



Calega
Energy Services Pte Ltd, Singapore
A Renewable Energy Development, Investment & Services
Platform



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Calega Energy Services Pte Ltd

Calega Energy Services Pte Ltd, Singapore or Calega Energy is part of Calega Group. The Group is an incubator accelerator with expertise in the energy, healthcare, human resource intervention and information technology sectors. With over 30 years' industry experience, Calega is able to successfully leverage investment and industry expertise to create value for our investors, offering a widespread global footprint, deep investment expertise and a diverse portfolio.

Calega Energy's objective is to advance the development, commercialization and deployment of renewable energy solutions, clean technologies and environmental solutions. The company meets this objective through investment and active partnership in existing projects and by acting as an adviser and incubator partner for specialist service providers and manufacturers, particularly in energy storage. Our geographical sphere of expertise and our focus is MENA, the Asian sub-continent and in SE Asia.

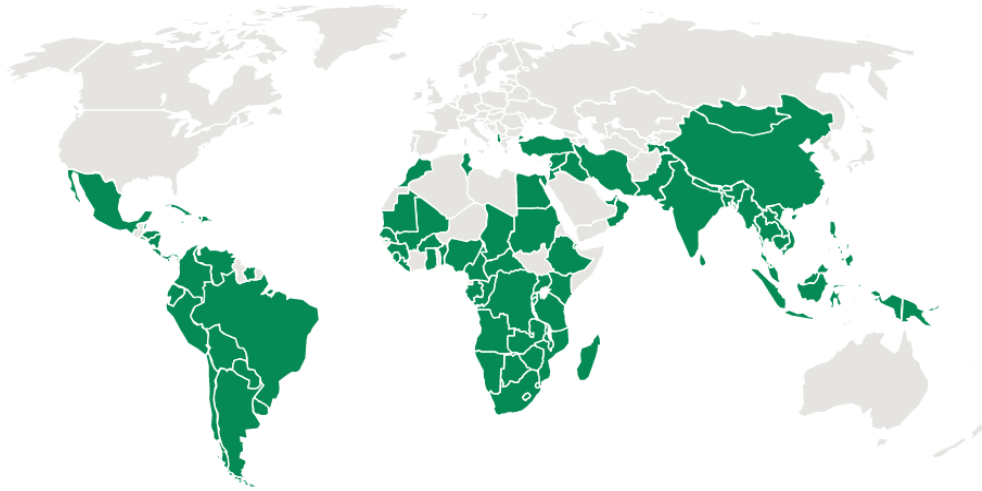
Calega Energy's business verticals include:

- RE Project Development
- Co-Investments with other developers and institutional investors (green- and brown-field projects)
- Commercialization of energy storage technologies
- Arrangement of equity and debt to renewable energy projects

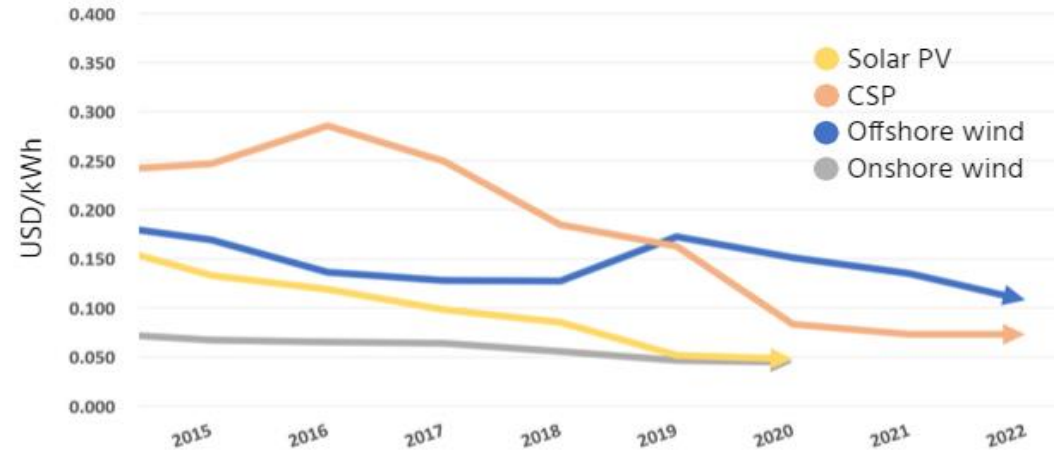
Calega Energy plans to fund and participate in RE and energy storage assets that deliver attractive yields and good growth potential. All its activities are guided by the United Nations Sustainability Goals.

Renewables Play Across Developing World

Renewables is now the fastest growing infra play globally. In resource-stark markets, it represents the most viable infra investment opportunity

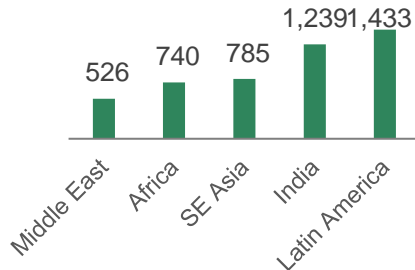


Solar, Wind are now the cheapest power sources and therefore essential to the power mix of developing economies with limited alternate resources



US\$ 4.7 tn

projected investment required in clean energy in key markets until 2035



Historic Underinvestment

45% of Africa or 600 million people do not have access to electricity - almost 2/3rd of global total.

Significant investment needed in new and existing infrastructure

Increasing Urbanization and Mobility

Almost 1 million city dwellers are added every 5 days, mostly in emerging markets.

US\$ 12.7 trillion cumulative spending related to electricity generation is expected by 2030

Source: Calega internal analysis, IRENA, British Petroleum Energy Outlook 2015, Royal Bank of Scotland, Economist Intelligence Unit, United Nations, World Bank, Brookings Institution, International Energy Association

The RE Industry Status Quo

The sustainability industry is nascent and as a consequence fragmented both by region and by sector. There are relatively few companies with the capability and reach to enable them to access capital for viable projects efficiently and deliver attractive investment opportunities.

Meeting the need for economical and clean power, technologies like wind, solar and energy storage represent a paradigm shift in how developing countries can source and generate electricity in the future. Calega Energy's goal is to support a more widespread uptake of renewable energy and energy storage solutions by leveraging its expertise, experience and partnerships with technology providers.

Calega has partnered with Hybrid Energy Storage Solutions SL, Spain (HESS) to offer unique energy efficiency and energy storage solutions to utilities (power, telecoms), distributed generation solutions for commercial and industrial clients across a number of industry verticals including electrical vehicles / transportations.

Business Verticals

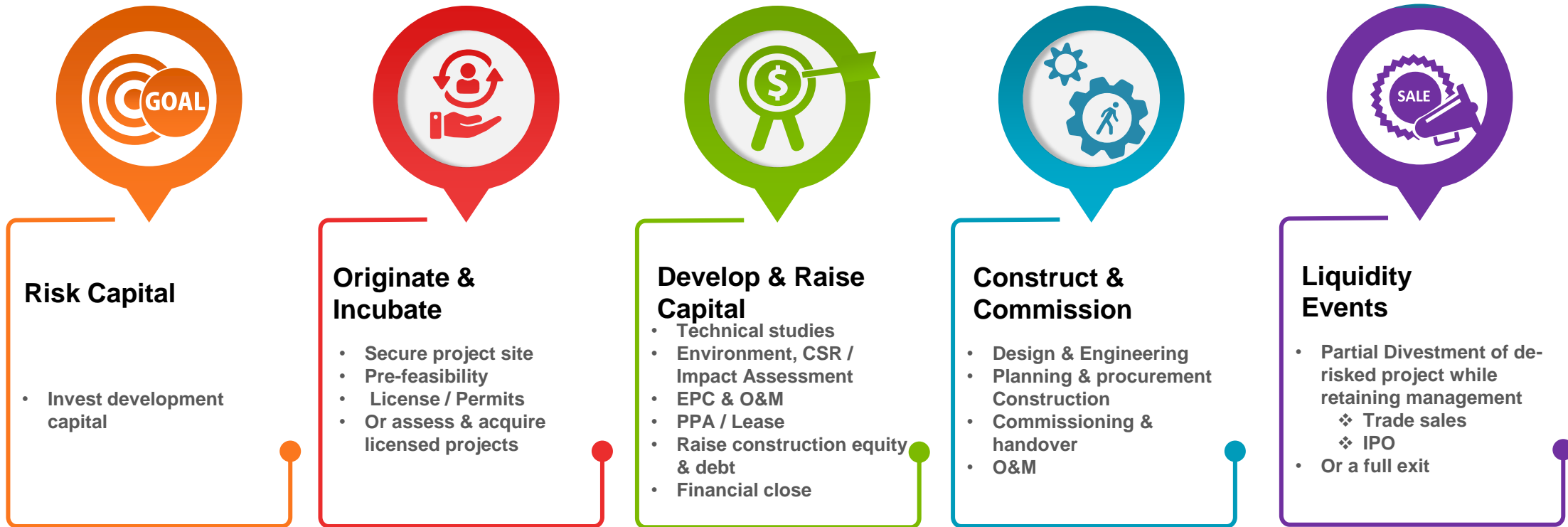
Calega maintains close relationships with international utilities, international oil companies, national oil companies, power providers, energy service and engineering companies. The company has a portfolio of investment partners through private equity groups, family offices, international trade and development funding, strategic buyers and senior lenders.

- **Project Development** – we are actively seeking to fund and develop high yield projects and projects that have strong growth potential. Our geographical focus is India, Pakistan and SE Asia. We have offices in Dubai, Delhi and Singapore. Although we are sector agnostic we plan to place particular leverage on the depth of our experience in the oil and gas sector.
- **Investments** - We believe in creating a targeted and balanced portfolio of investments that capitalize on multiple investment themes, sector trends, and future scenarios across varying economic, policy, capital, and commodity market conditions. We concentrate our investments in five key areas: renewable power generation, energy storage, biomass; environmental infrastructure and hybrid. We have an extensive network of affiliates in order to source a basket of qualified opportunities and we have an in-house team to conduct technical, legal and commercial due diligence on these opportunities
- **Development and Commercialization of Energy Storage Solutions.** We partner with the following companies:
 - HESStec provides energy storage solutions for the new generation of electrical grids. HESStec’s solutions are based on its proprietary hybrid approach, enabling energy storage systems to render multiple applications improving the profitability of grid assets.
- **Arrangement of Equity & Debt** - All types of project finance to support renewable energy projects, including equity, debt and tax equity. Growth capital for maturing businesses, including equity and mezzanine financing. Capital to support ownership transitions, including recapitalizations and acquisition financing. Late stage venture capital to support high growth companies with transformative technologies in the energy sector.

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PROJECT DEVELOPMENT

Project Development Process



Project Development: Value Proposition

A holistic platform for development of RE & energy storage assets and maximizing value creation.

→ Management Team

- Years of dedicated performance, track record and experience in the renewable energy and investment business
- Core team has been working together for [5] years
- Core competency/ background in investment management, oil & gas, logistics & distribution, technology incubation and financial services to capitalize on the opportunity
- Technical expertise: Experience of development, construction & operations of plants

→ Feet on ground in core markets – Ability to scale

- Own presence or via dedicated joint ventures give us ability to scale.
- Given the local / private nature of the RE business, in-country presence gives Calega the ability to manage execution and performance of RE asset portfolio
- Strong local partners: relationships with customers & lenders, credibility of on ground presence

→ Focus on adding RE Assets

- Development or acquisition of proprietary projects under development

→ Efficient Development

- Disciplined capital burn while developing RE business
- Target is to grow footprint as assets get added, not before

→ Locked in portfolio of RE assets

- Develop a pipeline of deals in a target country before committing investment

→ Fund Development Equity

→ Raise construction equity

- Invite international development finance institutions and RE investment funds to invest construction equity

→ Raise construction debt

- Concurrently raise local currency debt to leverage equity returns and manage currency risks

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INVESTMENTS

Investments

Co-Investment Objectives

Establish long-term partnerships with local communities, governments and financial institutions in economies that are growing rapidly and electricity is currently scarce, but sun and wind are abundant

Accelerate social, economic and environmental sustainability in growth markets through the development, construction and operation of renewable energy facilities

Generate attractive returns through robust and active portfolio risk management

In addition to funding its proprietary renewable energy projects, also invest in greenfield and brownfield projects alongside other developers, and;

Fund clean energy technology companies by matching investments from international institutional investors and stimulate their advancement.



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**ALLIANCE FOR ENERGY STORAGE
TECHNOLOGIES**



A hybrid energy storage revolution

HESStec provides energy storage solutions for the new generation of electrical grids. HESStec's solutions are based on its proprietary hybrid approach based on its patented energy management algorithms and technology, enabling energy storage systems to render multiple applications improving the profitability of grid assets. We fill the gap between our customers' needs and the capabilities of any storage technology

Our vision

HESStec's aim is to achieve a real and cost-effective integration of energy storage in the energy mix, supporting a shift towards a more sustainable electrical grid.

"A next-generation smart grid without energy storage is like a computer without a hard drive: severely limited" Katie Fehrenbacher, GigaOm

Contact Information

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