

Reference List

References in Vietnam

Project Name	Client	Main Features	Scope of services	Year(s)
LNG Import Terminal Concept Design for the Ca Na Power Complex, Vietnam	Confidential	Pre-Feasibility Study Services	Pre-Feasibility Study for the LNG Import Terminal for Gulf Vietnam, in Vietnam.	2020-ongoing
48 MW Tra Vinh Wind Power Project in Tra Vinh, Vietnam	Truong Thanh Tra Vinh Wind Power Joint Stock Company	Owner Engineer Services	Owner Engineer Services Including Project Management, Design Review, and Site Monitoring during Construction and Commissioning The Nearshore Wind Power Project located in Tra Vinh Provinces, Vietnam	2020 - ongoing
Lotus Wind Power Project	Confidential	Lender Technical Advisor Service	Lender Technical Advisor Service LTA's Act as TDD service for providing technical assistance to the Companies for the development, construction and operation of three wind power projects (48MW each wind farm) located in Quang Tri Province, Vietnam	2020
Technical Due Diligence for Loc Ninh 1, 2 and 3 Solar Project	Confidential	Technical due Diligence services	Technical due Diligence services in 3 Solar Power Plants LN1-2-3 in Loc Thanh Commune Loc Ninh Province Vietnam. TA's TDD services include risk matrix table, site visit/site assessment, independent EYA, Review of (selected Projects); plant design and technology, sponsor's EYA, historical plant performance analysis, O&M and EPC contracts, PPA, grid interconnection, O&M arrangements, permits and	2020

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Project Name	Client	Main Features	Scope of services	Year(s)
			license, environmental & safety & socio-economic issues, key technical and economic parameters for financial modelling	
Traffic and Transport Impact Assessment for the Hoa Dong and Lac Hoa Wind Power Plant Project	Wind Power Hoa Dong Company Limited and Wind Power Lac Hoa Company Limited	Technical Advisory services	The objective of the Services is to assist Client with the Traffic and Transport Impact Assessment for the Project and to prepare input for associated and subsequent activities, including without limitation to the conduct of other surveys, reports to be compliant with IFC's requirements regarding TIA for the Project.	2020
Van Phong 1500 MW Combined Cycle Power Plant Project	Confidential	Feasibility Study Services	<p>Feasibility Study Services for Van Phong 1500 MW Combined Cycle Power Plant Project</p> <p>A client is planning to design, build, operate and finance a CCGT power plant project (the Project) in Van Phong bay in Vietnam. AFRY has been hired to perform a pre-feasibility study for the Project. The plant will use LNG from a new facility currently also at the Feasibility stage. This work is being done by RHDHV. The plant will have diesel fuel as a back up. The technology will be using two GE 9HA.02 gas turbines on a site adjacent to a coal plant under development.</p>	2020

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Project Name	Client	Main Features	Scope of services	Year(s)
the CA MAU 1-A-B-C-D Offshore Wind Power Project In Ca Mau, Vietnam	CA MAU 1A ENERGY JOINT STOCK COMPANY	Technical Advisory services for Offshore Wind Power Project	Technical Advisory services TA's Energy Yield Assessment and layout optimization by reviewing data	2020
75 MW WtE plant located in Hanoi, Vietnam	Confidential/ Vietnam	Waste to Energy plant located in Hanoi, Vietnam	Phase 1: LTA's TDD services including Design Basic, Contract Documents, Environmental Documents, ,Financial Documents. Phase 2: Operations Monitoring including O&M review, site visit WtE plant once (one year of operation after COD, warranty issues review, budget review, performance review	2020 – ongoing
Combined Cycle Gas Turbine Project in Vietnam	Confidential	Combined Cycle Gas Turbine (CCGT) Power Plant (1,050±10% MW) , O Mon Power Center in Thoi Loi area, Phuoc Thoi ward, O Mon district, Can Tho city	Phase 1: Review of Pre-FS Report and Additional Site Studies	2020
Super_200+50 MW onshore Wind Farm	Super wind energy company limited	50 and 200 MW Wind Farm Projects to be located in Gia Lai and Phu Yen Provinces, Vietnam	TA's services will provide Phase 1: LTA's TDD services include site visit/site assessment, independent EYA, Review of; plant design and technology, sponsor's EYA, O&M and EPC contracts, PPA, grid interconnection, O&M arrangements, permits and licenses, environmental & safety & socio-economic issues, key technical and economic parameters for financial modelling, and independent Vietnam's electricity market study Phase 2: Annual operation monitoring including O&M review, site visit, warranty	2020

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Project Name	Client	Main Features	Scope of services	Year(s)
			issues review, budget review, performance review	
Technical Due Diligence for 68.8MWp Solar PV Project in Vietnam	Confidential	Technical DD for 68.8MWp Solar PV project in Vietnam	TA's TDD services include site visit/site assessment, independent EYA, Review of; plant design and technology, sponsor's EYA, historical plant performance analysis, O&M and EPC contracts, PPA, grid interconnection, O&M arrangements, permits and licenses, grid curtailment study review, environmental & safety & socio-economic issues, key technical and economic parameters for financial modelling. Additional scope undertaken included independent technical grid modelling (i.e. independent grid study).	2020
141 MWp Solar PV Projects in Long An Province, Vietnam	Confidential	Technical Due Diligence Service	TA's TDD services include site visit/site assessment, independent EYA, Review of; plant design and technology, sponsor's EYA, O&M and EPC contracts, PPA, grid interconnection, O&M arrangements, historical plant performance analysis, permits and licenses, environmental & safety & socio-economic issues, key technical and economic parameters for financial modelling, and construction progress and quality	2020
168 MW Solar Project in Ninh Thuan , Vietnam	Confidential	Technical Due Diligence Service	TA's TDD services include site visit/site assessment, independent EYA, Review of; plant design and technology, sponsor's EYA, O&M and EPC	2020

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Project Name	Client	Main Features	Scope of services	Year(s)
			contracts, PPA, grid interconnection, O&M arrangements, historical plant performance analysis, permits and licenses, environmental & safety & socio-economic issues, key technical and economic parameters for financial modelling, and construction progress and quality	
165MWdc Solar PV project in Tra Vinh Province, Vietnam	Confidential	Technical Due Diligence Service	TA's TDD services include site visit/site assessment, independent EYA, Review of; plant design and technology, sponsor's EYA, O&M and EPC contracts, PPA, grid interconnection, O&M arrangements, historical plant performance analysis, permits and licenses, environmental & safety & socio-economic issues, key technical and economic parameters for financial modelling, and construction progress and quality	2020
Technical Due Diligence & Development of Greenfield Wind Power Projects	Powertek Energy Sdn Bhd	Technical Due Diligence Service	Technical Advisory Services for developing a Greenfield 118 MW Hanbaram Wind Farm Project	2020
B.Grimm_Bac Lieu Near Shore Wind Farm Project	B.Grimm Power Public Company Ltd	Technical Due Diligence Service	Technical Due Diligence Service Technical Due Diligence Service TA's TDD services include site visit/site assessment, independent EYA, Review of; plant design and technology, sponsor's EYA, key technical and economic parameters for financial modelling	2020

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Project Name	Client	Main Features	Scope of services	Year(s)
Technical Due Diligence for Huong Linh #1 to #4 wind farm projects	Leader Energy Group Sdn. Bhd.	Technical Due Diligence Service	Technical Due Diligence Service	2020
100 MW Greenfield Wind Farm Project in Vietnam:	GE Renewable Energy	Technical Due Diligence Service	Technical Due Diligence Service 100 MW Greenfield Wind Farm	2019
Tra Vinh Nearshore Wind Farm, Vietnam (48 MW):	Sermasang Power Corporation PLC.,	Technical Advisory Services	Technical Advisory Services including EPC bid evaluation, Review of Feasibility Studies and preparation of Independent Feasibility Study; Project Director	2019
50MW ground mount solar PV	Confidential	Technical Due Diligence Service	TA's TDD services include site visit/site assessment, independent EYA, Review of; plant design and technology, sponsor's EYA, key technical and economic parameters for financial modelling	2019
2x30 MWp ground-mount solar PV project in Tay Ninh, Vietnam	Confidential	Lenders' Technical Advisory service	Phase 1: LTA's TDD services include site visit/site assessment, independent EYA, Review of; plant design and technology, sponsor's EYA, O&M and EPC contracts, PPA, grid interconnection, O&M arrangements, permits and licenses, environmental & safety & socio-economic issues, key technical and economic parameters for financial modelling Phase 2: Annual operation monitoring including O&M review, site visit, warranty issues review, budget review, performance review	2019

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Project Name	Client	Main Features	Scope of services	Year(s)
50 MWp ground-mount solar PV project in Vietnam	Confidential	Lenders' Technical Advisory service	Lenders' Technical Advisory service Including Phase 1: TDD services include site visit/site assessment, independent EYA, Review of; plant design and technology, sponsor's EYA, O&M and EPC contracts, PPA, grid interconnection, O&M arrangements, permits and licenses, environmental & safety & socio-economic issues, key technical and economic parameters for financial modelling, and independent Vietnam's electricity market study	2019 – Ongoing
236.7MWp 5x Solar PV Projects in Vietnam	Confidential	Lenders' Technical Advisory service	TA's services will provide Phase 1: LTA's TDD services include site visit/site assessment, independent EYA, Review of; plant design and technology, sponsor's EYA, O&M and EPC contracts, PPA, grid interconnection, O&M arrangements, permits and licenses, environmental & safety & socio-economic issues, key technical and economic parameters for financial modelling, and independent Vietnam's electricity market study Phase 2: Annual operation monitoring including O&M review, site visit, warranty issues review, budget review, performance review	2019
250 MW Quang Binh Wind Farm Project	B&T Wind Farm Joint Stock Company /Vietnam	Technical Advisory Services for Geotechnical Investigation campaign	Technical Advisory Services for Geotechnical Investigation campaign of a	2019

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Project Name	Client	Main Features	Scope of services	Year(s)
			<p>250MW Wind Farm Project in Vietnam.</p> <p>Scope of services including</p> <ul style="list-style-type: none"> - Preparation of specification for the execution of geotechnical investigation works in the field - Review of the bids submitted by the geotechnical engineering companies for execution of the geotechnical investigation works in the field and laboratory tests - Site visits to monitor and inspect the drilling and core sampling activities on site, and an optional visit of laboratory tests - Review the drilling, sampling and testing results and geotechnical interpretation 	
48 MW Nearshore Wind Power Project in Tra Vinh, Vietnam	Truong Thanh Tra Vinh Wind Power Joint Stock Company/Vietnam	Owner Engineering Services	Owner Engineering Services for Vinh Chau Wind Farm to provide preparation of technical specification and tender document, support during tendering activities, bid clarification and bid evaluation.	2019 - 2020
90 MW Wind Power Project in Vinh Chau, Vietnam	BPP Vinh Chau Wind Power Limited Liability Company/Vietnam	Owner Engineering Services	Owner Engineering Services for Vinh Chau Wind Farm to provide preparation of technical specification and tender document, support during tendering activities, bid clarification and bid evaluation.	2019- 2020

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Project Name	Client	Main Features	Scope of services	Year(s)
BPP T-rex TDD, Vietnam	Confidential /Vietnam	Technical Due Diligence Service	TA's TDD services include site visit/site assessment, independent EYA, Review of; plant design and technology, sponsor's EYA, key technical and economic parameters for financial modelling	2019-2020
BPP Dam Nai TDD, Vietnam	Confidential /Vietnam	Technical Due Diligence Service for BPP_39.4 MW Wind Farm Project in Ninh Thuan Province	TA's TDD services include site visit/site assessment, independent EYA, Review of; plant design and technology, sponsor's EYA, key technical and economic parameters for financial modelling	2019
Project Hanbaram	Confidential /Vietnam	Technical Due Diligence & Development of Greenfield Wind Power Projects in Vietnam	<p>TA's scope services including in technical a due diligence and development of a greenfield wind power project [3 sites] in a southern province in in Vietnam.</p> <p>Part 1 :</p> <p>Stage 1 : Technical Due Diligence for Phase 1 and Phase 2 including Independent Wind Resource and Energy Yield assessment</p> <p>Stage 2 : Project development for Phase 1 and Phase 2</p> <p>Part 2 : EPC Contract development and Bid evaluation and major equipment selection process</p>	2019
TDD_GE_Wind Project	GE Renewable Energy /Vietnam	Technical Due Diligence For 100 MW Greenfield Wind Farm Project in Vietnam	TA's TDD services include site visit/site assessment, independent EYA, Review of; plant design and technology, sponsor's EYA, key technical and economic parameters for financial modelling	2019

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Project Name	Client	Main Features	Scope of services	Year(s)
2 Wind Farms [Binh Thuan 64MW and Ninh Thuan 50 MW] under development in Vietnam	B. Grimm Power Public Company Limited /Thailand	Technical Due Diligence for 2 Wind Farm under Development	Technical Due Diligence The Target Assets are located in Vietnam: Binh Thuan 64MW; and Ninh Thuan 50 MW For Wind Farm project under development. Technical Diligence Services including reviewing historical Performance & Energy Yield of Wind Farm, Wind Turbine Technology, Wind Farm Design, Technical and Cost Inputs for client Financial Advisor; and Risks and Opportunities and Report.	2019
100 MW Intertidal Wind Farm Project, Ca Mau, Vietnam	Super Energy Group Company Limited	Technical advisory Services For O&M Contract Review	Technical advisory Services For O&M Contract Review	2019
80MW Nearshore Wind Project in Ben Tre Province, Vietnam.	Confidential	Technical advisory services for 80 MW Nearshore Wind Farm	Technical advisory services for their development of a 80 MW Nearshore Wind Farm. The projects including: Technical review of supporting studies and WTG models ,Desk Review of Supporting Studies and Energy Assessments, Risk Assessment Conclusions and Recommendations Exclusions and limitations	2018
BPP Vin Chau 80 MW Wind Power Project in Vinh Chau, Soc Trang Province, Vietnam	Confidential	Technical Due Diligence for Wind Farm under Development	Technical Advisory Services to undertake technical due diligence for the 80 MW Wind Power Project in Vinh Chau, Soc Trang Province, Vietnam.	2018

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Project Name	Client	Main Features	Scope of services	Year(s)
240 MWac Hoa Hoi Solar PP project in Vietnam	Phu Yen TTP Joint Stock Company /Vietnam	240 MWac Hoa Hoi Solar PP project in Vietnam	Owners engineering services Engineering Review, Project Management and Construction Monitoring including , Project Management including payment monitoring , Site Monitoring during construction, commissioning and testing , Taking Over – Construction Completion ,Issuing Final Completion Certificate	2018-2019
Binh Dai 30 MW nearshore wind farm project	B. Grimm Power Public Company Limited	Binh Dai 30 MW nearshore wind power project in Ben Tre province, South Vietnam	Technical Due Diligence Services in two phases: Phase 1: Initial Assessment including review of data collection and data, topography, wind resource and grid connection. Phase 2: Preliminary design and technical inputs for financial evaluation including technology selection, preliminary wind farm design, energy yield and cost estimate.	2018

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Project Name	Client	Main Features	Scope of services	Year(s)
Project Phoenix	B. Grimm Power Public Company Limited	Technical Due Diligence Services in South Vietnam comprising a variety of generating assets	<p>Technical Due Diligence Services for a variety of generating assets and projects including:</p> <p>Plants in Operation:</p> <p>14 Hydro power plants</p> <p>1 onshore Wind power plant</p> <p>Projects under Development:</p> <p>1 onshore wind power project</p> <p>2 solar power projects</p> <p>For the solar power development projects the Technical Due Diligence Services included plant condition assessment, analysis of proposed performance and availability, environmental review, technical and cost inputs for client's Financial Advisor; and risks and opportunities.</p>	2018
50 MWp solar PV project in Ninh Son, Vietnam	Confidential	50 MWp ground mounted solar PV project in Ninh Son, Vietnam	<p>Technical Advisory Services consisting of 2 phases.</p> <p>Phase 1: Technical Due Diligence services include site visit and site assessment, review of: energy yield assessment, grid connection options, design and technology, EPC contract and O&M contract, project management structure, PPA, key technical and economic parameters for financial modelling, permits & approvals, and regulatory & environmental issues, including review of ESIA.</p>	2018

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Project Name	Client	Main Features	Scope of services	Year(s)
			Phase 2: Review of EPC and O&M Heads of Terms (seperate from the TDD)	
885 MWp of solar power generation assets from up to four (4) projects in Vietnam	Confidential/ Vietnam	885 MWp of solar power generation assets from up to four (4) projects in Vietnam	Technical Advisory Services consisting of a Technical Due Diligence for 4 Projects at 4 sites including site visits, desktop review of Feasibility Studies, grid connection scheme, and related documents made available to determine the status of the Target Assets development, review key technical and economic parameters for financial modelling, and identify key risks and potential mitigation measure. The services included producing an independent Energy Yield Assessment	2018
My Son 2 solar power project in Vietnam.	Confidential/ Vietnam	My Son 2 solar power project in Vietnam	Technical Advisory Services including (i) Phase 1: Project Assessment and (ii) Phase 2: Technical Due Diligence.	2018
Floating Solar Photovoltaic Power Plant in Quang Tri Province, Vietnam	Electricity Generating Public Company Limited	Floating Solar PV Power Plants of up to 30 MWp	Technical Advisory Services for a Pre-feasibility study including site selection, Power Plant Conceptual Design, and Energy Yield Assessment; Project schedule preparation; Project Cost Estimate.	2018

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Project Name	Client	Main Features	Scope of services	Year(s)
340 MW Wind Farm Project in Vietnam	Super Energy Group Company Limited	340 MW Wind Farm Project	Owner's Engineer for one (1) wind project which consists 3 wind farms in Ca Mau, Bac Lieu and Soc Trang, Vietnam (340 MW). Scope includes assistance with WTG bidding, factory visits, energy production assessment, review of EPC and O&M contracts project management and design review.	2018-2019
47.5 MWp Floating Solar Power Project in Vietnam	Confidential	47.5 MWp Floating Solar Power Project in Vietnam	Lenders' Engineer Services including i) Phase 1: Technical Due Diligence including review project contracts, technology, environmental issues, permits and licenses and financial model and advising the lenders on technology and project implementation related issues; ii) Phase 2: construction monitoring, monitoring tests on completion and performance tests, monitor design changes and certify loan draw-downs; iii) Phase 3: monitoring O&M of the plant and review annual budgets during the loan period for the project.	2018
Large Scale Solar PV Power Project in a Reservoir, Vietnam	Confidential	Approximately 200 MW Solar PV Power Project in a Reservoir, Vietnam	Technical Advisory Services including (i) evaluation of the technical feasibility of the proposed marine foundation and mounting structures, in particular between various ground mounted and floating platforms and (ii) preparation of the EPC Tender Documents.	2018

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Project Name	Client	Main Features	Scope of services	Year(s)
500 MW Solar PV Power Project	Confidential/ Vietnam	500 MW Solar PV Power Project	Technical Advisory Services for a Pre-feasibility study Services including site and Infrastructure assessment, Power Plant Conceptual Design, and Energy Yield Assessment; Project schedule preparation; Project Cost Estimate.	2017
Vinh Tan 3 Coal Fired BOT Project	Confidential	Vinh Tan 3, 3 x 660 MW ultra-supercritical coal-fired thermal power plant.	Lenders' Independent Technical and Environmental & Social Advisor Services including an independent and detailed technical due diligence of the project, project documents, project contracts, proposed contractors and contracting arrangements, project execution arrangements, review of the financial model and technical model inputs. Also a detailed assessment and review of the project health, safety, environmental and social documentation; review of the Environmental and Social Impact Assessment, compliance with World Bank and other international guidelines, Environmental and Social Management Plan, Security Management Plan, land acquisition and community related issues, permits and licenses, risks, Gap Analysis, and Environmental and Social Action Plan.	2016
Market assessment and electricity price modeling	International renewable energy company	Market assessment including economic and regulatory framework, demand and power generation development, RE incentives and authorization process, RE PPA analysis, RE resources.	Market Assessment Services	2016

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Project Name	Client	Main Features	Scope of services	Year(s)
		Wholesale electricity price modeling.		
2X600 MW Coal Fired BOT Project	Confidential	2X600 MW CFBC coal fired project	Lenders' Independent Technical and Environmental & Social Advisor Services including an independent and detailed technical due diligence of the project, project documents, project contracts, proposed contractors and contracting arrangements, project execution arrangements, review of the financial model and technical model inputs. Also a detailed assessment and review of the project health, safety, environmental and social documentation; review of the Environmental and Social Impact Assessment, compliance with World Bank and other international guidelines, Environmental and Social Management Plan, Security Management Plan, land acquisition and community related issues, permits and licenses, risks, Gap Analysis, and Environmental and Social Action Plan.	2016
Market assessment and electricity price modeling	International renewable energy company	Electricity market assessment Vietnam	Market Assessment Services, including economic and regulatory framework, demand and power generation development, RE incentives and authorization process, RE PPA analysis, RE resources. Wholesale electricity price modeling.	2016
Electricity market assessment in Vietnam	Japanese Private Equity Firm	Market analysis of Vietnam electricity market including wholesale price projections for a major international bank	Market Assessment Services	2015

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Project Name	Client	Main Features	Scope of services	Year(s)
		performing Due Diligence assessment for an investment in a large hydro generation company		
Ngoi Xan HPP Complex	Confidential	The Ngoi Xan Hydropower Plants Complex comprises five (5) HPPs constructed at the Ngoi Xan river basin in Lao Cai Province of Vietnam. Van Ho HPP 3 x 1.5 MW Ngoi Xan1 HPP 3 x 3.5 MW Ngoi Xan2 HPP 3 x 2.7 MW Trung Ho HPP 2 x 4.2 MW Sung Vui HPP 2 x 9.0 MW	Technical Advisory Services comprising a due diligence assessment, site visits, technical assessment of the current conditions, review of operational data and outages, assessment of the O&M procedures, estimation of capital expenditure that can add value to the operating plants, and identification of risks and potential improvements.	2015
Electricity market assessment Vietnam	Private Equity Firm	Electricity market assessment Vietnam	Market Assessment Services. Analysis of Vietnam's electricity market including wholesale price projections, and performing a due diligence assessment for an investment in a large hydro generation company.	2015
Hai Duong Coal Fired Power Plant Project	Confidential	Hai Duong 1,200 MW coal fired power plant.	Technical Advisory Services including a due diligence assessment to determine the adequacy of the power plant design, EPC contract terms and conditions, EPC contractor's qualifications, boiler and steam turbine technology, and the EPC contract price, prior to the commencement of the EPC contract.	2015
Van Phong 1 Coal Fired BOT Project	Sumitomo Corporation	Van Phong 1, 2 x 660 MW supercritical coal fired power plant	Owner's Engineering Services including Phase 1: Review of technical part of the draft EPC contract, assistance with	2013 - 2018

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Project Name	Client	Main Features	Scope of services	Year(s)
			execution of project documents; Phase 2: Engineering/design review, construction supervision, EPC contract administration, schedule control and overall project management; Phase 3: Report on the operational status of the project.	
Mong Duong 1 Coal Fired Thermal Power Plant Project	Vietnam Electricity	Mong Duong 1, 2 x 500 MW coal fired power plant; each unit comprising 2 CFB Boilers and 1 steam turbine and generator.	Owner's Engineering Services including design review, procurement management services, construction management, site management, construction / erection and site supervision, environmental monitoring, resettlement programming, assistance during warranty period, and transfer of know-how and training activities.	2011-2017
Quang Trach 1 Coal Fired Thermal Power Plant Project	Vietnam Oil and Gas Group (PetroVietnam)	Quang Trach 1, 2 x 600 MW supercritical coal fired power plant project.	Owner's Engineering Services including review of the technical design, total cost estimate, EPC requirement dossier. EPC bidding documents review, negotiation and contract award. EPC contract implementation period including detailed design review, construction supervision services and support during commissioning and testing of the plant.	2011-2015
Large Coal Fired Power Plant Project	Confidential	2 x 560-600 MW supercritical coal fired power plant project	Lenders' Technical Advisory Services to review and evaluate all project contracts, reports / information of a Chinese EPC contractor; to assess and provide opinion on the EPC contractor's capabilities to perform and manage the full	2011

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Project Name	Client	Main Features	Scope of services	Year(s)
			responsibilities of an EPC contract for a project similar to the Project outside China.	
Mong Duong 2 Coal Fired BOT Project	AES-VCM Mong Duong Power Company Limited	Mong Dong 2, 2 x 620 MW anthracite fired power plant	<p>Lender's Independent Technical Advisor and Government Independent Engineer services, including:</p> <p>i) Review of all project contracts, technology, environmental issues, permits & licenses and financial model and to advise the lenders on all technology and project implementation related issues;</p> <p>ii) Monitor the construction of the plant, tests on completion and performance tests, monitor design changes and certify loan drawdowns;</p> <p>iii) Monitor operations and maintenance of the plant and review annual budgets, until the completion of loan period;</p> <p>iv) Provide independent assessment of issues which arise between the Sponsor and the Government under the BOT Contract and the PPA;</p> <p>v) Witness and certify plant performance test at transfer upon completion of the BOT term.</p>	2011-2027
Large Combined Cycle Gas Turbine Power Plant	Confidential	Large Combined Cycle Gas Turbine Power Plant	Technical Advisory Services for the preparation of a feasibility study, cost estimate and ITB and prepare bid evaluation	2010-2011

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Project Name	Client	Main Features	Scope of services	Year(s)
New Captive Coal Fired CFB Power Plant in Long Son	Siam Cement Group	Long Son 220 MW captive coal fired CFB power plant	<p>Owner's Engineering Services for:</p> <p>Phase I: Conceptual design and preparation of EPC tender documents for the power plant and review of the technical part of the tender documents for the water treatment plant;</p> <p>Phase II: EPC bid evaluation and assistance during EPC contract negotiations, provision of technical and financial inputs for the financial model.</p>	2009
Vung Ang 2 Coal Fired BOT Project	Vung Ang II Thermal Power Joint Stock Company	Vung Ang 2, 2 x 660 MW supercritical coal-fired power plant.	Technical Advisory Services including site surveys and seismic studies.	2009
Vung Ang 2 Coal Fired BOT Project	Vung Ang II Thermal Power Joint Stock Company and PetroVietnam	<p>Common Facilities for the Vung Ang Power Complex</p> <p>Common Facilities included coal jetty, ash disposal and coal handling facilities, cooling water intake system and cooling water discharge system to be shared by Vung Ang I and Vung Ang II coal-fired power plants.</p>	Technical Advisory Services to conduct the basic design for common facilities, i.e. coal jetty, marine works and cooling water system and site surveys including on- and offshore geotechnical investigation, topographic and bathymetric surveys and hydrographic studies (thermal dispersion modelling) for the Vung Ang Common Facilities.	2009

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Project Name	Client	Main Features	Scope of services	Year(s)
Vung Ang 1 Coal Fired Power Plant (Stage 2)	Vietnam Oil and Gas Group (PetroVietnam)	Vung Ang 1, 2 x 600 MW anthracite fired power plant	Owner's Engineering Services for: Phase I: Bid evaluation and EPC contract negotiations. Phase II: Engineering management services, design review, project / construction management services, construction/erection and site supervision, supervision of commissioning and testing, knowhow transfer and training activities.	2009-2015
New CFB Project	Confidential	200 MW captive coal fired CFB power and utility plant	Technical Advisory Services for conceptual design and feasibility study.	2008-2009
Nhon Trach 2 Combined Cycle Power Plant	PetroVietnam Nhon Trach 2 Power JS Company	Nhon Trach 2, 750 MW combined cycle power plant comprising of 2 gas turbines, 2 heat recovery steam generators, 1 steam turbine and all necessary ancillary plant and equipment.	Owner's Engineering Services for: Phase I: Review and update EPC bidding documents, EPC bidding, bid evaluation and EPC contract negotiations. Phase II: Engineering management services, design review, project / construction management services, construction/erection and site supervision, supervision of commissioning and testing, knowhow transfer and training activities.	2008-2011
Confidential	Confidential	Combined cycle gas turbine power pPlant	Technical Advisory Service for a feasibility study	2008
TPC Vina L-2 Project	TPC Vina Plastic & Chemicals Corp., Ltd.	Modified Emergency Generator	Engineering Services. Detailed design for the modification of an emergency generator to increase power supply for a new extension plant.	2008

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Project Name	Client	Main Features	Scope of services	Year(s)
TPC Vina L-2 Project	TPC Vina Plastic & Chemicals Corp., Ltd.	PVC Resin Expansion Plant; Production capacity of 90,000 tpa. by relocating used equipment from TPC Samutprakarn plant, Thailand to TPC Vina, Vietnam.	<p>Engineering Services. The services covered the electrical design for electrical works, lightning protection, fire alarm system, paging and intercom system and CCTV system.</p> <p>The scope of services included:</p> <p>Providing calculation documents.</p> <p>Providing construction drawings.</p> <p>Providing technical specification.</p> <p>Compilation of the relevant drawings and documents for approval by the local authorities.</p>	2007-2008
Confidential	Confidential	Coal Fired Power Plant	<p>Technical Advisory Services. A preliminary study for an EIA report on the technical concept and environmental impact of a coal-fired power plant.</p>	2007-2008
Vung Ang 1 Coal Fired Power Plant (Stage I)	Lilama Corporation	Vung An 1, 2 x 600 MW anthracite fired power plant.	<p>Owner's Engineering services:</p> <p>Stage I Pre-signing of equipment supply contract: Technical design report and total cost estimate; tender document preparation, preparation of bid evaluation procedures; clarification during bid preparation; bid evaluation and assistance in contract negotiations</p>	2007-2009

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Project Name	Client	Main Features	Scope of services	Year(s)
Ca Mau Combined Cycle Power Plant	Petro Vietnam	Ca Mau 2 x 750 MW Combined Cycle Power Plant	Owner's Engineering Services for: -EPC bid evaluation and EPC contract negotiations. -Design review, construction and site supervision, supervision of commissioning and testing.	2006-2008
Saigon Hi-Tech Park Power Project	Sumitomo Corporation	100 MW gas-fired industrial power plant project	Technical Advisory Services for the preparation of a feasibility study for a power plant project supplying energy to various industrial plants, including Intel's semiconductor plant, having very strict power quality and reliability requirements. The feasibility study included power load forecast, comparison of gas turbine combined cycle and gas engine technologies, conceptual design, environmental and social issues, investment and O&M cost estimates, financial and sensitivity analysis and risk analysis.	2006
Ca Mau Combined Cycle Power Plant	Petro Vietnam	Ca Mau, 750 MW combined cycle power plant (expansion)	Owner's Engineering Services. Preparation of a conceptual design and definite design, cost estimation, preparation of specifications and an EPC requirement dossier.	2005-2006
Uong Bi anthracite fired power plant (C6D) – Civil Works	Lilama Corporation	Uong Bi 300 MW anthracite fired power plant Civil works of Balance-of-Plant Equipment	Engineering Services. Preparation of detailed civil design and engineering support during construction for the EPC Contractor LILAMA	2004-2006

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Project Name	Client	Main Features	Scope of services	Year(s)
Thi Vai Grinding Terminal	Holcim Vietnam	Recovery of the sheet pile retaining wall at the Thi Vai Grinding Terminal	Technical Advisory Services. Investigations of a failure of a sheet pile retaining wall. Review of the detailed civil/structural design of the existing wall, the replacement wall and other structures. Assistance in the development of an appropriate basis of design for the replacement wall.	2003-2005
Thi Vai Grinding Terminal	Crawford Vietnam	Investigation of a collapsed silo roof structure of the Thi Vai Grinding Terminal Site in Phu My, Vietnam	Technical Advisory Services. Safety assessment of the collapsed building roof and its structural members, initial assessment of the possible cause of the collapse and remedial measures, review of the proposed method for dismantling the collapsed building structure, review of the new design for the building roof structure and silo support, preparation of an assessment report.	2004-2005
Ca Mau Combined Cycle Power Plant	Petro Vietnam	Ca Mau, 720 MW combined cycle power plant	Owner's Engineering Services. Services included additional soil investigations, review of the feasibility study; preparation of a conceptual design and definite design, cost estimation, preparation of specifications and an EPC requirement dossier.	2003-2004

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Project Name	Client	Main Features	Scope of services	Year(s)
Uong Bi Extension Power Plant	Lilama Corporation	Uong Bi Extension 300 MW anthracite fired power plant	EPC Contractor's Engineering Services. Pre-EPC Services, comprising front-end-engineering design (FEED), preparation of RFQ's for all supplies and works, bid evaluation, preparation of EPC proposal and contract negotiations with EVN. Management of EPC Implementation comprising project management including scheduling, cost control and administration, project engineering, procurement management, construction management, commissioning management, preparation of O&M manuals and services during warranty period.	2002-2009
Thang Long Power Plant	Cement Consulting Investment & Development Co., Ltd. Owner: Thang Long Cement Joint Stock Corporation (TLCC)	Thang Long 2 x 25 MW coal fired power plant	Technical Advisory Services. Services included the basic design, preparation of tender documents, evaluation of tenders and contract negotiation.	2002-2003
Morning Star Diesel Power Plant	Morning Star Cement	Mornig Star 30 MW diesel power plant	Technical Advisory Services for the feasibility study to establish the possibility of using heavy fuel oil from various sources at the power plant.	2002
Lao Strategy Study	Asian Development Bank (ADB)	Export of electric power from Lao to Vietnam	Market Assessment Services. Provision of data concerning Electricity Market in Vietnam	2000

Reference List

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Energy Sector Project	Confidential	Project in the energy sector	Technical Advisory Services. Initial environmental and social assessment for the project	1999
Amata Bien Hoa Power Plant	Amata Power (Bien Hoa) Ltd.	Amata Bien Hoa 20 MW diesel power station	Technical Advisory Services. Provision of a General Manager responsible for establishing the local company and the installation of the Phase I power plant equipment	1998-99
Dong Hoi Public Administration Reform (Phases 1-2)	Swiss Agency for Development and Cooperation, Berne/Switzerland	Dong Hoi Public Administration Reform Pilot Project	Technical Advisory Services. Technical assistance to the authorities of the Quang Binh Province and the City of Dong Hoi in the fields of urban planning and infrastructure development. Key components of the first project phase are public administrative reform as well as master plans for urban storm water drainage, waste water and solid waste management, roads and transportation	1997-2003
Hue Urban Development Project	Swiss Agency for Development and Cooperation, Berne/Switzerland	Hue Urban Infrastructure Development Project	Technical Advisory Services. Technical assistance to the Thua Thien Hue Province and the City of Hue in the fields of urban planning and infrastructure development. Key components of the first project phase are engineering design and implementation of infrastructure projects on urban drainage, solid waste management, water supply as well as technical support in urban facility management.	1997-2001

Reference List

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Opportunity Study	Finnish Foreign Trade Association	Opportunity study in the energy sector in Vietnam	Technical Advisory Services. Opportunity study	1997
Rao Quan HPP	Statskraft Engineering, Norwegian Agency for Development Cooperation (NORAD), Electricity of Vietnam, Power Company No. 3	Development of the hydropower potential of the Rao Quan and the Khe Nghi rivers. The Rao Quan river originates on a plateau about 1600 m, the Khe Nghi river has a catchment area of 28 km ² . The power station is feeding the transmission line between Khe Sanh and Da Nang, a 55 km 100 kV power line. Installed capacity 1000 MW	Technical Advisory Services. Feasibility study, phase I, for the Rao Quan Hydropower project in the Quang Tri province	1996 - 1997
Morning Star Cement Plant	Holcim, Switzerland	Hon Chong Cement Plant, located in Kien Giang Province and Cat Lai Cement Handling Terminal located near Ho Chi Minh City	Engineering Services. Detail design of civil works of the Cat Lai Cement Terminal and the Hon Chong Cement Production Plant, including site preparation, piling and assistance for site supervision during construction	1995 - 1997
Hon Chong Diesel Power Plant BOO	Holcim, Switzerland	Power and Water Supply for the Hon Chong Cement Plant located in Kien Giang Province near the Cambodian border	Technical Advisory Services. Definition of design parameters, Preparation of purchase agreement for 25 MW power and 500 m ³ /day water, Organisation of BOO including evaluation of bids.	1994 - 1995
Morning Star Cement Plant	Holcim, Switzerland	Hon Chong Cement Plant, located in Kien Giang Province and Cat Lai Cement Handling Terminal located near Ho Chi Minh City	Technical Advisory Services. Concept and preliminary design of the civil works for the Hon Chong Cement Plant and the Cat Lai Terminal, including tendering of civil works	1994 - 1995

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Training Program	Ministry of Heavy Industry and Institute of Energy, Vietnam	Industry and energy sector management training program	Technical Advisory Services. Industry and energy sector management training program	1994
Transmission and substation projects	ABB Strömberg Distribution Ltd, Finland	Transmission and substation projects in Vietnam	Technical Advisory Services. Preparation of project documents	1992 - 1993
Market study	Finnish Foreign Trade Association	Market study of the energy sector in Vietnam	Market Assessment Services. Market study	1992
Yali Falls, EIA	Mekong Committee Bangkok	Investigation of available groundwater resources in potential resettlement areas	Technical Advisory Services. Environmental impact assessment and financing studies	1991 - 1993
Indicative Basin Plan for the Lower Mekong Basin	Mekong Committee	Revision of the 1970 plan. Long term outlook of the basin's development potential; an investment plan covering 1988-2000; a concurrent program of studies and investigations; institutional strengthening	Technical Advisory Services. Review of existing projects, projects under construction and projects that are suited to meet the growing needs beyond the year 2000; Preparation of a forecast of the need for increased crop production until the year 2000; summary of major environmental issues; power demand forecast until the year 2000; review of the Secretariat's navigation facilities. Preparation of a short range plan and a complementary program; extension of the power demand forecast beyond the year 2000; preparation of a master plan of the Mekong Delta. In conjunction with another firm	1987- 1988
Hanoi Thermal Power Station	Brown Boveri & Co. Ltd. Switzerland	Main Power Station for the City of Hanoi	Technical Advisory Services. Consulting with respect to seismic matters	1978

Reference List

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Power Supply	United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)	Power supply for all the ESCAP member countries	Market Assessment Study. Study of the peak load coverage in interconnected systems	1976 - 1977