – 150 MW Solar Park Project – Gujarat State
24. ESDD – Solar power project – Telangana and Andhra Pradesh State
25. Environmental review of renewable energy services project – India
26. ESDD – Solar Power Projects – Arunachal Pradesh and Rajasthan State
27. ESDD for Solar Platform
28. IEE study – two 20 MW Solar PV Projects – Karnataka State
29. IEE Study – 6 Solar Power Projects (20 MW each) – Karnataka State
30. ESIA – solar project – Madhya Pradesh state
31. ESIA – 100 MW solar project – Telangana State
32. ESDD – two solar plants – Gujarat and Rajasthan State
33. ESIA Study – 24 MW Solar Power Project – Andhra Pradesh (30 MW) and Telangana (24 MW)
34. ESIA for 38 MW solar power Project in Tumkuru, Karnataka
35. ESIA Study – 30 MW Solar Power Project – Rajasthan State
36. ESIA study – Solar Project – Madhya Pradesh State
37. ESIA Scoping Study – 30 MW Solar Power Project – Rajasthan State
38. ESIA study – Solar Project – Madhya Pradesh State
39. ESDD – Solar Project – Telangana and Karnataka States
It consists of 25 MW operational solar power assets and 19 MW planned/ underconstruction assest of a company,
40. ESIA Scoping Study – 30 MW Solar Power Project – Rajasthan State
41. ESDD – 40 MW solar power project.
42. Solar E&S Scoping Study – Odisha State (Solar)
43. Solar E&S Scoping Study – Odisha State (Solar)
44. ESIA – 10 MW Solar Project – Rajasthan State
45. ESIA – 30 MW Solar Project – Rajasthan State
46. ESDD – 2 Operational Solar Projects – Gujarat and Rajasthan States



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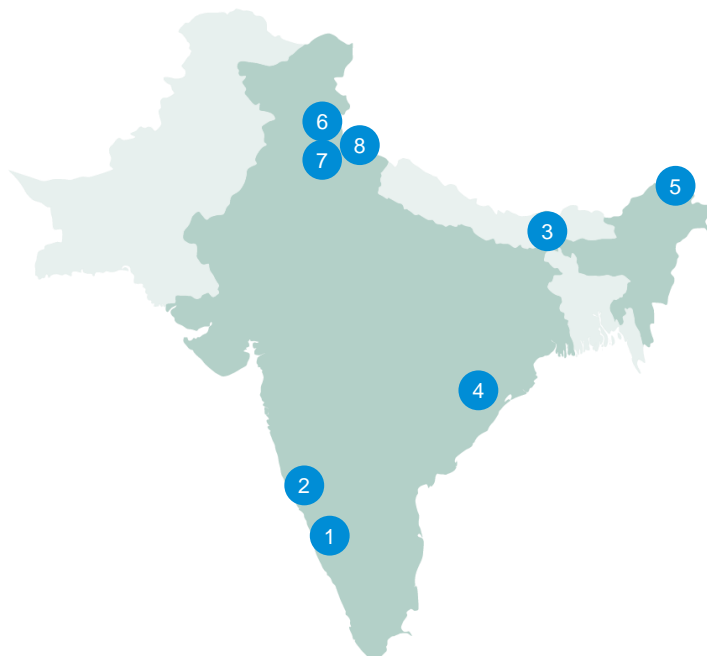
India

ERM's Selected Renewables Power Project Experience



Hydro

1. ESDD – 7 Small Hydropower Projects – Karnataka State
2. ESDD – 3 Hydropower (Canal) Projects – Karnataka State
3. ESDD – Small Hydropower Projects – Himachal Pradesh and Sikkim States
In accordance with IFC PSs.
4. Environmental and Social Scoping Study – proposed 600 MW Pumped Storage Hydropower Plant – Odisha State
5. ESG and Human Rights Screening – Hydro sector – Arunachal Pradesh State
6. ESDD – 5 Hydro Power Assets – Himachal Pradesh State
7. ESDD – 5 Hydro Power Assets – Himachal Pradesh State
8. EHSS review – two hydroelectric projects – Himachal Pradesh State



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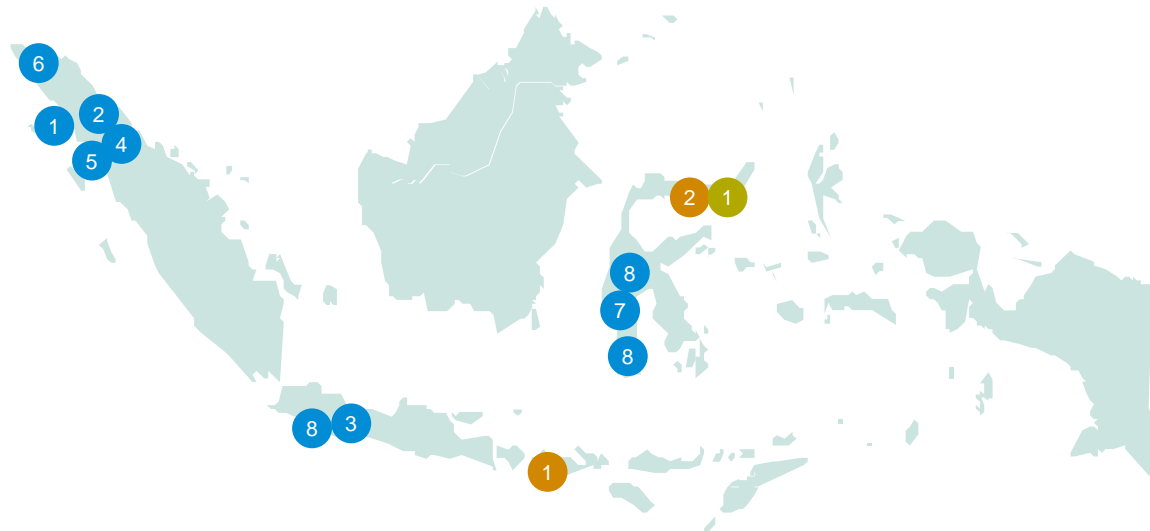
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Indonesia

ERM's Selected Renewables Power Project Experience



Hydro

- 1. Resettlement Action Plan (RAP) – 42 MW Hydropower Project – North Sumatera**
In accordance with World Bank Safeguards.
- 2. ESHIA – 500 MW Hydropower Plant & 275 kV Transmission Line – North Sumatera**
In accordance with IFC Performance Standards.
- 3. ESDD – Small Hydropower Project – West Java**
In accordance with Indonesia Environment and Social Regulations.
- 4. Implementation of ESMP– 500 MW Hydropower Plant – North Sumatera**
Assisted Client to implement ESMP particularly during initial construction phase.
- 5. Biodiversity Action Plan – 500 MW Hydropower Plant – North Sumatera**
In accordance with IFC Performance Standards 6.
- 6. Abbreviated Resettlement Action Plan – 45MW Hydroelectric Power Plant – Aceh**
In accordance with Operation Manual O.P. 4.12 of the World Bank.
- 7. ESIA – 130MW Hydropower – West and South Sulawesi**
In accordance with IFC Performance Standards.
- 8. ESDD – 4 Mini Hydro Power – West Java, Central Sulawesi, and South Sulawesi**
Audit to 4 mini hydro power in total of 37MW in accordance with IFC Performance Standards.
- 9. ESDD – Two Run of River Hydropower**
In accordance with IFC Performance Standards.

Solar

- 1. ESHIA – Solar Plant Development – Nusa Tenggara Barat**
In accordance with IFC Performance Standards.
- 2. ESHIA – 25MW Solar Plant Development – North Sulawesi**
In accordance with ADB SPS and IFC Performance Standards.

Wind

- 1. AMDAL-ESHIA – Bitung Wind Power – North Sulawesi**
AMDAL and ESHIA preliminary study of 30MW wind power project.

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Indonesia

ERM's Selected Renewables Power Project Experience



Geothermal

- 1. AMDAL – 330 MW Geothermal Power Plant – North Sumatra**
Environmental impact assessment in accordance with Indonesia Regulation and best practices.
- 2. ESDD – Geothermal Expansion Flores – East Nusa Tenggara**
In accordance with World Bank Standards.
- 3. UKL UPL & Environmental Baseline Survey – 55 MW Geothermal Exploration – Lampung**
Prepared monitoring and management plan and conducted environmental baseline survey as well in accordance with Indonesia Regulation.
- 4. Legal Register – 55 MW Geothermal Exploration – Lampung**
Prepared environmental, health, and safety legal register of the applicable Indonesia Regulation.
- 5. UKL UPL, AMDAL/ESHIA Addendum – 240MW Geothermal Exploration – North Sumatera**
UKL-UPL for Area 3&4, separate UKL-UPL for transmission line, and AMDAL for full field development and ESHIA Addendum.
- 6. Preparation and Implementation of RKL RPL – 330 MW Geothermal Power Plant – North Sumatra**
Prepared and conducted monitoring and management plan in accordance with Indonesia Regulation.
- 7. Social Consultancy Support– 330 MW Geothermal Power Plant – North Sumatra**
Developed Social Safeguard Compliance Audit Report, Resettlement Plan and Indigenous People Plan.
- 8. Biodiversity and Ecosystem Study – 330 MW Geothermal Power Plant – North Sumatra**
Completed study and review of biodiversity and study within project area.
- 9. Technical Advisor and Assistance – 330 MW Geothermal Power Plant – North Sumatra**
Provided advices and assistance on AMDAL technical aspects to the Client in facing the charges by the NGO.
- 10. SEECA Study – Proposed Geothermal Exploration Project – Lampung**
Developed Social Safeguard Compliance Audit Report, Resettlement Plan and Indigenous People Plan.

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Japan

ERM's Selected Renewables Power Project Experience

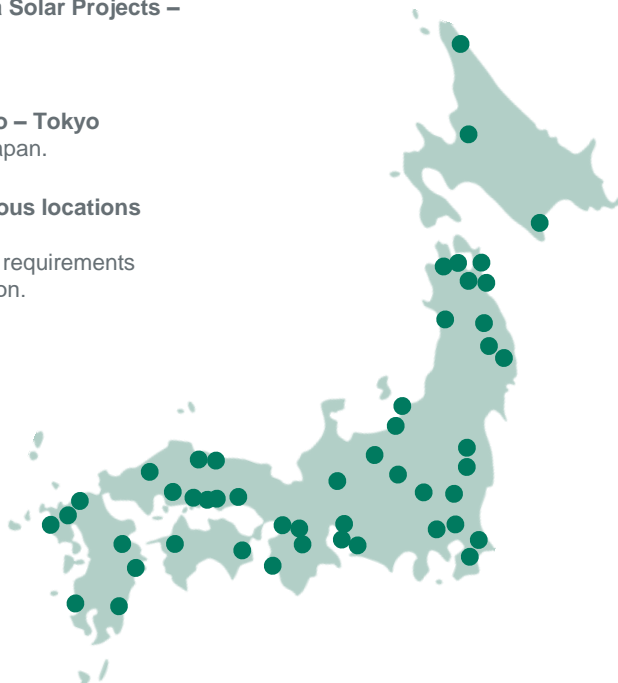


Solar

- **Environmental, Health and Safety (EHS) Systems – Multiple Mega Solar Projects – Various locations throughout Japan**
In accordance with Japanese codes & regulations.
- **Environmental, Health and Safety (EHS) Systems – Solar Portfolio – Tokyo**
Developed and implemented EHS Systems for a solar developer in Japan.
- **Permit and Environmental Review – Multiple Solar Projects – Various locations throughout Japan**
Identification of key permit conditions and/or environmental mitigation requirements potentially impacting the cost of the project's construction and operation.

Wind

- **Preliminary ESIA Studies – Multiple Wind Farm Projects, Onshore and Offshore – Various locations throughout Japan**
Mapping and reviewing environmental, physical and planning constraints and carrying out stakeholder identification.
- **Environmental Impact Assessment Study – Wind – Tokyo**
Completed multiple studies for the government on Japan EIA law versus that of other countries, including procedures specific to renewable projects.
- **Stakeholder Engagement – Multiple Wind Farm Projects, Onshore and Offshore – Various locations throughout Japan**
Performed stakeholder support for wind farm developments



Solar and Wind

- **Construction Safety Audits – Multiple Mega Solar and Wind Projects – Various locations throughout Japan**
In accordance with Japanese codes & regulations and international best practice.
- **Environmental Site Assessments (ESAs) Systems – Multiple Solar, Wind and Biomass Projects – Various locations throughout Japan**
Identifying environmental risks and potential liabilities for transactions involving solar, wind and biomass assets.
- **National Laws and Environmental Regulation Review – Multiple Mega Solar and Wind Farm Projects – Various locations throughout Japan**
Developed a screening tool to determine Environmental Impact Assessment (EIA) requirements, including local obligations and application requirements (costs, approval time limits, etc.).
- **Wind/Geothermal Research Study – Wind and Geothermal – Tokyo**
Completed a study for NEDO related to global trends in EIA practice for wind and geothermal projects.

Wind and Geothermal

- **Wind/Geothermal Research Study – Wind and Geothermal – Tokyo**
Completed a study for NEDO related to global trends in EIA practice for wind and geothermal projects.

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Laos

ERM's Selected Renewables Power Project Experience



Hydro

- 1. Environmental and Safety Management and Implementation – Road Infrastructure for Hydropower Project**
In accordance with World Bank Safeguards.
- 2. Environmental Impact Assessment (EIA); Environmental and Social Management and Monitoring Plan; Biodiversity Offset Study, Environmental Flow Assessment and Resettlement**
Technical Assessment – Hydropower Project
In accordance with ADB Safeguards.
- 3. Environmental Capacity Building during Construction – Hydropower Project**
- 4. Environmental and Social Audit – 440 MW Hydropower Project – Bolikhamxay and Khammouane Provinces**
In accordance with IFC Performance Standards (PSs).
- 5. Resettlement and Social Due Diligence Review – Hydropower Project – Bolikhamxay and Khammouane Provinces**
In accordance with local regulations and IFC PSs.
- 6. Environmental and Social Impact Assessment (ESIA) – 61 MW Hydropower Project – Champasek Province, Southern Lao**
In accordance with IFC PSs.
- 7. EIA – 280 MW Hydropower Project – Xaysomboun and Bolikhamxay Provinces**
In accordance with IFC PSs.



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Myanmar

ERM's Selected Renewables Power Project Experience



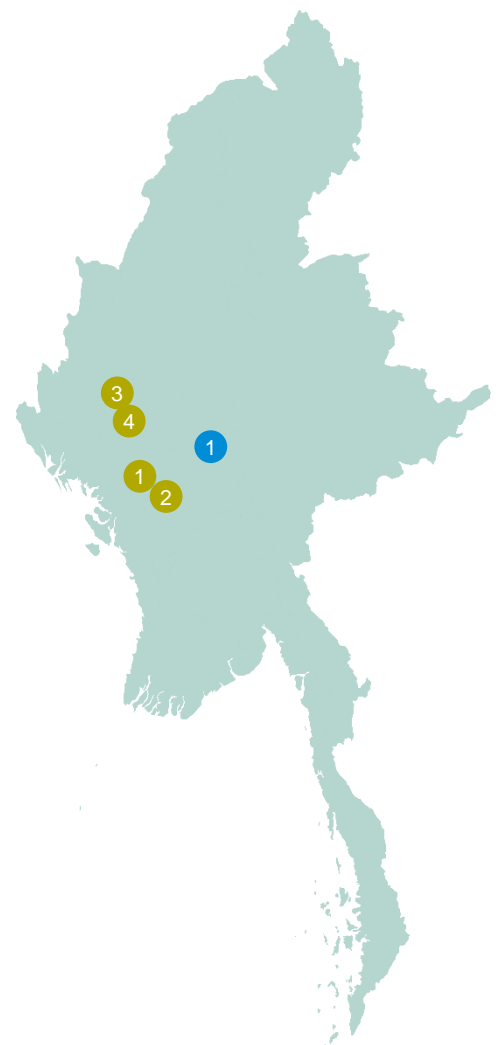
Review of EIA Guidelines for Hydropower Projects in Myanmar, IFC, 2018

Hydro

1. ESIA – 230 MW Hydropower Plant – Shan State

Wind

1. ESIA – 113 MW Wind Farm and 58km Transmission Line – Magway Region
2. ESIA – 50 MW Wind Farm and 115km Transmission Line – Magway Region
3. ESIA – 50 MW Wind Farm and 19km Transmission Line – Magway Region
4. ESIA – 50 MW Wind Farm and 49km Transmission Line – Magway Region



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Nepal

ERM's Selected Renewables Power Project Experience



Hydro

1. For Upper Trishuli Hydropower Project

- **Environmental and Social Assessment for Upper Trishuli** for Nepal Water & Energy Development
- **Environmental and Social Impact Assessment and Livelihood Restoration Framework based Gap Assessment** for Upper Trishuli Project for GMR Energy (S) Pvt. Ltd.
- **Updating the Social Impact Management Framework for Upper Trishuli – 1 Project** for Nepal Water and Energy Development Company
- **Cumulative Impact Assessment** for the Trishuli River Basin for World Bank
- **Final disclosure support** to IFC for UT-1 including lender appraisal visit support and final edits to disclosure documents

2. For Upper Karnali Hydropower Project

- **Formulation of Resettlement Action Plan and Development of Livelihood Restoration Plan** for Upper Karnali Project, Nepal for GMR Energy (S) Pvt Ltd.
- **Development of a Benefit Sharing Plan** for Upper Karnali Project, Nepal for GMR Energy (S) Pvt Ltd.

3. Desk based Environmental and Social Scoping for Cairn Energy Nepal

4. Environmental and Social Due Diligence of Likhu Hydropower Project for Dolma Impact Fund.

5. Project Preparation and Technical Supervision Services for Electricity Transmission Project: Transmission and Substation Activities

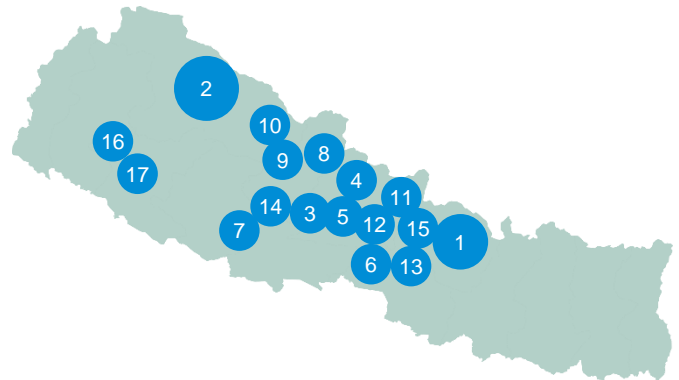
6. Environmental and Social Impact Assessment and development of Resettlement Action Plan for Office of Millenium Challenge (OMCN) Compact, Phase 1

7. Sustainable Finance Support through preparation of Environmental and Social Impact Assessment and development of Resettlement Action Plan needed for project financing for Lahmeyer International GmbH

8. Environmental and Social Impact Assessment Screening and Verification of the status of the Initial Environmental Examination (IEE) for a 28 km double circuit overhead line (220 kV voltage level) and the sending–and receiving–end 220/132/33 kV substations for Lahmeyer International GmbH

9. Supplier Audits for Hermes International, Nepal

10. Sustainability Assessment for Kabeli project for International Hydropower Association (IHA)



11. Environmental and Social Impact Assessment, detailed design studies, and preparation of bidding documents for the proposed 335 MW Upper Arun Hydroelectric Project (UAHP) and the supporting 18 MW Ikhuwa Khola Hydroelectric Project (IKHP) on behalf of World Bank for Nepal Energy Authority, Ministry of Energy, Government of Nepal.

12. Environmental and Social Gap Analysis of 220 kV transmission line (approx. 40km) near Pokhara, from Lekhnath to Damauli, as well as two substations (220/132 kV) to be built by Nepal Energy Authority under the financing from KfW Development Bank.

13. Environmental and Social Risk Review for Proposed Investment in Tanahu Hydro Scheme for European Investment Bank (EIB)

14. Environmental and Social Due Diligence for Hydel Power Project in Nepal for GMR Energy Pvt. Ltd.

15. Series of Strategic Capacity Enhancement Workshops on Environmental and Social Risk Management (ESRM) for financial institutions on behalf of IFC.

16. Environmental and Social Risk Assessment for the Nepal Tourism Sector on behalf of IFC – World Bank Group.

17. Development of a LBSP & ESTP Framework and Related Action Plans for GMR Energy Pvt. Ltd.

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Philippines

ERM's Selected Renewables Power Project Experience



Wind

1. EHS Regulatory Support – Wind Farm Project
2. Environmental & Social Action Plan (ESAP) Implementation Monitoring – Wind Farm Project – Ilocos Norte Province
In accordance with the Equator Principles.
3. Safety Regulatory Review – Wind Farm Project

Hydro

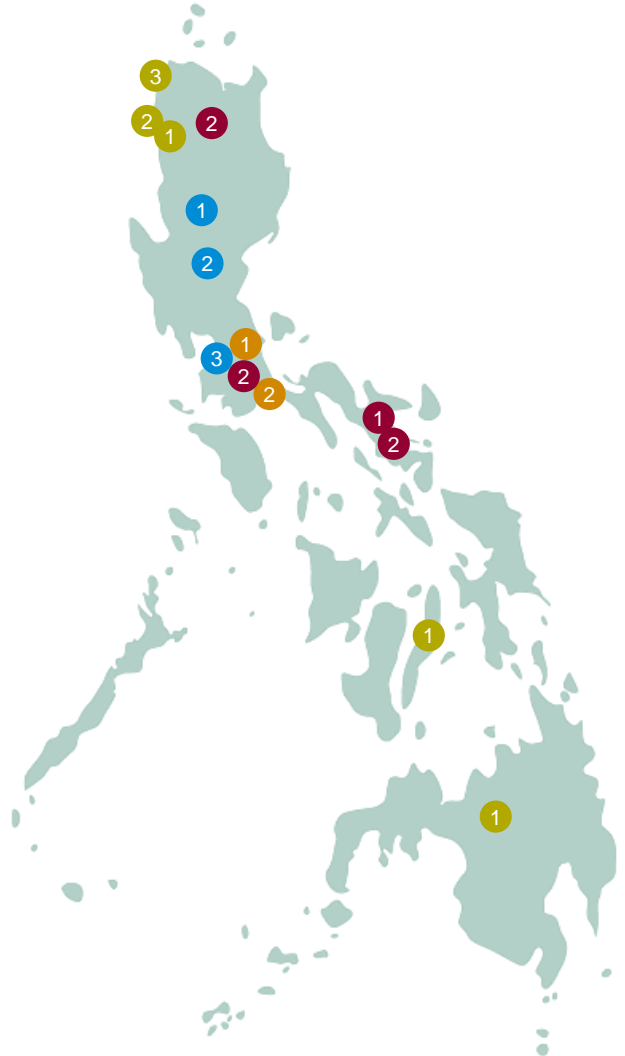
1. a) Environmental Impact Statement (EIS) and Environmental and Social Impact Assessment (ESIA) – 140 MW Hydropower Project
In accordance with local regulations and IFC Performance Standards (PSs).
b) EIS and ESIA – 250 MW Pumped-Storage Hydropower Project
In accordance with local regulations and IFC Performance Standards (PSs).
2. EHS Due Diligence – Hydropower Project – Luzon
3. ESIA – 500 MW Pumped-Storage Hydropower Project
In accordance with local regulations and IFC PSs.

Geothermal

1. EHS and Social Performance Assessment – Geothermal Power Plant – Luzon
In accordance with local regulations and corporate standards.
2. Independent Environmental Due Diligence – Geothermal Power Plants – Luzon
In accordance with IFC, ADB, JBIC and NEXI standards.

Solar

1. ESDD – Solar Project – Rizal
2. Safety Regulatory Review – Wind Farm Project



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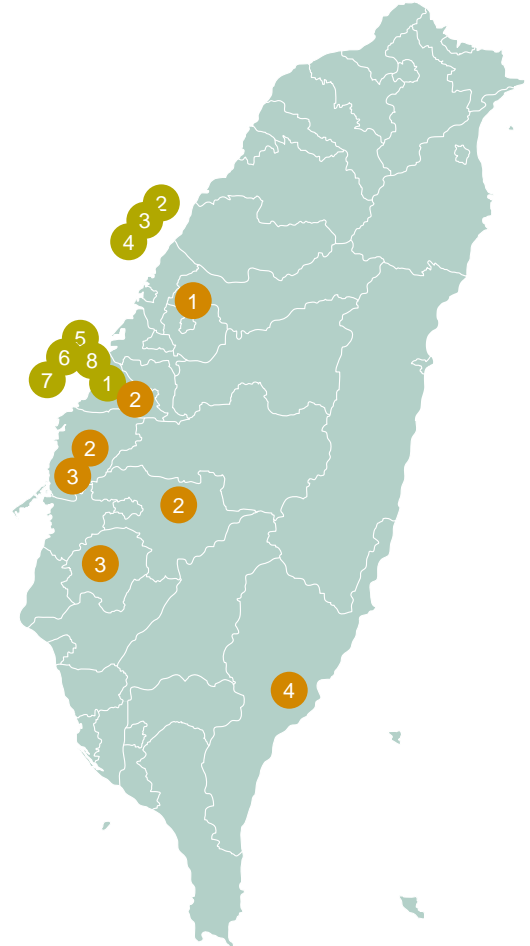
Taiwan

ERM's Selected Renewables Power Project Experience



Wind

1. Contractor Safety Training – Offshore Wind Farm Project
2. Quality, Health, Safety and Environment (QHSE) Management Support – Offshore Wind Farm Project
3. Equator Principles Support – Offshore Wind Farm Project
4. Permit Review – Offshore Wind Farm Project
5. Environmental Monitoring – Offshore Wind Farm Project
6. EHS Management System Support – Offshore Wind Farm Project
7. EHS Support for Taiwan Operations – Offshore Wind Farm Project
8. Bird Collision Risk Assessment – Offshore Wind Farm Project



Solar

1. ESDD – Solar Power Development Project
2. ESDD – Solar Power Development Project
3. Safety Support – Solar Power Development Project
4. ESDD – Solar Power Development Project

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Thailand

ERM's Selected Renewables Power Project Experience



Solar

1. Code of Practice (CoP) Compliance Assessment, Environmental and Safety Assessment (ESA), and ESIA – 6 MW and 4 MW Solar Projects –Samut Sakorn Province
2. Code of Practice (CoP) Compliance Assessment, Environmental and Safety Assessment (ESA) – Solar Farm Project – Maehongson Province
3. Code of Practice (CoP) Compliance Assessment, Environmental and Safety Assessment (ESA) – Solar Farm Project – Khon Kaen Province
4. Code of Practice (CoP) Compliance Assessment – Floating Photovoltaic Solar Project – Ubonrachatani Province
5. Environmental and Social Due Diligence (ESDD) – 3 Solar Projects – Prachinburi Province

Wind

1. Site Assessment – Wind Farm Project – Saraburi Province
2. Site Assessment – Wind Farm Project – Chonburi Province
3. Site Assessment – Wind Farm Project – Prachuap Khiri Khan Province
4. Code of Practice (COP) Compliance Assessment, Environmental and Safety Assessment (ESA), and Environmental and Social Impact Assessment (ESIA) – Wind Farm Projects – Chaiyaphum and Sakon Nakorn Provinces
5. Initial Environmental Examination (IEE) – Wind Farm Project – Prachuap Khiri Khan Province

Biomass

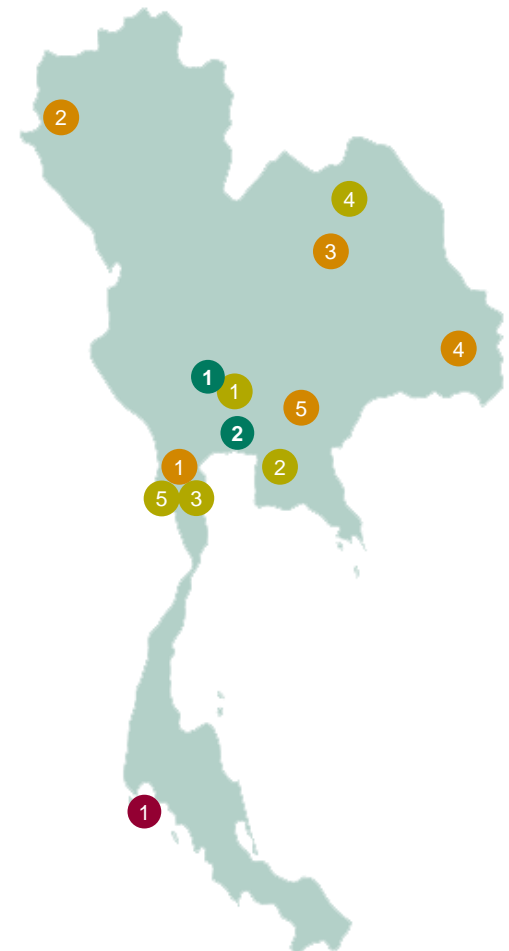
1. Environmental and Social Due Diligence (ESDD) – Biomass Power Plant – Phuket

Waste-to-Energy

1. ESA and Initial Stakeholder Engagement – Waste-to-Energy Project
2. EDD - Waste-to-Energy Project - Bangkok

Hydro

1. Climate Strategy – Global Power (Combined Cycle, Renewable Energy, and Hydropower) Company



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Vietnam

ERM's Selected Renewables Power Project Experience

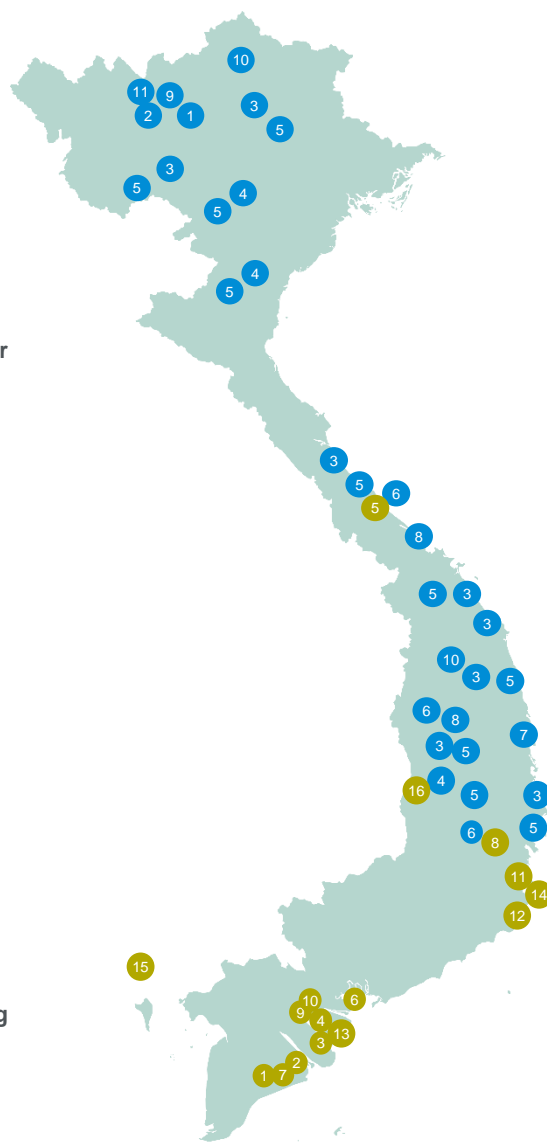


Hydro

1. ESIA – 30 MW Hydropower Project – Lao Cai Province
2. ESIA – Hydropower Project – Lao Cai Province
3. ESDD – Hydropower Company – Multiple locations
4. ESDD – Hydropower Company – Multiple locations
5. ESAP – Hydropower Company – Multiple locations
6. ESDD – GEC's hydropower plants – Multiple locations
7. ESDD – Nuoc Xang Hydropower Plant – Binh Dinh Province
8. Environmental Flow Study and Supplemental Biodiversity Assessment for Hydropower Plant – Hue and Gia Lai Provinces
9. ESDD – Hydropower Company – Multiple locations in Lao Cai
10. ESDD – Hydropower Company – Multiple locations in Kon Tum and Ha Giang
11. ESDD – Confidential Client - Seven HPPs – Lao Cai Province

Wind

1. Noise Baseline Survey – Wind Farm Project – Bac Lieu Province
2. Feasibility Study and Preliminary ESIA – Wind Farm Project – Soc Trang Province
3. Feasibility Study – Wind Farm Project – Soc Trang Province
4. ESIA – 96 MW Tra Vinh Wind Power Project – Tra Vinh Province
5. ESIA – 30 MW Huong Linh 1 Wind Power Project – Quang Tri Province
6. ESIA – 80 MW Nexif Wind Power Project – Ben Tre Province
7. ESIA – 170MW Phu Cuong Wind Power Project – Soc Trang Province
8. ESDD – 272 MW Wind Power Project – Ninh Thuan Province
9. ESIA – Mainstream – 200MW Phu Cuong Offshore Wind Farm – Soc Trang Province
10. ESIA – BANPU – 90MW Soc Trang Wind Farm – Soc Trang Province
11. ESDD – BIM Energy – Onshore Wind Farm – Ninh Thuan Province
12. ESDD – Susi Partners Windfarm ESDD – Ninh Thuan Province
13. Red – Flag ESDD – CFM – Hiep Thanh Windfarm – Tra Vinh Province
14. Critical Habitat Screening Assessment – BIM Wind Power Project – Ninh Thuan Province
15. Preliminary E&S Assessment – The Blue Circle – Windfarm development – Cambodia.
16. Rapid E&S Assessment – Renova – Windfarm project – Daklak Province
17. Environmental and Social Impact Management (ESIA) and Social Management Plans – Tan Hoan Cau – Thanh Hai 1&2 Windfarm – Ben Tre Province
18. Environmental and Social Impact Management (ESIA) – CFM – Hiep Thanh Windfarm – Tra Vinh Province
19. Bird and Bat Assessment – Ami-AC Energy – B&T Onshore Windfarm – Quang Binh Province



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ERM's Selected Renewables Power Project Experience

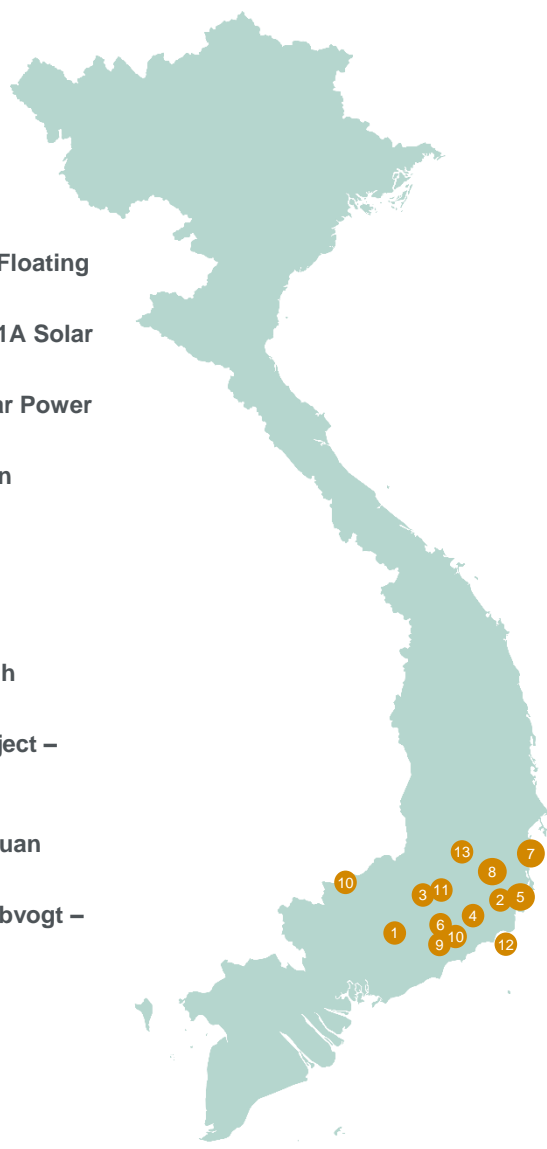
Vietnam

ERM's Selected Renewables Power Project Experience



Solar

1. Environmental Site Assessment – Solar Project – Ho Chi Minh City
2. Feasibility Study – Solar Project – Ninh Thuan Province
3. Initial Environmental and Social Examination (IESE) – 48 MW Da Mi Floating Solar Power Plant – Binh Thuan Province
4. Environmental and Social Support Services – 150 MW Hong Phong 1A Solar Power Project – Binh Thuan Province
5. Environmental and Social Support Services – 168 MW Sunseap Solar Power Project – Ninh Thuan Province
6. ESIA and ESMP – 98 MW Ham Phu Solar Power Project – Binh Thuan Province
7. ESDD – two Solar Power Projects – Ninh Thuan Province
8. ESDD – BIM Energy – three Solar Farms – Ninh Thuan Province
9. ESDD – Scatec – Hong Phong 5.2 Solar farm – Binh Thuan Province
10. ESDD and ESMS development – CGIF – Gelex – Ninh Thuan and Binh Phuoc Provinces
11. Environmental and Social Compliance Audit – ADB – TTC Solar Project – Tay Ninh Province
12. Environmental and Social Impact Assessment (ESIA) and Social Management Plans – Scatec – Hong Phong 5.2 Solar farm – Binh Thuan Province
13. Scoping Study for Environmental and Social Impact Assessment – Ibvogt – Ea Sup Solar farm – Dak Lak Province



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ERM's Selected Renewables Power Project Experience

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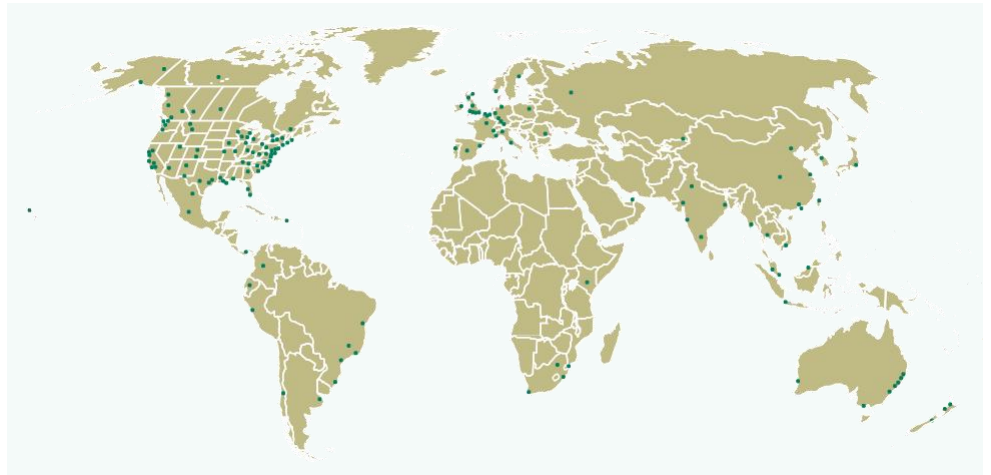
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About ERM

Environmental Resources Management (ERM) is a leading global provider of environmental, health, safety, risk, social consulting services and sustainability related services. We have more than 160 offices in over 40 countries and territories employing more than 5,500 people who work on projects around the world.

ERM is committed to providing a service that is consistent, professional and of the highest quality to create value for our clients. We have worked with many of the Global Fortune 500 companies delivering innovative solutions for business and selected government clients helping them understand and manage the sustainability challenges that the world is increasingly facing.

For over 40 years we have been working with clients around the world and in diverse industry sectors to help them to understand and manage their environmental, health, safety, risk and social impacts. The key sectors we serve include Oil & Gas, Mining, Power, and Manufacturing, Chemical and Pharmaceutical. All face critical sustainability challenges and our clients in these and many other areas rely on our ability to assist them operate more sustainably which has a positive impact on our planet.