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Introduction

PT Pranata Energi Nusantara (PENConsulting) is an Indonesian energy development process consulting company, established in May 2002, specializing in providing professional and value creative process consultancy services in the energy sector.

We work hand in hand with our clients to identify and diagnose problems they’re facing with and effectively develop workable solutions together. We mingle our team with client’s team to share our knowledge and expertise, and work through the process. We do not simply provide our clients with recommendations, but we help our client make the right decision and work for their solutions.

Our vast accumulation of intellectual capital and experience in the energy sector in Indonesia and multi-national environment give our clients assurance that they have the right partner of choice when they deal with us.

Our reach is Global – PENConsulting serves clients and work with partners from around the world.
Vision
To become an internationally reputable energy development process consultant and a partner of choice in the energy industry, admired for its integrity, professionalism, and broad network.

Mission
To provide professional consultancy services through a process of aligning our client’s business, people, and resources toward value optimization, shaping up strategy that requires balancing competitive and collaborative processes, and effective networking with stakeholders in the energy sector world-wide.

Values
❖ Comply with prevailing laws and regulations;
❖ Search for the best possible intellectual, innovative, and professional avenues that add value to our valued clients;
❖ Adhere to the highest standard of business ethics and good corporate governance;
❖ Serve as a good, reliable and trusted corporate citizen;
❖ Give priority to customer satisfaction in an objective and proportionate manner;
❖ Emphasize the important aspects of safety, energy efficiency, and utilization of environmentally friendly energy.
Board of Commissioners and Directors

Ir. Michael Sumarijanto, MBA – President Commissioner
Ir. Anton Wahjosoedibjo – Commissioner & Executive Advisor
Nedia Permata Hasan, BSc in Environmental Science - Commissioner
Ir. Yanto Sianipar - President Director
Rachmat A. Abdoellah BSc PE, MM International Trade – Executive Director
Harris H. Djauhari BSc PE – Project Management Director
Bambang Pratesa, BA Geology Science. Master Petroleum Geology – Business Development Director

Commissioners and Directors

Ir. Michael Sumarijanto, MBA – President Commissioner. PENConsulting co-founder, his broad educational background in Architecture and Urban Design combined with Building Science at the University of New South Wales and the University of Sydney from 1963-1971, brought him close to the issues of environmental and energy matters. After completing an MBA degree in Indonesia, he further acquired the senior executive international training program in Partnership and Financing Strategies for Local Development at the Harvard University Graduate School of Design in 1999. He was nominated to be the Vice Chairman of the Jakarta Urban Design Advisory Board for two terms by the Governor of Jakarta, to oversee the development of urban fabric of the city. Currently he is the Vice Chairman of the Indonesian Mining and Energy Community (Bimasena), the Chairman of the Supervisory Board of the Indonesian Institute of the Energy Economics, and sat at various professional associations in Architecture and Energy sectors.

Ir. Anton Wahjosoedibjo – Commissioner and Executive Advisor, Co-founded PENConsulting after serving Chevron-Texaco’s Indonesian subsidiaries for almost 40 years, about 37 years with PT Caltex Pacific Indonesia (CPI), an upstream oil and gas company, and three years with Amoseas Indonesia (AI), a power company. He held Senior Vice President & Deputy Managing Director position prior to retiring from CPI and was Executive Advisor with AI. Anton is a Vice Chairman of the Board of Directors and the Executive Director (1998-2008), Honorary Member (since 2014) and Member of the Board of Advisor (2012 – 2015) and the Board of Experts (2015 – Present) of the Indonesian Electrical Power Society (MKI). He is also a member of the Advisory Board of the Indonesian Power Engineers Association (IATKI) and Member of the Board of Advisor of the Indonesian Renewable Energy Society (METI), the Indonesian Energy Conservation and Efficiency Society (MASKEEI) and the Indonesian Geothermal Association (API). Anton has been an Arbiter with the Indonesian National Arbitration Body (BANI) since 2015. He is a “EE” from ITB (1962) and University of Pennsylvania (1966). He received Petroleum Professional Diploma from the International Petroleum Institute, Tulsa, Oklahoma (1976). He attended Executive Development Programs of the Stanford University (Palo Alto, CA) and the National University of Singapore (1983), Southern Methodist University (Senior Executive Program for Petroleum Industry - 1988), and Princeton University, New Jersey (1989)
Nedia Permata Hasan, BSc - Commissioner graduated from Texas Christian University in Fort Worth, Texas with BS degree in Environmental Science. She is a certified NEBOSH Safety Management Science and ISO 14001 Auditor. She spent her earlier career as sales engineer for oilfield specialty chemicals and oil well cement with PT Elnusa. Then she joined Kondur Petroleum SA for 11 years, rising her career from Environmental Engineer to Senior Health, Environment and Loss Control Officer. She joined Petronas Carigali Tanjung Jabung Ltd. in 2005 as Environmental Officers and has been promoted to Senior Health, Health, Environment and Security Manager since 2016.

Ir. Yanto Sianipar – President Director is the former Senior Vice President of Policy, Government and Public Affairs (PGPA) of Chevron IndoAsia Business Unit (IBU), Chevron Asia Pacific Exploration & Production Company. The Chevron IBU encompasses Chevrons upstream activities in Indonesia and the Philippines. Yanto Sianipar started his career with Chevron in 1984 as Chemical Engineer and subsequently worked in a variety of positions, as he built his career with the Company, including Petroleum Engineer (1987-1993), Jakarta Exploration & Production Senior Coordinator (1993-1998), Team Manager Production and Team Manager Wellwork in Heavy Oil Duri (1998-2001), Manager Operational Excellence/Health Environment & Safety (2001-2005) and General Manager Sumatra Light South (2005-2009), before he was appointed as Vice President PGPA (2009-2013).

Born in Pematang Siantar, North Sumatra, Indonesia in 1960, Yanto Sianipar holds a degree in chemical engineering from the Bandung Institute of Technology (ITB), Bandung, acquired in 1984.

Yanto is actively involved in Indonesian Society of Petroleum Engineers (IATMI), Society of Petroleum Engineer (SPE) and ITB Alumnae Society.

Rachmat A. Abdellah, BSc, MM – Executive Director graduated in 1986 with Bachelor of Science degree from Petroleum Engineering, Colorado School of Mines and in 1992 with Master of Management degree in International Trade from University of Indonesia.

He has 30+ years’ experience in the Energy Industry started working for Unocal Indonesia Company in 1986 and had many assignments in Balikpapan, Jakarta, Houston handling subsurface projects, gas and LNG contract negotiations in Indonesia, LNG receiving terminal and Power Plant project development in Tamil Nadu, India. His last position in Unocal Indonesia Company in 2005 was Vice President of Gas Marketing and LNG and member of the Business Unit Management Committee.

With the acquisition of Unocal by Chevron, he joined Chevron and held many positions as GM LNG, Gas Supply and Lifting, Vice President Planning and Technology, Deputy Sr. Vice President Asset Development, Sr. Consultant and GM East Kalimantan PSC.

He retired in 2018 from Chevron Indonesia Company and has since being involved as Independent Energy Consultant in Singapore International Arbitration Court providing opinion on East Java gas contract dispute and in leading technology deployment in Oil and Gas Artificial Lift and Artificial Intelligent Machine learning.

He is member of Society of Petroleum Engineer, Indonesian Society of Petroleum Engineer (IATMI) and Colorado School of Mines Alumni Association.
Harris H. Djauhari, BSc – **Project Management Director** graduated from Petroleum Engineering, The University of Texas at Austin in 1985, and 30+ years of broad oil and gas experience with PT. Chevron Pacific Indonesia (CPI). Before retiring, Harris held the position of Sr. Vice President Operations in Rokan Block PSC of 300+ MBOEPD production from 108 Oil & Gas Fields.

Harris’s strengths are managing the light crude oil and heavy crude oil assets development, and management in the areas of Reservoir Engineering, Integrated Production System Optimization, Oil & Gas Field Management, Managing Workover Rig Operations, Artificial Lift and Production Stimulation Technology, Business Supports (Data Management, Business Planning, Quality Improvements, and Vice President of Human Resources in Chevron IndoAsia Business Unit), Project Management, and Senior Vice President Operations. Recently, Harris provides project execution consulting for Waterflood Projects Development and Optimization, Enhanced Oil Recovery (EOR) Application Screening of various reservoir characterization, and Strategic Decision Review as well as Oil Fields Environmental Clean-Up Projects.

After retiring from CPI, Harris has held the position of Project Director in PT. Binaguna Adi Sejahtera (BAS), an Artificial Lift System Service Provider in 2016 – 2019, and the position of President Director in PT. Envirorisk Management Indonesia (ERMI), an Environment and Risk Management Consultant in 2017 – 2020.


Bambang Pratesa, BA, MSc – **Business Development Director** has more than three decades global experience in Energy industry. Bambang is well-rounded hands-on experience in crisis management ranging from emergency response on Field Operations, Industrial Relations and Legal cases. Bambang has in-depth planning process ranging from world’s largest steam flood project, Business Unit, Asia Pacific region to Corporate Head Office in California.


He is geologist by education, graduated from McKay School of Mines at Univ of Nevada, Reno. Then Bambang completed his Petroleum Geology graduate study at Royal School of Mines - Imperial College, London.
Company Administrative Facts

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Website
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Established
May 2002 in Jakarta, Indonesia

Article of Association
No. 15, dated 6 May 2002
Notary Sutjipto SH
Rev 1 – No. 02, dated 14 Sept 2012
Notary Yenny Sutikno, SH. SpN. M.H.
No. 01, dated 11 Juni 2020
Notary Dr. Nuraini Zachman, SH, M.Hum

Business Permit
SIUP No. 09114-04/PM/1.824271 dated 23 Oct 2012
Ministry of Industry & Trade,
Republic of Indonesia

Tax No. (NPWP)
02.225.399.1.012.000

Member of INKINDO
12508/P/2632.DKI
PENConsulting Services

PENConsulting is a lean and effective “process consulting” company with a pool of Independent Consultants who have competency needed for various projects. The typical PENConsulting professional has over 20-25 years’ experiences in the industry.

PENC consultancy services in the energy business cover oil and gas, coal, small hydro-electric, geothermal and other renewable energy as well as electricity. PENConsulting conduct policy studies, pre-feasibility and feasibility studies for energy project development, due diligence for farm-ins and acquisitions, business and regulatory advocacies.

PENConsulting has experts to conduct energy efficiency and conservation studies, including carrying out energy audits, and has capacity to act as an Energy Service Company (ESCO), in the supply and demand sides.

PENConsulting services in Human Capital and Organization Development embrace competency base human resource development from recruitment, building competency to meet organizational needs, and developing effective and/or efficient new or improved organization in the energy sector through a rigorous study of process, structure, people, and measure.

Energy Policy & Regulatory Studies

PENConsulting performs various studies on energy policies and regulatory advocacy. Our executive consultants are very well in-tune with the prevailing energy policies and regulations landscape. Since we frequently participated, advised, and contributed to the energy policy development through energy associations, it provides us with first-hand knowledge and understanding of the prevailing policies and regulations, which can help our clients obtain a better understanding of the policies and regulations impact on their business.

Business Advocacy

PENC provides both broad-based and detailed technical, commercial and strategic advice to clients across the upstream, midstream and downstream sectors of the energy industries including oil and gas and geothermal, using a project team approach. The firm’s portfolio includes reservoir appraisal, advice about field development, subsurface and heavy oil expertise, facilities evaluation, refining assessment, as well as integrated technical and management services. The integrated technical and managerial services include appraisals, geological and geophysical studies, engineering analysis, reserves assessment, management services, operational audit and manpower recruitment. PENC also provides independent certifications of oil and gas reserves and expert witness services or arbitration services for projects that involve legal, technical, or contractual disputes.

Business and Financing Studies

Advising clients in various financial related matters in business including but not limited to fund raising, debt and corporate restructuring, project financing assessment, and financial due diligence for business acquisitions, mergers and partnerships.
Due-diligence Assessment

PENConsulting conducts comprehensive and focused due diligence assessments that fit specific client objectives. We conduct due diligence services for financial institutions, investors and banks on project financing proposals to assess the legal/contractual, commercial/economic, and technical aspects and associated project risks. We also conduct due diligence services for company acquisitions, farm-in/farm-outs, and joint ventures to evaluate the commercial, legal and technical features of the target venture and provide risk analysis relevant to the client’s business.

Pre-Feasibility and Feasibility Study

PENConsulting performs pre-feasibility and feasibility studies for energy development projects and special engineering projects, such as process manufacturing projects as well as plant operation improvement projects. We provide an extensive analysis and evaluation of the potential of a clients proposed project by objectively and rationally identify the strengths, weaknesses, opportunities, and threats of the proposed project or business venture. PENConsulting undertakes pre-feasibility/feasibility studies in the energy development area including but not limited to Independent Power Projects (IPP), upstream/downstream oil and gas projects, specialized processing plant projects, and energy infrastructure projects.

Project Development and Technical Supports

PENConsulting energy project development experts provide services to identify, evaluate, select, and implement specific energy industries and process plant projects, from evolving regulatory and permitting considerations to engineering and market uncertainties. We understand the risks and challenge the project developer face in evaluating investments in energy and process industries projects. We assist project owners, investors and contractors to clarify and manage uncertainties in energy resources, project costs, development strategy and conceptual design, and evolving regulatory, permitting and marketing. PENConsulting can be the partner of the Owner in the development of energy and process plant projects including fossil-fueled power plants, cogeneration projects, integrated power and water treatment plants, and hydro-power projects.

Project Management

In providing project management services PENConsulting acts as the extension of Owner’s organization to deliver its consulting, engineering excellence and construction expertise to its customers. We have developed and refined state-of-the-art project management systems, procedures and specifications for the management and control of engineering, procurement, construction and commissioning of energy and process industry projects in line with industry-recognized best practices to ensure cost effective attainment of project scope and schedule.

As a consultant in Project Management, PENConsulting can help our client’s organization to objectively assess the current processes against industry-recognized best practices and identifying gaps in the project management practices, which will focus on improvement opportunities to drive the business performance results. These may include meeting with clients to identify needs, creating strategies to meet those needs, going over ideas with clients, budget management and executing the necessary actions to reach intended goals.

Energy Management, Efficiency and Conservation Studies

PENConsulting extends consultancy services in the energy management on the supply side as well as the demand side which encompasses resource conservation and energy efficiency, climate protection,
and cost effectiveness while ensuring continuity of energy supply and access to good quality of energy. PENConsulting performs energy efficiency and conservation studies, including conducting energy audits and developing energy efficiency solutions, with capacity to act as or engage with an Energy Services Company (ESCO). PENConsulting offers consultancy services for comprehensive energy solutions including feasibility studies, designs and implementation of energy savings projects, energy conservation, energy infrastructure outsourcing, power generation and energy supply, and risk management as well as developing the financial engineering and energy performance contract.

**Energy Facility Operation and Performance Audit**

PENConsulting senior consultants have accumulated more than 20 -25 years of experience in the operation of multi-national and/or large national energy business in various capacities. We are well qualified to conduct technical audit for the operations and performance of critical facilities in the electricity, oil and gas, geothermal and other renewable energy sectors to ensure compliance with prevailing safety, environmental regulations and best practice; meeting project financing and loan conditions; and attainment of sustainable business and operational objectives. We review operation and engineering data, evaluate field performance, help resolve the problem, and produce recommendations to improve the facilities and performance, and mitigate risk.

**Data Acquisition and Analysis**

PENConsulting performs data acquisition and analysis for our clients (primarily for foreign clients requiring local knowledge) when detailed or further analysis is needed in their research or due diligence activity. In most cases, due to our proactive mindset, acquiring required data. PENConsulting already possess a wealth of industry resources such that acquiring data that we don’t already have for client specific, in most cases, require a relatively short turnaround time. This makes the bulk of the work on the analysis part, which our experience in the industry allows for a more applicable conclusion.

**Specialized Engineering Project Advisory and Technical Support**

PENConsulting consultants are comprised of individuals that also have deep engineering skills and experience. PENC’s personnel could bring extensive experience in the energy industry gained from numerous projects around the world to every project. Their diverse backgrounds include employment with international and national oil, geothermal and power companies. They will bring extensive experience in the energy and other industries gained from numerous projects around the world to every project. These include refinery project, LNG receiving terminal, oil storage, down site selection of smelting plant and many more.

**Power System Studies**

PENConsulting power engineering experts offers power system studies for industrial and utility integrated power system. The scope of the studies includes but not limited to: (i) Load flow and stability studies; (ii). Short circuit studies; (iii) Reactive power optimization / power capacitor sizing; (iv) Power quality including assessment of voltage drop, losses, transient analysis, and harmonics; (v) Protection system and equipment protection studies, including relay coordination and motor starters; (vi) Reliability, load shedding and contingency analysis; and (vii) Power supply and demand balance and forecast.
Corporate Business Strategy Formulation

PENConsulting experts could provide consultancy services for review and analysis of Corporate Business Strategic Plan in the energy sector and/or facilitate the formulation of Corporate Strategic Plan, incorporating risk analysis and mitigation, value added strategy, and resource alignment to ensure achievement of strategic objectives and corporate shared vision. We facilitate the process through revisiting and reformulating corporate shared vision, mission, and values; review current internal and external conditions through analysis of Strengths, Weaknesses, Opportunities and Threats (SWOT) and business environment scanning; develop strategic intents and corresponding objectives; and prepare strategy deployment plan.

Social and Environmental Studies

We conduct social and environmental impact and mitigation studies for mining and energy projects as well as industry development, including gender equality, corporate social responsibility, emission air quality, industrial waste and waste minimization, and solid waste disposal.

Human Capital and Organization Development

PENConsulting services in Human Capital and Organization Development embrace competency base human resource development from recruitment, building competency to meet organizational needs, and developing effective and/or efficient new or improved organization in the energy sector through a rigorous study of process, structure, people, and measure. As a process consultant, we work with our clients to map key business processes or process flow charts that produce clients’ products or services, design organization structure to effectively embark on the processes, equate with competency of people to carry out their respective task, and develop individual and team key performance indicators.

Seminars, Conferences, and Workshops

PENConsulting is always ready to share our leadership thoughts in the energy industry. Clients often ask us to facilitate workshops on relevant topics where we would provide content and knowledge as well as sharing firsthand experience so our clients are fully advised on the topics we cover. Furthermore, PENConsulting regularly contribute to various conferences in the oil & gas, coal, geothermal and other renewable energy, and electricity industry throughout the world and welcome client invitation to be their guest speaker.

*PENConsulting handles each process consultancy work on a project portfolio basis, championed by one of our directors. In carrying out our process consultancy services, PENConsulting offers joint team approach with clients to implant a sense of belonging and share our knowledge among our clients’ staff to the processes that implement outcomes of our consultancy services and thus ensure attainment of satisfactory results*
PENConsulting Commitment

to Control and Supervision of Safety, Health & Environment

General

❖ PENConsulting hold high esteem to its corporate values, which are:
  o Comply with prevailing laws and regulations
  o Search for the best possible intellectual, innovative, and professional avenues that add value to our valued clients
  o Adhere the highest standard of business ethics and good corporate governance
  o Serve as a good, reliable and trusted corporate citizen
  o Give priority to customer satisfaction in an objective and proportionate manner
  o Emphasize the important aspects of safety, energy efficiency, and utilization of environmentally friendly energy

Managed and run by former multi-national company executives and professionals, each with more than 25 – 30 years of experience in the energy industry, PENConsulting team adhere the highest standards for health, safety, environment, and security.

Ethics and Conflict of Interest

❖ PENConsulting hold fast the highest standard of business ethics and good corporate governance.
❖ PENConsulting oblige its management and professionals to keep away from any conflict of interest that could jeopardize the trust to the Company and our client business undertaking.
❖ PENConsulting fully adhere the generally accepted code of ethics.

Preventing Substance Abuse

PENConsulting is a small consulting company. We know each other well and refrain from any substance abuse.

Security Requirements

PENConsulting take serious act to safeguard the security of our and client’s personnel and properties and confidentiality of information trusted to us.

Reports to Public Authority

PENConsulting standing values are: “comply with prevailing laws and regulations” and “serve as a good, reliable and trusted corporate citizen”.

Coaching and Training

PENConsulting teams are professionally competent and have extensive related experience in the energy sector to offer process consultancy services whereby we work in cooperation with assigned client teams as advisors, coaching/training providers and/or support experts to carry out our undertakings and ensure that we accomplish our tasks and meet our client satisfaction.
Code of Ethics

Our approach

We believe that ethical conduct is an utmost necessity for sustainable consulting business

We are Committed

❖ Requiring high ethical standards of everyone who acts on behalf of the company
❖ Acting within the law and comfortably within our ethical rules and guidelines
❖ Ensuring that our ethical best practices are known and are supported by necessary exercises

How we work

❖ We treat ethics as an integral part of our business activities
❖ We have leaders who demonstrate our ethical standards by what they say and do
❖ We comply with applicable laws and regulations in all our undertakings
❖ We are open in dealing with ethical issues and take up ethical dilemmas with our team immediately
❖ We spend sufficient time on difficult ethical decisions
❖ We create ethical awareness by regular discussions and transfer experience
❖ We work in a systematic manner to ensure compliance
❖ We consider disciplinary action in response to breaches of our ethical rules
❖ We run an ethic help-line to ensure ethical concerns can be raised
❖ We continuously map risks relating to our ethical values
❖ We reduce risk through in-depth knowledge of our clients, partners, and networks
❖ We expect our clients and partners to have high ethical standards
❖ We work with government organizations, industry associations, civil society and business associates to develop best practice.
Among PENConsulting Professionals

Dr. Ir. Herman Darnel Ibrahim M.Sc. (Master Consultant) holds Electrical Engineering degree from the Bandung Institute of Technology (ITB), Indonesia, and Master Degree in Power System Analysis from the Manchester University, UK. He obtained his Ph. D. degree in Environmental Policy for Power System Development from ITB. He was appointed as Adjunct Professor at the Universiti Tenaga Nasional Malaysia in 2009. Dr Herman Darnel spent 30 years of his career with PLN, the State Electricity Enterprise. He was a Director of PT Indonesia Power, a subsidiary of PLN, and PLN Corporate Director of Transmission & Distribution 2003-2008. He was appointed member of the Indonesian National Energy Council 2009-2014. Dr Herman Darnel has been active in professional organizations, including Vice President of the International Geothermal Association, President of the Indonesian Geothermal Association, Director of the Indonesian Electrical Power Society, and Chairman of the Board of Experts of the Indonesian Renewable Energy Society. In 2006, he co-founded and became Chairman of the Indonesian National of CIGRE and was elected Chairman of Asia Oceania Regional Council of CIGRE 2008-2010. He chaired the World Geothermal Conference in Bali in 2010 and is chairing the World Renewable Energy Conference in Bali in 2016. Upon his retirement from PLN, Dr Herman Darnel has provided consultancy services to various international institutions and business.


Andri Doni, Dipl. Ing. (Sr. Executive Consultant). Upon graduation with Diploma Engineering for High Voltage and Electrical Equipment from Institut of Technische Hochschule Karlsruhe, Germany, he worked for Asea Brown Boveri (ABB) in Mannheim, Germany as a member of the transmission & distribution research team. He returned to Indonesia and worked as a member of the energy planning team at the Agency for the Assessment and Application of Technology (BPPT) from 1990-1993. He then held various management and executive positions, including Marketing Manager at PT Boma Bisma Indra, member of the Agency for Strategic Industries) 1993—1995; Director of Engineering and Business Development PT Geslo Energy 1994-1997; Country Manager for Power Generation of Rolls Royce International 1999-2011; Operation Director of PT Bakrie Power; and founded and became CEO of PT Basra Hydro Power, an IPP in hydropower Projects, and PT Panji Muara Raya since 2014 to presents. Andri has been Vice Chairman of the Indonesian
Electrical Power Society (MKI) since 2015; he was Executive Director of MKI 2008-2014, and Director of International Business Cooperation of MKI 2011-2015. Andri is a certified professional engineer of the Indonesian Engineers Association. He was President of the CEPSI International Conference and Exhibition in Bali in 2012.

**Bambang Wiranto MBA (Executive Consultant),** Bambang Wiranto or known as “BW” graduated with a BSc degree in economics from Airlangga State University in Surabaya at 1970 and in 1985 BW obtained master degree (MBA) from the Indonesia Management Development Institute (IPMI) in Jakarta. Soon after graduated from Airlangga State University, he joined the Indonesia State Oil and Gas Company (Pertamina) and held various strategic positions mostly within the Directorate of Finance among others: Director for Corporate Budget Division (1995-1999); Director for Corporate Finance Division (1999-2000) and Director for Corporate Planning Division (2000-2001). In the year of 2001, BW was appointed as Executive Senior Vice President Director/CFO for Administration & Finance of PT Elnusa (a subsidiary company of Pertamina). In total he spent 35 years of service with Pertamina and its subsidiary company and most of his experience is in the area of, budgeting, project financing and planning. BW also obtained several overseas trainings among others at University of Texas at Dallas (USA), International Financial Management Seminar at CEI Geneva, Bank of Tokyo Seminar in Tokyo and General Electric (GE) Asean Leadership Workshop in Singapore. BW also negotiating team member such as for: Project Financing for LNG Project, Refinery Project, Pipeline Project and Gas Sales Contract to Singapore. For his achievement he has been granted with “Satya Lencana Wirakarya” from the Government of Indonesia.

**Dr. Ismadi Bugis (Executive Consultant),** graduated with a BSc degree in Electrical Engineering from North Sumatera University in 1982. Subsequently, he obtained Master’s and PhD’s degree in Electrical and Electronics engineering from University of Strathclyde UK in 1992 and 1995 respectively. His major specialization is in power electronics and power system. His carrier begins in 1982 when he joined PT. Purna Bina Indonesia in Arun LNG Project. Two years later he shifted to the BPP Teknologi and has been assigned as head of Computer and Data Acquisition subdivision at Laboratory for Strength of Material and Structure located Puspiptek Serpong National Research Centre. Following his early retirement from the BPP Teknologi in the year 2006, he joined the Universiti Teknikal Malaysia Melaka as associate professor in Power Electronic and Power System. Currently, he has been assigned as GM Portfolio Electrical and Renewable Energy of PT. Pranata Energi Nusantara Consulting. Dr Bugis has involved in some consultancy service such as performance audits on several power plan of PT. Indonesia Power.

**Ir. Widiatmoko M.Sc (Executive Consultant),** spent 23 years of his professional career with PT Caltex Pacific Indonesia and Amoseas Indonesia Inc. after receiving his Electrical Engineering degree from the Bandung Institute of Technology in 1982. He carried out broad range of assignments focusing on power system operations, engineering and project development including project economic evaluation, commercial terms and price negotiation for large-scale gas fired and geothermal power plants.

He had been involved in project development of 300 MW Co-generation plant and a 110 MW geothermal power plant. Recently, he provides consulting services for the development of 700 MW combined cycle power project in Nigeria and CDM project for 110 MW geothermal power project in Indonesia. He obtained his master degree (MSc) from Union Collage, NY (1988) and is active in professional societies such as MKI, API.
Dr. Ir. Supriadi Arief (Executive Consultant). He joined PT Caltex Pacific Indonesia (CPI) in 1975 and serves this subsidiary company of Chevron and Texaco for 30 years. Supriadi held a broad range of assignment including Sr. Explorationist, Head Geophysicist, Assistant to Manager Geophysics of Texaco USA, Chief Geophysicist, Area Manager Development & Production, General Manager Exploration and General Manager Exploration, Production and Technology. Following his retirement from CPI, he serves as Vice President Exploration, New Ventures and Development for several Independent Oil and Gas Companies. He obtained his BSc Degree in Physics in 1970, and graduated from Geophysics Department, Gajah Mada University, Jogjakarta, in 1974. He took post graduate program in Petroleum Geology at the University of Houston in 1981 and Seismic 3D-Component at Colorado School of Mines in 1988. He obtained his Master Degree in Finance – Focused on Petroleum Economics in 2005, and Doctor Degree in Management – Focused on Good Governance and Good Corporate Governance from Satya Gama University, Jakarta, in 2008. He is a certified Chevron’s Project Management, and a member of SEG, AAPG, IPA, IAGI, IATMI and HAGI. He has been directly involved in oil and gas exploration and new ventures evaluation in many different basins in South East Asia, Australia, New Zealand, North Africa, Middle East and USA. In addition to conventional oil and gas exploration and production, he also actives in conducting studies and exploring un-conventional gas (CBM and shale gas) and geothermal.

Dr. Ir. Nanang Rohadi (Executive Consultant) obtained his Bachelor and Master degree in Electrical Engineering from University of Indonesia (UI) and the Bandung Institute of Technology (ITB) in 1998 and 2005 respectively. He obtained PhD degree in Electrical Engineering in 2013 from University of Adelaide, Australia, with the main focus in power system protection. His career started by joining Cegelec Indonesia in 1990-1997 for handling power system SCADA project for area control centre-1,-2,-4 as well as for JCC Gandul control centre of PLN with broad assignment focusing on SCADA database maintenance, site inspection, site commissioning, 150 kV wiring control and relay panel adaptation. In 1997, he joined Bukaka Fuji Electrical Company as a senior electrical engineer to handle GIS 150 kV substation project. Currently he is also a lecturer in electrical faculty of electrical engineering for the subject of control system engineering.

Ir. Fathor Rachman, MSc (Independent Executive Consultant) graduated from ITB Electrical Power System engineering in 1979 and obtained his Master Degree in Energy Management from the New York Institute of Technology, New York in 1991. He spent earlier of his career at the Agency for Research and Applied Technology (BPPT) as a researcher, moving forward as coordinator of energy study and planning group to assess and analyze national energy supply and demand projection using various tools, such as ESPM (Energy Supply Planning Model), MAED (Mathematical Analysis for Energy Demand), DEMI (Demand Energy Model for Indonesia, and MARKAL (Market Allocation Model. In 1989 he was appointed coordinator of co-generation development to analyze potential of co-generation in Indonesia and develop corresponding development strategy.

In 1989, he was appointed as an energy analyst at the ASEAN Center of Energy to formulate alternative energy supply and demand projection for the ASEAN countries prior to his 8-years assignment at the OPEC Secretariat in Wien, Austria as analyst of alternative energy sources to represent Indonesia. Upon his return from Wien, he subsequently held various position in the energy sector: Head of Oil and Gas Marketing Development Office BPMIGAS, Head of Marketing Division BPMIGAS, Executive Advisor BPMIGAS, Head of Expert Staffs BPMIGAS, and member of Business Development Committee.

Fathor is an active member of the Indonesian Electrical Power Society (MKI), chairing Strategic Studies on electrical business. He has written and presented to National Conferences several papers on energy, co-generation, gas and LNG issues.

Nurman Djumiril, SH (Independent Executive Consultant). Mr. Djumiril received his Bachelor of Law (majoring in International Private Law) from the University of Indonesia in Jakarta in 1980 and an advanced accreditation from the Southwestern Legal Foundation on International and Comparative Law at the University of Texas in Dallas (USA) in 1983. In 2008 Nurman was accredited to appear before the Tax Court as a licensed tax attorney. He started his career as an attorney at Unocal Indonesia Oil Company in 1981, rising to VP and General Counsel in 1999. Upon merger of Unocal to Chevron, he served as company executives in various extracting industries, including Chief Counsel in Power, LNG and Gs Marketing with Chevron Indonesia; Managing Counsel – ExxonMobil Indonesia Inc.- Cepu; Director and Senior Vice President Corporate Affairs and General Counsel PT INCO Tb; Vice President External Relations and General Counsel – Total Indonesie E&P; and Special Advisor to MEDCO E&P and Special Project. He was Chairman of IPA Special Task Force Committee and Vice Chairman of IPA Non-Conventional Gas Committee. Djumiril is a Vice Chair Oil & Gas Upstream Permanent Committee KADIN. He is an arbiter at the Badan Arbitrase Nasional Indonesia (BANI) and member of the BIMASENA Energy Executive Team.

Nedia Permata Hasan, BSc (Sr. Staff Independent Consultant) graduated from Texas Christian University in Fort Worth, Texas with BS degree in Environmental Science. She is a certified NEBOSH Safety Management Science and ISO 14001 Auditor. She spent earlier of her career as sales engineer for oilfield specialty chemicals and oil well cement with PT Elnusa. Then she joined Kondur Petroleum SA for 11 years, rising her career from Environmental Engineer to Senior Health, Environment and Loss Control Officer. She joined Petronas Carigali Tanjung Jabung Ltd. in 2005 as Environmental Officers and has been promoted to Senior Health, Health, Environment and Security Manager since 2016

Raden Edi Sewandono (Senior Staff Consultant) has more than 20 years working experience in multidiscipline environments including mechanical/electrical, instrumentation and control, and electrical engineering works for power plant, industrial, utility and oil and gas projects. He graduated from the Institute of Technology, Surabaya, with electrical engineering degree. Edi started his career at Schneider Manufacturing in Batam as Technical Specialist, continued as a project engineer at an engineering company for 11 years and Project Advisor at EPC Contractors for 5 years. His experience as a freelance consultant includes working in coal power plant projects with capacity ranging from 2x100 MW to 2x1000MW and geothermal power plants with ELC Indonesia and WIKA Jabar. He is a member of the Indonesian Electrical Power Society (MKI) and Executive Director of the Indonesian Infrastructure Society. Edi has been a certified Senior Expert (Ahli Madya) from the National Institute of Construction Services since 2014.
Dr. Ing. Dendy Adityawarman (Executive Independent Consultant) graduated from Institute Technology, Bandung with Chemical Engineering Degree (1998). He received his MSc degree in Chemical Engineering (Process Design and Safety Engineering) from Otto-von-Guericke University, Germany (2000) and PhD in Chemical Engineering (Process and Systems Engineering) also from Otto-von-Guericke University, Germany in 2007.

Dr. Dendy Adityawarman is a lecturer at the ITB Chemical Engineering Dept. on Heat Transfer, Numerical Methods and Statistical Analysis in Chemical Engineering. He supervises final students on plant design of Dimethyl Ether from Methanol and Methyl Ether Cellulose and student industrial internships on Fertilizer and Hydrogen Peroxide Plants.

Dr. Dendy has provided consultancy services to various process and oil and gas industries as project leader, risk management, safety evaluation, material selection, front end engineering design, project design, and process evaluation. He was involved in studies on LNG distribution in North Sumatera and West Java.

Dr. Dendy’s joint papers appear in international journals (Chemical Engineering Science and Nanotechnology) and presented at various international professional conferences.

Dr. Agus Wismakumara (Executive Independent Consultant) obtained his engineering degree from Institute of Technology Bandung, majoring in fluid mechanics (1986) and his PhD degree in mechanical engineering (thermo-fluids) from University Swansea – Wales, United Kingdom (1992). Dr. Agus Wismakumara holds a number of professional certifications, among others: K3 Construction Management System, LPJK Construction Competency Assessor, LPJKN Mechanical Engineering Specialists, Energy Auditor in Industry, Green-ship Professional from Green Building Council Greenship BAPPENAS Document Officer (L2 Certificate).

He attended various international workshops on vocational training and higher learning educations. His career involved providing consultancy services and professional expertise on environment and waste management studies, management for mechanical and electrical EPC and skyline transportation projects, engineering of cooling and de-humidification of large fertilizer warehouse, feasibility study of sand and stone mining company, and hydrocarbon retrofitting projects. He was also involved in the development and rejuvenation studies of poly-techniques in Indonesia and appointed Managing Director of Bandung State Poly-technique School for 4 years.

Dr. Agus Wismakumara is an active member of Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHARE), Ikatan Ahli Bangunan Hijau, Green-ship Professional Engineer – Green Building Council Indonesia (GBCI), and Asian Heat Pump Association.

Bagiono Djoko Sumbogo (Executive Consultant) attended ITB Electrical Engineering Faculty toward Sarjana 1 degree and continue his electrical engineering study at Ecole d’ Electricité Industrielle de Marseille (EEIM), Marseille, France, where he graduated in 1965. In 1974 the school became Ecole Supérieure d’Ingénieur de Marseille (ESIM) and since 2006 Ecole Centrale de Marseille.

Bagiono spent most of his career in government services, with Ministry of Education and Culture MEC), to develop and advance technical vocational education and training. He helped develop the first 4-year vocational high-school (STM Pembangunan) in Indonesia in Semarang, Central Java.

He became the director of the school from 1971-1977. Bagiono was Provincial Head of the North Sumatra MEC from 1977 -1979. From 1979 -1986, Bagiono held Project Director position for ADB
loaned (USD 380 million) Technical Vocational School Development in Indonesia. He also involved in Vocational Teachers Upgrading School and became the Assistant Director of the school from 1979 - 1983.

Bagiono was appointed by the Government of Indonesia to become Cultural Counsellor at the Indonesian Embassy in France from 1994-1996. He received the Knight of the Order of Academic Palms from the Prime Minister of the Republic of France, 2011 and Officer of the National Order of Merit from the President of the Republic of France, 2014.

Bagiono is still active in various advisory capacity as expert in vocational training development. He has been Senior Advisor to the Director, SEAMOLEC, South East Asian Regional Open and Distance Learning Centre, one of the center under the auspices of SEAMEO, South East Asian Ministers of Education Organization since 2008.

**Ms. Dewayan Diaw Savitri (Sr. Staff Independent Consultant)** is an experienced gender specialist in various application such as social safeguard for renewable energy projects; mainstreaming strategy issues in vocational education; analysis on landscape and life-scape, social inclusion and gender equality relevant to environmental issues; gender activities for water and sanitation projects, women empowerment and migrant workers projects. She has been resource person/facilitator/trainer for workshops/seminars and trainings in area of micro-economic, employment, humanitarian, gender mainstreaming strategy. She was a grant manager in area of democracy and civil society, health, environment, micro-economic and NGO networks funded by USAID, USDA and DFID; and an experienced researcher on irrigation, income generating, water and sanitation.

Dewayani received her BS degree in Social and Political Science, Department of Public Administration of University GAJAHMADA and Master degree in Woman Study of University of INDONESIA. She participated in national and international capacity buildings on gender and environmental issues. She has written and published a number of papers and guidebooks relevant to gender issues.

**Aris Sudyanto Arnadi (Sr. Staff Independent Consultant)** is a mechanical engineering graduate of GAJAHMADA University, focusing on energy conversion. He spent his career in the Engineering, Procurement and Construction in mechanical engineering and as project engineer, site manager, project manager and project director in the oil and gas upstream and downstream, including production facility, refinery, pipelines, LPG and LNG plants, process manufacturing, and power industry.

Aris worked for PT Elnusa (TbK) through 2002 and became independent consultant in 2002. In his capacity as independent consultant, has conducted asset auditing, assessment and valuation and safety audits of in oil and gas installations for project financing and asset take-overs.

**Ir. Susanto Wibowo (Sr. Staff Independent Consultant)** is a graduate of Electrical Engineering Faculty of University of Indonesia (1981). He spent his career as electrical engineer at PT PLN (Persero), the state electricity enterprise, starting as an engineer at PLN2B Java-Bali throughout his retirement in 2012 as Division Head of Transmission, East Indonesia at the corporate head office. His senior positions at PLN include head of operation development Java-Bali System, head load dispatcher PLN Northern Sulawesi and Java-Bali Systems, System Planning Manager, and Division Head of East Indonesia Transmission.
Susanto Wibowo has accumulated power system engineering studies for small and large system. Upon his retirement, he has worked as a consultant to PLN for conducting feasibility study and system analysis for photo-voltaic centralized and scattered power generation projects, power evacuation from two Geothermal Power Plants, one 2x300 MW and three 2x1000 MW Coal Fired Power Plants, and 900 MW Hydro-electric Power Plant, and feasibility study and system analysis of scattered renewable energy power plants.

Ir. Johann Dimalouw (Executive Independent Consultant) is a graduate electrical engineer from ITB (1973) and hold Petroleum Professional Diploma from OGCI in Tulsa, Oklahoma (1987). Johand spent his 30-year employment career with PT Caltex Pacific Indonesia (now PT Chevron Pacific Indonesia), starting as Supervisor Gas Turbine Power Plant in Duri, rising to Gas Turbine Maintenance Senior Engineer, Assistant Superintendent Power Generation and Transmission Department, Coordinator Organization and Cost Studies, Manager General Engineering, District Manager Duri Steam-flood, Manager Production Duri SBU, General Manager Technologies and Drilling Business Unit, and Vice President Support Operations. Upon his retirement from CPI, he worked in engineering design, construction and operation of 62 MW CNG Power Plant Project in Jakabaring, Palembang. He is also providing advisory consultancy in power system development to the West Papua Government.

Theo Satria (Executive Independent Consultant) is a professional in finance with more than 20 years of experience in the financial industry and other industries including coal, chemical and paper manufacturing. He has worked in private as well as government owned companies. He is a graduate of a well-known Finance and Economic Institute in Jakarta (STIE PERBANAS). He spent his early career with CIMB-Niaga Bank, was finance director, managing director and President Director of various financial companies and industries.
PENConsulting Experience:
Oil & Gas Industry

- Facilitate establishment of Strategic Partnership between two companies in the Upstream Oil & Gas Business
- Conduct due diligence on behalf of emerging energy companies to evaluate contractual, technical and economic aspects for farm-ins/acquisitions of production sharing contract companies’ exploration and production portfolios
- Develop acquisition strategy for PSC corporate ownership and operating license and develop operating organization for exploratory project undertaking
- Facilitate, under retained services agreement, planning, organizational development, and procurement processes for the execution of exploratory drilling commitment of a newly acquired PSC block
- Provide independent assessment of offshore oil and gas resource in the Natuna Sea, covering the technical, commercial, financial and contractual aspects, for the purpose of financing a major development project
- Conduct performance review of offshore oil field production development project and its subsequent operations during the term of the project financing agreement
- Conduct data acquisition and evaluation, on behalf of emerging energy companies, for participating in the tendering process of new upstream oil and gas acreages offered the Government of Indonesia through direct proposal
- Develop acquisition strategy to take over upstream oil and gas production operation contracts
- Conduct due diligence for LPG Plant Expansion Project Financing
- Evaluate data and documents for participating in Indonesia PSC Bidding Round 2006 of three direct proposal and one tender exploration acreages.
- Evaluate technical, contractual and economic aspects of a Natuna Sea offshore oil field development project refinancing
- Conduct project performance monitoring and management on behalf of a consortium of lenders on step out development drilling and production operation to mitigate risk and ensure successful undertaking.
- Facilitate business processes for conducting downstream oil and gas supply and trading projects
- Conduct due diligence for refinancing offshore work-over and infill drilling project
- Manage PSC Block Divestment Process
- Provide retained consultancy services for foreign investors to establish Coal Bed Methane (CBM) Business in Indonesia
- Conduct pre-feasibility study for oil storage river terminal in Riau Province
- Conduct pre-feasibility study for a topping-off refinery in Riau Province
• Conducts Basic Engineering Study of Compressed Natural Gas (CNG) On-shore Shipping and Receiving Terminals to complement a feasibility study of Marine CNG transportation
• Review Feasibility Study of CNG Off-shore Shipping Terminal, On-shore Receiving Terminal and associated Marine Transportation to cover technical, commercial and regulatory aspects
• Conduct critical facility audit for an off-shore production platform
• Conduct Study on LNG and Gas Supply and Distribution Reliability for PLN and Industrial Consumers in Eastern Indonesia Regions
• Develop synopsis of EOR Briefing for Oil and Gas Senior Executives and Certified EOR Professional Curriculum
• Provide consultancy services to an oil and gas company in Madagascar, through its Principal Company, to support EOR development using steam-flood for its heavy oil field with 2 billion barrels contingent reserves. The services cover among others recruiting services for professionals and technical personnel with steam-flood experience, studies on geology, production forecasting tool, steam injection profile, operation and project organization structure, etc.
PENConsulting Experience:
Coal & Mining Industry

- Develop Coal Sales & Purchase Contract. Present Overview on Coal Supply Potentials and Business Opportunities; Facilitate Development of Steam Coal Purchases & Sales Agreement for 500,000 ton/year
- Conduct Technical & Commercial Evaluation of Project Financing Proposal for four (4) Medium Size Coal Fired Steam Turbine Power Generation Projects for financial institution
- Provide an overview of Indonesia bauxite and nickel mining business opportunities for foreign investors
- Participate in the study on project financing and electricity pricing model of coal fired power plant projects.
- Develop market for utilization of Coal Water Slurry (CWS) to substitute HSD/MFO in Steam Power Plant and Steam Boilers in industries
- Conduct Pre-Feasibility Studies in energy saving by substituting liquid fuel with coal water slurry in 2x50 MW and 2x65 MW steam turbine power plants
- Develop CWS business opportunities for industrial boilers in Pakistan
- Provide technical consultancy services to a 2x55 MW coal fired power generation IPP to resolve disputes on Power Purchase Agreement
- Provide professional consultancy services to a 300 MW Mine-mouth Coal Steam Power Plant IPP for renegotiation of Coal Supply Agreement (CSA)
PENConsulting Experience:
Geothermal Industry

❖ Provide Consultation for 3rd Phase Development of 110 MW Geothermal Business Expansions and Energy Sales Contract Negotiation
❖ Deliver Special Presentations to Companies Having Interest in Expanding their Energy Value Chain Business into the Geothermal Power Industry
❖ Conduct Due Diligence for a 300 MW Geothermal Power Project Acquisition
❖ Develop Negotiation Strategy for the Long-term Settlement of Energy Sales Contract of a Major Geothermal Power Project (110 – 400 MW) and provide advisory and intermediary services to facilitate the negotiation process
❖ Lead an International Consortium for Conducting Application of Clean Development Mechanism for a Major Geothermal Power Project
❖ Conduct due diligence on behalf of an emerging energy company to evaluate contractual, technical and economic aspects for a farm-in / participating interest in Pertamina’s geothermal power projects
❖ Facilitate negotiation process for geothermal joint venture agreement
❖ Support a study on Geothermal Investment Transaction to review the legal and regulatory framework
❖ Present overview of Indonesia Geothermal Power Project opportunities to a major upstream oil and gas company
❖ Provide advisory services to facilitate the development of Company strategic position with respect to its consortium partners and PLN for the development and execution a major geothermal power project covering Resource Management, Legal and Contractual Review, Electricity Market Study, Licensing and Network Development
❖ Participate in the 2010 World Geothermal Conference Committee to chair the planning and budget committee and co-chair the technical committee.
❖ Participate in GOI Technical Team to develop guideline for calculating economic price of geothermal steam and electricity
❖ Provide assessment of barriers to Indonesia’s Renewable Energy and Energy Efficiency project developments and recommendation for alternative solutions.
❖ Conduct technical review and analyses of geothermal power project opportunities and develop / prepare technical documents required for pre-qualification process in geothermal power project tendering process.
❖ Conduct study on utilization of geothermal power for specific application in power consuming industries
❖ Act as Local Consulting partner to International Consulting Firm to conduct a study on fiscal and non-fiscal incentives to accelerate geothermal energy development by private sector in Indonesia.
❖ Co-develop capacity building program for MKI/API on Feasibility Study for Geothermal Energy Development for Power Generation
Act Local Consulting Partner of an International Consulting Firms Provide consultation services for technical, economics, financial and legal assessment to develop fiscal and non-fiscal policies to attract investment in geothermal power business, which include but not limited to reviews of geothermal energy pricing, risk mitigation in geothermal resource development, transactional (contractual) processes, and regulatory advocacy.

Conduct ADB sponsored study on “Developing Contingent Liability Control System of Geothermal Projects” related to establishment and operation of Revolving Fund to support Government participation in mitigating risk in geothermal resource development for Fiscal Policy Office of Ministry of Finance, R.I.

Provide local professional consultancy services to International Consultant for World Bank sponsored study on Indonesia Geothermal Transaction for Geothermal Directorate, Ministry of Energy and Mineral Resources

Provide local professional consultancy services to International Consultant for JICA sponsored study on Geothermal Independent Power Producer Promotion for Geothermal Directorate, Ministry of Energy and Mineral Resources

Provide professional consultancy services and act as retained consultant to a major European oil and gas company for establishing geothermal business in Indonesia. The works include conducting geothermal project screening based on economics, market, risk, and technical aspects.

Provide local consultancy service retention for an international business consultancy firm to gather specific data and information related to geothermal resource development in Indonesia and the Philippines.

Provide local consultancy services for a joint study conducted by a consortium of international consultant companies to identify Renewable Energy, including geothermal, and Energy Efficiency projects in the pipeline; review barriers to project implementation; and recommend appropriate solutions related to financing and technical assistance to make the projects moving toward completion.

Conduct AFD sponsored study on developing insurance scheme to mitigate risk in geothermal resource development, particularly exploration activity, in cooperation with international consulting companies from France and Germany

Provide local technical, legal / contractual, and financial consultancy services relevant to geothermal energy development to develop Public Private Partnership undertakings in geothermal business.

In collaboration with Oxford Policy Management from UK, to assist Pusat Investasi Pemerintah (PIP) for the acceleration of the utilization of Geothermal Fund Facility (GFF) to a selected IUP Geothermal holder.

Review 2018-2022 Strategic Plan of a geothermal State Own Enterprise with regard to formulation process, risk management, financial strategy, and application of new technology to mitigate risks.
PENConsulting Experience:

Other Renewable Energy, Energy Efficiency and Environment

- Study on Implementation and Follow-up Mission to Promote the Identification and Structuring of Renewable Energy (RE) and Energy Efficiency (EE) Investments in Indonesia for AFD, providing local consultancy services for a consortium of international consulting companies
- Conduct Pre-Feasibility Studies on energy saving by substituting liquid fuel with coal water slurry in 2x50 MW and 2x65 MW steam turbine power plants
- Bid for Feasibility Study of 50 MW Hydropower Plant at Semangko River, Lampung Province
- Conduct a review and recommend improvement of the Feasibility Study of 2x1.2 MW micro-hydro power project in Morotai, Maluku
- Bid for Due Diligence of Legal, Financial and Technical Aspect of 3 x 2.5 MW Mini Hydroelectric Power Plant at Mandailing Natal Regency, North Sumatra Province
- Prepare and deliver, on behalf of MKI, paper on “Promoting Community Awareness for Energy Conservation Culture” for the National Team on Energy and Water Conservation (TIMNASEA) and World Bank Seminar on “Prospects of Energy Efficiency and Demand Side Management (DSM)”, 21 Dec 2009.
- Take proactive participations through professional and business organizations (Indonesia Geothermal Association (API/INAGA), Indonesian Electrical Power Society (MKI), and Indonesian Renewable Energy Society (METI) in regulatory advocacy, among others:
  o Draft Geothermal Law – Law No. 27/2003 on Geothermal Energy
  o Formulate Academic Paper for and review Draft Electricity Law – Law No. 30/2009
  o Draft Government Regulations on Geothermal Energy Business, Electricity Business
  o Formulate Academic Paper for and review Draft Energy Law – Law No, 30/2009
  o Draft Ministry of Energy & Mineral Resources regulations on geothermal and electricity
  o Three (3) Draft Government Regulations for Electricity Law No. 30 Year 2009
  o Draft Government Regulations for Renewable Energy Activities and Security of Energy
- Conduct study on Carbon Capture and Storage (CCS) Fiscal Policy Study in the Oil and Gas Industry
- Conduct Pre-feasibility study for 100-300 kW Unit Pilot Tidal Current Power Plants at three straits in Bali, Maluku and West Papua provinces for a Scottish company
PENConsulting Experience:
Electrical Power Industry

- Conduct Pre-feasibility and Feasibility Study for a 2x25 MW coal fired power plant and related distribution system for an industrial zone in Balikpapan city suburb.
- Study on Regional Electrical Supply and Demand Balance and the power grid situation in Sumatra (market for geothermal electricity) and Rank Geothermal Resources Development in Sumatra based on potential reserves and market.
- Study alternative 60 MW power supply for a copper and gold mining company in the southeast corner of East Java, constructing 60 km 150 kV transmission line to connect to the nearest PLN Substation or build own power generation 20 kV primary distribution system.
- Conduct Feasibility Study and Provide Professional Consultancy Services for Project Development of a Combined Cycle, Dual Frequencies (60 Hz and 50 Hz) Power Generation for upstream oil & gas production operations and surrounding community.
- Provide technical consultancy services to a 2x55 MW coal fired power generation IPP to resolve disputes on Power Purchase Agreement.
- Study potential electricity market projection for three potential geothermal power projects in Sumatera – review supply and demand projection of PLN Sumatera integrated power grid.
- Study selection of locations on the coast line in Indonesia for aluminum smelting plants to be supplied by geothermal or hydro power for an Iceland Investor Syndicat supported by U.S. smelting company. The study includes application of power wheeling scheme to transmit power on PLN grid and build own 150 kV transmission lines and related substations.
- Provide consultancy services to a 2x150 MW Mine-mouth Coal Fired Power Plant project to resolve barriers to project implementation related to coal supply agreement and power purchase agreement amendments.
- Conduct Pre-Feasibility Study covering technical and commercial aspects of co-generation plant for a fiber industry to determine technical specifications and economic viability of the plant.
- Conduct a review and recommend improvement of the Feasibility Study of 2x1.2 MW micro-hydro power project in Morotai, Maluku.
- Write Guideline on “Value Creation in the Procurement of Mine-mouth Coal Fired Power Plant under the Business Partnership Scheme” for a state electricity enterprise.
PENConsulting Experience:
Energy Business & Regulatory Advocacy

- Conduct Capacity Building for Corporate Strategic Plan Formulation of an Environmental NGO
- Facilitate Corporate Strategy Development, Deployment & Organizational Restructuring of a National EPC Company
- Study and Present Diversification Opportunities and Strategies in the Energy Value Chain Business for a Coal Mining Company
- Facilitate Corporate Strategy Development, Deployment & Organizational Restructuring of a National EPC Company
- Conduct Screening Assessment of Project Opportunities in the Upstream Oil & Gas, Geothermal Power and Coal Fired Steam Power Plant Business and Carry out Due Diligence of Selected Projects for Acquisition or Participating Interest
- Provide an Overview and Outlook on Indonesia Electrical Power Supply and Related Infrastructure Projects, Including Gas, Coal, and Geothermal Primary Energy Supplies, for Expanding Business Development of an International Engineering Company
- Provide an Overview of Corporate Strategic Plan with emphasis on appropriateness on financial policy, risk analysis and mitigations
- Conduct/Facilitate Regulatory Advocacy (PENConsulting’s Civic Mission):
  o Electricity Law & Implementing Regulations.
  o Oil and Gas Law Implementing Regulations, Upstream and Downstream Blue Print for LNG Industry and Natural Gas Industry.
  o Blue Print National Energy Development 2005-2025.
  o Draft three Government Regulations associated with the New Electricity Law No. 30 Year 2009.
  o Draft Minister of Finance regulation of Geothermal Fund.
PENConsulting Experience:
Energy Conferences & Seminars

❖ Develop Substances and Processes for Effective International Energy Conferences – (a) Jakarta International Energy Conference 2000; (b) Houston Energy Dialog 2001; (c) Indonesia – China Energy Dialog 2002 & 2006; (d) Bimasena International Energy & Mining Conference 2004 and (e) Five (5) Pre-conference Discussion; Indonesia – China Electrical Power Equipment & Technology (ICEP) 2008
❖ Develop Terms of Reference and participate in business conferences in cooperation with the Indonesian Electrical Power Society (MKI), the Indonesian Geothermal Association (API), the Indonesian Renewable Energy Society (METI), and the Bimasena Energy & Mining Society. Among conferences, seminars and workshops during the past three years are:
  ▪ ITB National Seminar and Exhibition on Electricity Business & Technology 2011, to be conducted in Bandung, 8-10 November 2011 (providing consultancy services for the main sponsor)
  ▪ Indonesia International Infrastructure 2011 Conference and Exhibition: “Accelerating Infrastructure Development across Indonesia”, Jakarta 12-14 Apr 2011. Preparing paper on “Go Green, Go East” as part of a joint presentation with MKI on “From Resources to Utility”
  ▪ Establishment of Working Group on Indonesia Energy Efficiency, a joint cooperation among MKI, the National Team of Energy and Water Conservation (TIMNASEA), and Indonesia Chamber of Commerce (KADIN) to develop “Grand Design of Indonesia Energy Efficiency”, April 2010. Appointed as member of the steering committee.
  ▪ Member of MKI Team for Indonesian Parliamentary hearing on “Barriers to IPP Development”, 21 Jan 2010
MKI Workshop on “In Search of Solutions to Financing Independent Power Producer Projects”, Jakarta, 27 Nov 2008
❖ Provide consultancy services to Indonesia Major Energy / Power Company to sponsor the 4th National Electrical Power Seminar & Exhibition conducted by ITB
❖ Participate in the Steering Committee and Review Panel for Technical Papers for the Conference of Electrical Power Supply Industry to be conducted in Bali in October 2012.
❖ Hold Focus Group Discussion on Tidal Current Power Plant development among Scottish companies and Indonesia’s counterpart at BIMASENA Mine & Energy Society
PENConsulting Clients

- PT Caltex Pacific Indonesia, a Subsidiary of Chevron IndoAsia Business Unit;
- Amoseas Indonesia Inc. (now Chevron Geothermal Indonesia);
- Tanjung Jati A Power Company, A Bakrie & Brothers Corporation;
- YBUL (Yayasan Bina Usaha Lingkungan), an Environmental NGO;
- PT Siemens Indonesia;
- Bimasena Energy & Mining Society and the Indonesian Institute for Energy Economics;
- Joint Team of Indonesian Energy Society;
- PT Medco Energy International Tbk;
- PT Star Energy – Magma Nusantara Ltd;
- PT Cabot Indonesia;
- PT Bank Negara Indonesia (Persero) Tbk;
- PT Getraco Utama;
- The Jakarta Consulting Group – PT Rekayasa Industri (State Own EPC Company);
- PT Archipelago Resources Komunikasi;
- PT Panen Raya Sejahtera;
- PT Casindo Global International;
- Bayan Resources Group Companies – PT Bayan Energy, PT Gunung Bayan Prima Coal, Providence Indonesia Energy LLC;
- Manhattan Kalimantan Investment (MKI) Tarakan PSC;
- PT PLN (Persero) – The State Electricity Enterprise;
- PT Ceria Worley, subsidiary of Worley Parsons Engineering Company;
- PT SNC Lavalin Indonesia;
- PT Chevron Pacific Indonesia (CPI);
- PT Sumber Daya Kelola; PT Tiara Gading Oil;
- PT Q Energy South East Asia;
- PT Tanjung Kasam Power & Consortium of BNI, BRI and Bukopin;
- LPPM ITB – Badan Operasi Bersama - Coastal Plain Pekanbaru Block (BOB-CPP);
- Consortium of Bank Niaga, CMIB Malaysia, Bank Export Indonesia and Lippo Bank;
- PT Peralahan Arnebrata Natuna;
- PT Daya Mitra Sejati;
- PT Bank CIMB-Niaga (Tbk);
- PT Corindo Agung;
- PT Karya Inti Petroleum;
- Reykjavik Energy Invest / Century Aluminum;
- Total Indonesia E&P;
- PT Supreme Energy;
- PT Medco Power Indonesia;
- PT Bangka Manunggal Power;
- PT Kariangau Power;
- JICA/West Japan Engineering Consultant, Inc.;
- CHIPS Energy Co. Ltd.;
- Fichtner GmbH;
- BEC Engineering - Intrepid Mines;
- Statoil ASA;
- ADB/Center for Fiscal Risk Management/ Fiscal Policy Office;
- CMIB-Niaga/PT Bumi Hasta Mukti;
- PT Rina Indonesia;
- McKinsey International (Hongkong/ Singapore);
- PT. ENV Indonesia;
- PT Asia Bumi;
- AFD – Burgeap-France / Frankfurt School of Management & Finance;
- PT Austindo Nusantara Jaya - Agriculture Papua (ANJAP);
- Pusat Investasi Pemerintah (PIP);
- Benchmark Advantage Pte. Ltd. / Madagascar Oil Ltd;
- Semeru Management Pte. Ltd.;
- Oxford Policy Management;
- PT. Mega Resources Investment,
- PT Widodo Sukses Makmur (an upstream Production Sharing Company);
- Indonesia International Energy Solution Partner (IEP),
- Nova Innovation Ltd – Scotland;
- PT Geo Dipa Energy (Persero)
- PT Shenhua Guo hoa Lion Power Indonesia
- PT Morotai Hydro Power
Civic Mission

Directorate General of Oil & Gas; Directorate General of Mineral, Coal & Geothermal; Directorate General of Electricity & Energy Utilization; Directorate General of New and Renewable Energy and Energy Conservation; Centre for Energy Information, Ministry of Energy & Mineral Resources; Fiscal Policy Office – Ministry of Finance; The Indonesian Electrical Power Society (MKI); The Indonesian Geothermal Association (API); The Indonesian Renewable Energy Society (METI); The Indonesian Energy Society (MEI); The Indonesian Energy Conservation & Efficiency Society (MASKEEI).
Founders

Ir. Anton Wahjosoedibjo (Executive Director 2002-2004, President Director 2004-2018, President Commissioner 2020, Commissioner & Executive Advisor 2020 - Present)

Ir. Michael Sumarijanto, MBA (Commissioner 2002-2013, President Commissioner 2013-2018, Commissioner 2018-2020, President Commissioner 2020-Present)

Hoesein Wiriadinata, SH, LLM (President Commissioner 2002-2013) *

Ir. Puguh Sugiharto, MSc (President Director 2002-2004, Executive Director 2004-2010, Commissioner 2010-2013) *

Dr. Ir. Madjedi Hasan, MPE, MH (Director 2012-2018, Commissioner 2018) *
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