PARTNERING WITH INDONESIA FOR 40 YEARS

PROVEN, RELIABLE AND SUSTAINABLE ENERGY AND WATER SOLUTIONS

BLACK & VEATCH
Building a world of difference.
WE’RE BUILDING A WORLD OF DIFFERENCE. TOGETHER.

Since 1969, we have been delivering locally adapted, reliable and sustainable power generation and transmission, oil & gas, and water infrastructure solutions that improve and sustain the quality of life for Indonesians.

As a young and growing maritime nation with rich natural resources, how can Indonesia plan, finance and develop a new generation of sustainable infrastructure? How can knowledge be shared and cultivated, balancing the development of local capacity while realizing better value from blending global and regional expertise?

Without risking what’s important: 400 labourers & craft workers went home safely to their families every night. INDRALAYA NO. 4 COMBINED CYCLE ADDITIONAL PROJECT (128 MW)

Whether as a consultant or EPC (engineering, procurement and construction) provider, Black & Veatch bridges these gaps. We build trust delivering quality, reliability and timely results. Regardless of scale or technology, we deliver safely and on schedule with locally adapted operations and understanding of risk.
**Power Generation** – Our 200+ GW of global expertise spans the entire life cycle of projects and across all technical challenges and fuel sources. In Indonesia, we have contributed to more than 15,000 MW of installed capacity throughout the country in a variety of roles including multiple planning and development studies; independent and owner’s engineer roles; design; procurement; construction management; EPC; and startup.

**Renewable Solutions** – From consulting and planning to engineering and design to construction and asset management, we can maximize Indonesia’s opportunity to further develop its vast geothermal, hydropower and other renewable resources. Our deep local knowledge is backed by 40 years of global renewable project experience which includes involvement in half of the utility-scale solar photovoltaic projects operating in North America and nearly 50,000 MW of global hydropower design.

**Oil & Gas** – We combine broad, global technology capabilities, both proprietary and open art, across liquefied natural gas (LNG), liquefied petroleum gas (LPG), sulfur recovery and other oil & gas applications together with a depth of regional experience. Tuned to the nation’s growing needs, our strength is successfully executing projects that are technology driven with both engineering and construction. We bring proven performance to any stage of project execution, from feasibility studies, FEED, detailed design, EPC through startup services. Our clients in Indonesia and throughout the world benefit from increased production, improved performance, minimized environmental impact, reduced maintenance costs and high levels of reliability.

**Power Delivery** – Thousands of kilometers of overhead and underground transmission experience, numerous substation and HVDC projects from planning through EPC equip us to creatively develop and implement Indonesia’s much-needed power delivery enhancements ensuring system reliability that matches cost and schedule requirements.

**Water** – We have designed and delivered some of Asia’s most iconic water and wastewater infrastructure. Our legacy in Indonesia dates back more than 40 years across the development and management of various water resources, surveys, and design and construction supervision of water infrastructure from harbors to pipelines to desalination facilities. Today we are helping municipal, power, industrial and mining clients overcome water supply challenges and successfully meet important discharge regulations through a range of desalination, water reuse or other advanced water and wastewater treatment solutions.

**Equipment procurement and quality control** – Our ability to source cost-competitive Indonesian, regionally or globally manufactured equipment that meets or exceeds high-level performance benchmarks sets us apart. We bring a detailed understanding of different international engineering codes that deliver smooth construction and commissioning results. As an owner’s engineer in Indonesia, we have a track record of programmatic quality assurance and quality controls such as shop inspection and test plans where equipment manufacturing is witnessed and verified by Black & Veatch professionals in person.
PARTNERING WITH INDONESIA FOR 40 YEARS

IMPROVING AND SUSTAINING THE QUALITY OF LIFE FOR INDONESIANS FOR MORE THAN 40 YEARS
Improving and sustaining the quality of life for Indonesians for more than 40 years

**Type of Project**
- Provincial capital
- Energy projects
- Water projects

**Type of Engagement**
- EPC
- Engineering
- Study/Consulting

**Power Generation**
- Combustion turbine
- Coal
- Renewables
- Air quality and environmental solutions

**Power Delivery**
- Transmission and substations
- High voltage direct current
- Renewables interconnection
- Smart grid deployment

**Oil & Gas**
- LNG and FLNG
- LPG
- Gas processing
- Sulfur recovery
- Gasification
- Ammonia

**Water & Wastewater Treatment**
- Water supply
- Municipal and industrial wastewater treatment
- Desalination and reuse
- Water solutions for power and mining
- Pumping and storage
- Conveyance systems
BUILDING A WORLD OF DIFFERENCE® IN INDONESIA

Black & Veatch employs more than 80 professionals in Indonesia and we are growing. One in four of our professionals have been with us for more than 10 years and trained in Black & Veatch’s way of successful project completion. It’s the experience of our people and the partnerships we have fostered which allow us to broaden our services and meet Indonesia’s evolving infrastructure needs. We are proud of our legacy and continued commitment to Indonesia.

Our Indonesian office complements and works closely with nearly 2,000 professionals located throughout Asia Pacific and 10,000 globally.

Building Trust for Decades

Our work and relationships in Indonesia stand the tests of time. We remain a trusted advisor to clients and partners developing critical infrastructure in Indonesia: banks and project financers, power developers and utilities, oil & gas developers, municipal water utilities, mining companies, local equipment manufacturers and more. This partnership approach results in better projects and better outcomes for our clients and Indonesia.

Positioning Indonesia for Future Success

As we grow within Indonesia, we are developing the next generation of Indonesian business leaders and engineers. Whether through advancing the careers and experience of our professionals, sharing knowledge and best practice with our key clients and partners, or qualifying and procuring local Indonesian equipment, we focus on improving the lives of Indonesians through our work.
Hydropower – How We Are Localizing Global Expertise

Our clients face unique challenges. For example, with many of Indonesia’s simpler hydropower sites already developed, the next generation of developers in Indonesia need to understand the engineering implications and cost impacts of potentially less favorable site locations and physical characteristics. Drawing on our regional Hydropower Center of Excellence, we are adapting industry leading experience to develop conventional and pumped storage facilities through consulting and engineering-led EPC solutions that result in predictable project outcomes.

We are also actively adapting solutions to help mining, oil & gas and geothermal clients address their specific and evolving challenges in Indonesia.

Safe Project Delivery

No injury is acceptable. Through better planned projects, we deliver work on time, adhering to the highest global safety standards. For example, our recent EPC projects in South Sumatra and Semarang each recorded more than 1 million hours worked with zero days-away-from-work-injuries.

Our professionals develop long and fulfilling careers – more than a quarter of our people in Jakarta have been with us for more than 10 years.
BUILDING A WORLD OF DIFFERENCE®

Black & Veatch is an employee-owned, global leader in building critical human infrastructure in Energy, Water, Telecommunications and Government Services. Since 1915, we have helped our clients improve the lives of people in over 100 countries through consulting, engineering, construction, operations and program management. Our revenues in 2014 were US $3 billion. Follow us on www.bv.com and in social media.