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Clean Energy Infrastructure for Southeast Asia

Developing large-scale clean energy for industries, grids and cities across the region

CORPORATE PROFILE

Quantum Power Asia

www.quantumpower.com.sg

Quantum at a Glance

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Quantum Power Asia is a Singapore-headquartered clean energy infrastructure developer, investor and operator focused on Southeast Asia, with its principal operations in Indonesia. Established in 2014, Quantum originates, develops, structures and finances utility-scale solar, energy storage, industrial decarbonisation and cross-border electricity infrastructure.

Backed by committed development capital from Silverwing Investment Ltd., which also provides access to a wider institutional and transaction network, Quantum combines regional relationships and on-the-ground development capability with technical, commercial, financing and delivery expertise. The company advances complex opportunities through land, permitting, grid access, stakeholder engagement, offtake, capital formation, construction and operational readiness under one accountable development platform.

Quantum developed Indonesia's first unsolicited, privately developed utility-scale solar project approved by PT PLN (Persero). Its current development pipeline exceeds 7.5 GWp across projects at varying stages of development.

2014	First	7.5 GWp+	US$25B+
Year of establishment in Singapore	Indonesia's first private utility-scale solar project	Development Pipeline of clean energy projects	Transactions completed by Quantum's Leadership

Our Integrated Approach

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Quantum's competitive advantage is execution. The company coordinates land, permitting, stakeholder engagement, technical development, commercial structuring, financing and delivery under one accountable team. This integrated approach reduces interface risk, supports disciplined capital allocation and maintains alignment from origination through construction and operational readiness.

Quantum manages the development lifecycle through a single, evidence-led process.

- **Originate.** Identify opportunities where policy, customer demand, resource potential and commercial viability align.
- **Develop and Structure.** Establish the technical, land, regulatory, stakeholder and commercial foundations.
- **Secure Capital.** Match development capital, project equity and financing to the project's maturity and risk profile.
- **Deliver.** Coordinate owner-side interfaces through construction, commissioning and operational readiness.
- **Operate.** Protect technical performance, contractual compliance and long-term asset value where Quantum retains an ownership or management role.

At each stage, capital and management attention increase as evidence strengthens and material risks are resolved.

Development Pipeline

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Quantum's development pipeline exceeds 7.5 GWp across cross-border infrastructure, utility-scale solar and storage, and industrial clean energy. Some projects span more than one category, so category figures indicate areas of activity and should not be added together.

6 GWp Cross-Border Clean Energy	**Approximately 6 GWp solar and 12 GWh battery storage, designed to deliver 1 GW of firm renewable electricity through integrated generation, storage and transmission.**
1.3 GWp+ Industrial Clean Energy	**Captive and dedicated clean power for mining, mineral processing, manufacturing and other energy-intensive industries.**
1 GWp+ Utility-Scale Solar and Storage	**Grid-connected solar and battery storage that strengthen supply reliability and support national and regional energy security.**
350,000 t p.a. Bioenergy	**Selected bioenergy opportunities with potential annual production capacity of up to 350,000 tonnes.**

Figures indicate areas of activity and are not additive. Pipeline includes projects at varying stages of development and remains subject to permitting, commercial agreements and final investment approvals. Information as at July 2026.

Featured Project:

Quantum Solar Gorontalo

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A Landmark Solar Development Meeting Gorontalo's Power Needs

At commercial operation, the Isimu project supplied more than half of Gorontalo city's peak demand, demonstrating its significance to the regional power system. The project also represented Indonesia's first unsolicited and privately developed utility-scale solar project approved by PT PLN (Persero) and incorporated one of the region's most advanced single-axis tracking systems at the time.

1. **More than half of Gorontalo city's peak demand supplied at commercial operation**
2. **Indonesia's first unsolicited and privately developed utility-scale solar project**
3. **Advanced single-axis tracking technology for the region at the time**

Quantum developed the 14.7 MWp Quantum Solar Gorontalo project at Isimu, Indonesia's first unsolicited, privately developed utility-scale solar project approved by PT PLN (Persero). The plant achieved commercial operation on 24 January 2020 and was subsequently divested to Berkeley Energy. It remains operational under new ownership.

LOCATION	Isimu, Gorontalo, Sulawesi, Indonesia
SCALE	14.7 MWp ground-mounted, grid-connected solar PV
OFFTAKER	PT PLN (Persero)
COMMERCIAL STRUCTURE	20-year power purchase agreement
COMMERCIAL OPERATION	24 January 2020
OUTCOME	Developed and divested

Featured Project:

Indonesia-to-Singapore and Industrial Clean Energy

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Quantum is developing a proposed cross-border clean energy system designed to deliver approximately 1 GW of firm renewable electricity to Singapore. The proposed system combines approximately 6 GWp of solar generation and 12 GWh of battery storage in Indonesia with a subsea transmission connection between Indonesia and Singapore.

The development follows an Indonesia-first approach that prioritises identified domestic industrial and energy requirements and enables the export of eligible surplus generation. It is also designed to support renewable energy manufacturing, supply-chain development and investment in Indonesia.

GEOGRAPHY	Indonesia-to-Singapore
CONFIGURATION	1 GW firm renewable electricity, supported by approximately 6 GWp solar, 12 GWh storage and a subsea transmission connection
STAGE	Advanced development across government, regulatory, land, technical and commercial workstreams
KEY DEVELOPMENT MILESTONE	Spatial planning approval covering 4,747 hectares across the Riau Islands, secured in 2023

Industrial Clean Energy

Quantum is also advancing 1.3 GWp+ of clean energy opportunities for mining, mineral processing, manufacturing and other energy-intensive users in Indonesia. Proposed solutions include captive and dedicated power, solar and battery storage, private grids and hybrid systems structured around customer load, reliability and commercial requirements. Counterparties and locations remain confidential.

Our People

Leadership

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180+ years of combined executive leadership experience

Our Team Converts Complex Opportunities into Structured, Investable and Deliverable Projects.

The team combines regional market knowledge with direct experience in project origination, commercial structuring, engineering, financing, stakeholder engagement, mergers and acquisitions, ESG and project delivery. A key differentiator is Quantum's execution capability to convert complex opportunities into structured, investable and deliverable projects.

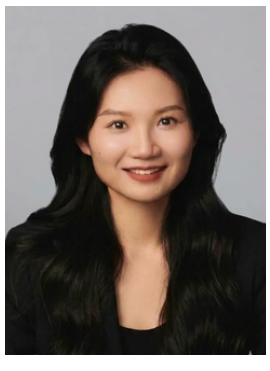
This multidisciplinary capability enables Quantum to efficiently deploy development capital, accelerate time-to-financial-close, and ensure long-term asset performance. Our experience spans utility-scale solar PV, PV/BESS integration into coal, coal early retirement and coal repurposing projects, clean energy M&A and due diligence and brownfield development.

Simon G. Bell
Founder and Chief Executive Officer

Simon founded Quantum in 2014 and leads its strategy, capital formation, government engagement and regional development. He has more than 25 years of Asia Pacific experience across clean energy, infrastructure, mining and strategic advisory. He led the development and divestment of Quantum Solar Gorontalo and directs Quantum's Indonesia-to-Singapore clean energy development. Simon brings a 10-year track record of direct engagement with Indonesia's Ministry of Energy and Mineral Resources, PT PLN (Persero), provincial governments, and regional leadership. He has invested development capital to early-stage opportunities and worked with boards, investors, governments and operating businesses on capital formation, project development and execution.

Andre E. Susanto
Chief Technology and Strategy Officer

Andre leads technology strategy, technical development and project integration. He brings more than 20 years of international experience across renewable energy, storage, industrial decarbonisation and advanced technology, and has developed or advised on more than 9 GW of clean energy projects.



Yanjun Liu
Senior Adviser, Climate Strategy and ESG

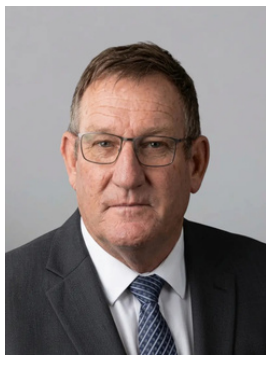
Yanjun advises on climate strategy and ESG, aligning environmental and social risk management, climate impact and development finance requirements across the project lifecycle. She brings more than 15 years of experience across climate philanthropy, renewable energy, industrial decarbonisation and regional partnerships in Asia Pacific.

Julian Smith
Senior Adviser, Infrastructure Strategy and Transactions

Julian advises on infrastructure strategy, project finance, capital and joint venture structuring, and transactions. Across more than 35 years, he has advised governments, state-owned enterprises, investors and development institutions on completed infrastructure finance transactions exceeding US$13 billion.

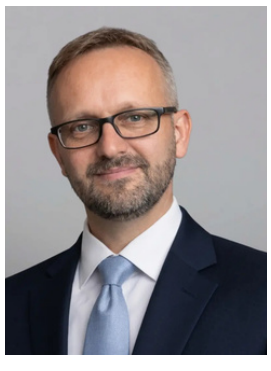
Dean Travers
Senior Adviser, M&A and Project Delivery

Dean advises on M&A and project delivery. He brings more than 30 years of experience across renewable and conventional power, infrastructure investment, development, operations and board governance, including senior leadership roles with ENGIE across Australia, Southeast Asia and Europe.



Colin J. Paroz
Chief Commercial and Business Officer

Colin leads commercial and business development, covering strategic partnerships, customer engagement, negotiations, supply chain and delivery relationships. He brings more than 35 years of experience across energy, resources, infrastructure, logistics and complex international project environments.



Johannes Jonsson
Head of Digitalisation and AI

Johannes develops management information, reporting and AI-supported workflow systems that strengthen project oversight, compliance and decision-making. He brings more than 20 years of Asia Pacific experience across energy, mining, logistics, sustainability and technology-enabled businesses.

Markets and Regional Footprint

Southeast Asia's electricity demand is being driven by industrialisation, urbanisation, digital infrastructure and manufacturing. Quantum focuses on two markets where demand, infrastructure complexity and development capability converge.

Cross-Border and Utility-Scale Clean Energy

Firm renewable supply, storage, transmission and regional electricity trade.

Solutions We Provide

- Firm renewable electricity supply designed around generation, storage, dispatch and offtake requirements
- Cross-border transmission infrastructure, including subsea cable systems, landing infrastructure and grid interconnection
- Utility-scale solar and battery storage developments for national grids, regional interconnection and major load centres
- Commercial structuring of long-term offtake, transmission, market access and cross-border electricity trade arrangements

Industrial Decarbonisation and Captive Power

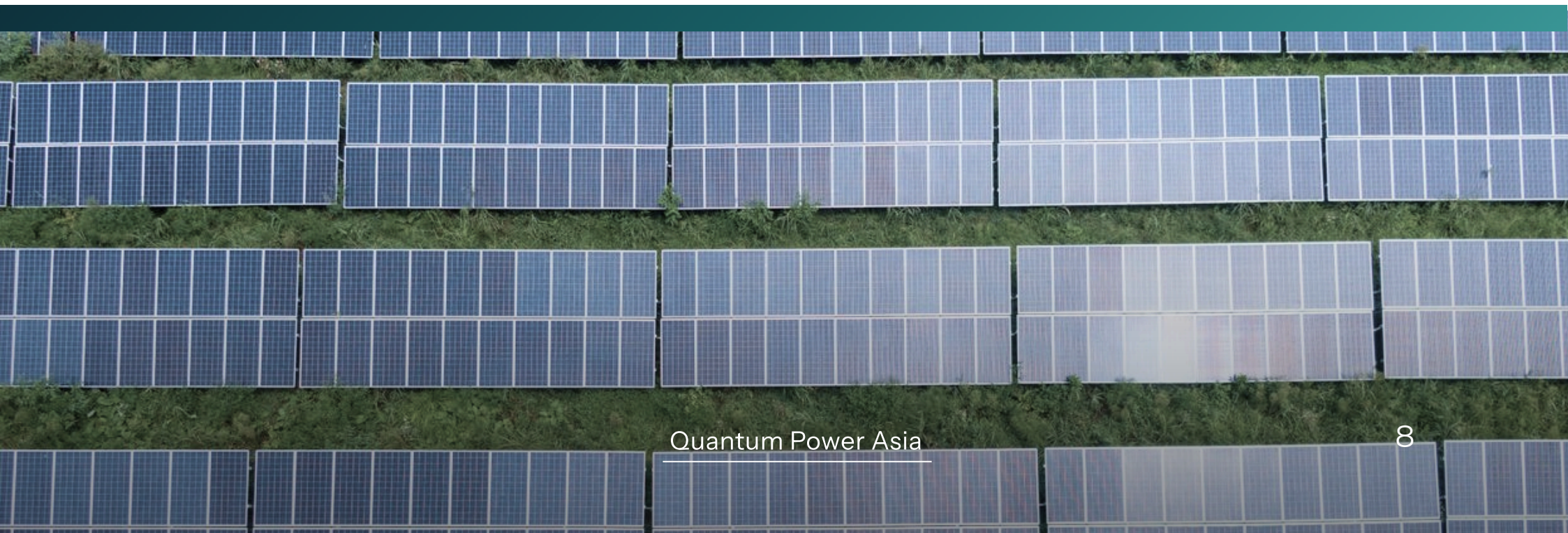
Large-scale clean power for mining, critical minerals, mineral processing and manufacturing.

Solutions We Provide

- Private grids and dedicated generation for individual facilities, industrial parks, campuses and remote operating sites
- Grid-connected utility-scale solar and battery storage sized to industrial demand and operating profiles
- Hybrid energy systems integrating solar generation, battery storage, grid supply, backup generation and energy management systems
- Captive, private-grid and hybrid power systems for mining, mineral processing and industrial facilities

Regional Footprint

Indonesia is Quantum's core development geography. Singapore is the destination market for the flagship cross-border development. Cambodia and Vietnam are at an exploratory stage and are not included in the pipeline figure.



Responsible Development

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Quantum integrates responsible land access, environmental and social safeguards, stakeholder engagement, local capability and domestic value creation into project development from origination. This strengthens bankability, supports community and government confidence, and protects long-term project value.

- **Avoid first.** Screen out environmentally sensitive, contested or unsuitable sites before commitment.
- **Engage early.** Verify rights and incorporate the knowledge of authorities, landowners and communities into project design.
- **Build local value.** Plan local employment, skills development and qualified supplier participation around project safety, quality and delivery requirements.
- **Govern transparently.** Maintain clear approvals, risk escalation, grievance handling and disclosure controls throughout development and delivery.

How We Develop Responsibly

Six connected disciplines run through origination, structuring, development and delivery.

Responsible Land Acquisition and Stakeholder Engagement

Screen land before committing to it, verify rights before making offers, and engage governments, authorities, landowners and communities early.

Environmental and Social Safeguards

Identify, assess and manage environmental and social impacts, with avoidance applied first through site selection.

Local Supply Chain Development

Create pathways for local employment, transferable skills and qualified supplier participation planned against project requirements.

Community Development and Social Investment

Support practical health, education, enterprise and community initiatives shaped by identified local priorities.

Domestic Value Creation

Structure projects to contribute to energy security, industrial competitiveness, capital formation and durable regional economic activity.

Governance, Integrity and Accountability

Apply decision discipline, risk escalation, integrity controls, grievance handling and disclosure control.

Originator to Regional Developer

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Quantum applies a disciplined, stage-gated governance structure to development decisions, capital allocation and risk management. Projects advance as technical, land, regulatory, stakeholder, commercial and financing evidence is verified. Material commitments are reviewed at the appropriate level, with key risks, mitigation actions, conflicts and approvals documented throughout the project lifecycle.

Corporate Milestones:

2014 Quantum Power Asia was established in Singapore and began engaging with Indonesia's Ministry of Energy and Mineral Resources, PT PLN (Persero), members of Parliament and other public-sector stakeholders to build understanding of utility-scale solar PV. This work included technical briefings, knowledge-sharing and training, and advocacy for enabling solar PV regulations and greater acceptance of solar generation within PLN's power system.

2019 From 2015 to 2019, Quantum built a 500 MWp solar project development pipeline across five locations in Sulawesi, Sumatra, Lombok, Java and Bali. The Sulawesi portfolio included the Isimu project in Gorontalo, which became Indonesia's first privately developed utility-scale solar project approved by PT PLN (Persero). During this time, Quantum also proposed a 1 GW domestic solar panel manufacturing investment intended to strengthen Indonesia's local industrial capability and support development of utility-scale solar PV.

2020 The Gorontalo solar project achieved commercial operation on 24 January 2020. Developed by Quantum Power Asia and subsequently divested to Berkeley Energy, the plant remains operational under new ownership.

2021 Quantum commenced government, regulatory, technical and commercial development of its flagship Indonesia-to-Singapore clean energy project.

2022 In July 2022, Quantum signed a Memorandum of Understanding to develop a 1 GWdc renewable energy project for a large-scale industrial customer in Indonesia.

In August 2022, Quantum signed a separate Memorandum of Understanding to develop a 300 MWp renewable energy project supporting a major mining operation in Indonesia.

2023 Quantum secured spatial planning approval covering 4,747 hectares across the Riau Islands for the proposed Indonesia-to-Singapore clean energy project.

2024 The flagship Indonesia-to-Singapore project advanced through Singapore's regulatory assessment process and continued through bilateral government engagement concerning cross-border electricity trade.

2025 Quantum advanced its flagship Indonesia-to-Singapore project across land, permitting, technical, commercial and government workstreams, with a proposed configuration of approximately 6 GWp of solar generation, 12 GWh of battery storage and 1 GW of firm renewable electricity supply. During the year, Quantum's wider development pipeline expanded to more than 7.5 GW across cross-border clean energy, utility-scale renewable energy and industrial decarbonisation.

2026 Quantum, with support from Silverwing Investment Ltd., began designing Quantum Capital Asia, a proposed investment platform intended to support the financing and ownership of clean energy infrastructure developed by Quantum Power Asia and selected third-party developers across Asia Pacific.

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Power-On!

Contact

To discuss a clean energy project, investment opportunity or strategic partnership, contact Quantum Power Asia through its Singapore office.

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