Stellae Energy is undertaking major technical work across the globe with large energy groups and multilateral agencies to identify sustainable energy locations, sources and solutions.

INTRODUCTION

Global Energy Transition

We are an Energy Transition company which is creating end to end Renewable Energy solutions globally.

Our main areas of focus

- Geothermal Energy
- Solar, Wind, and Energy Storage Hybrids
- Hydrogen - Energy Carrier and Storage Medium
- Carbon Capture and Storage (CCS)
- Compressed Air Energy Storage (CAES)
- Distributed Energy Solutions / Hybrid Microgrids
World Class Experts
Technology Pioneers
Global Commercial/Financial Deal Makers

OUR TEAM
Wealth of Global Experience of Executing Large Projects


Focussed on Quality of Delivery Long Term Partnerships
Energy Assets Development

WHAT WE OFFER
Sustainable Energy Assets’ Development - Strategic Advice - Project Management

- Stakeholder Engagement, Sustainable Development
- Site identification, accessibility, grid connection, resource presence
- Pre-Feasibility, Feasibility, Detailed Design, Construction, Operations
- Funding and Finance, working with International Development Banks, Export Credit Agencies, and Green Finance Funds
- Market Intelligence, Customers, Power Purchase Agreement (PPA) Origination
- Local Participation and Content, Social Impact, Partnering

STRATEGIC ADVISORY & PROJECT MANAGEMENT

Geothermal
Solar/Wind/Energy Storage
Hydrogen
Carbon Capture & Storage
Hybrid Microgrids

Existing Asset Reviews
Opportunity Reviews
Divestment / Investment Transactions
Developments
A major benefit is the persistence of Geothermal Energy – unlike Solar radiation and Wind which can be variable and intermittent requiring significant Energy Storage Systems to ensure lack of curtailment. Geothermal Energy can be used for heating and/or be transformed into electricity.

The technology to access this energy is conventional and well proven.

Geothermal Energy

Geothermal Energy uses the Earth’s heat to produce persistent electrical energy. It is renewable in the sense that the Earth produces it with internal thermal processes not associated with Man and it is naturally replenished – but it is up to us to access it efficiently and as cleanly as possible.

Medium to high temperature resources are generally required for economic electricity production, and there are many good geographical locations for these resources.
A number of production and injection wells circulate fluids through the hydrothermal or petrothermal reservoir rock formations, extracting heat for use in surface power generation facilities.
Hydrogen is an important energy carrier for the Energy Transition since its combustion produces only water – but the production process needs to be considered. Popular terms for the method of production involve the colours Grey, Blue, Turquoise, and Green.

Hydrogen can be an attractive carrier of Clean Energy; it can also be an effective high capacity, long duration Energy Storage medium. There are good applications for Hydrogen in residential, commercial, and industrial settings.

“Green Hydrogen” is the production of Hydrogen through electrolysis powered by renewables power generation (i.e., Solar, Wind, or Geothermal) – this is the most popular and environmentally compliant manifestation of Hydrogen today.
Carbon Capture and Storage in Depleted Oil & Gas Reservoirs is Technically Well Established and Commercially Feasible with Carbon Taxes and Cross-Border Duties

The Circular Economy challenges us to reutilise existing infrastructure to lower the carbon footprint of any new projects.

Carbon Capture and Storage

The economics of capture is critical to cost effective CCS implementation. Efficiency of CO2 capture is being challenged to be increased since this step is responsible for 60-80% of the overall economic costs. Cost reduction in the capture part of the process is key.

Carbon dioxide can sometimes be used as a component of geothermal heat transfer fluid for coupled Carbon Storage and Geothermal heat extraction in an Enhanced Geothermal System (EGS), which allows the technology to be economical at lower subsurface resource temperatures.
A Hybrid Microgrid is a collection of interlinked renewable and conventional energy resources connected to users and controlled by systems to ensure efficient energy usage and storage.

Hybrid Microgrids

Stellae is currently working on multiple Hybrid Microgrid concepts in various sectors/locations to provide low GHG efficient “Energy As A Service” (EaaS) to corporations and communities.

We believe Hybrid Microgrids could provide significant boost to economic development in the communities which are underserved or not served by national grids due to remoteness or lack of infrastructure within a country.
Stellae Energy works with its global partners in variety of ways, from being an active participant in energy joint ventures to providing strategic advice and project management services.

Flexibility is the key in unlocking value.

### BUSINESS MODEL

**Flexibility is the Key**

<table>
<thead>
<tr>
<th>Identify</th>
<th>Identify technologies, projects and opportunities through Pre-Feasibility Studies</th>
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<tbody>
<tr>
<td>Engage</td>
<td>Engage governments, business stakeholders to agree commercial arrangements</td>
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<tr>
<td>Obtain</td>
<td>Obtain license to operate</td>
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<tr>
<td>Arrange</td>
<td>Arrange funding and finance for the project</td>
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<tr>
<td>Execute</td>
<td>Execute and feedback loop</td>
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FINANCE, BUILD, OPERATE
for strategic opportunities Stellae Energy will arrange equity, financing, become developer and operator

Local Partners - Providing local expertise, fulfilling local content and procurement requirements, may come in as minority equity owners as well

Stellae Energy - Arrange financing from banks and investors, invest own equity through funding and financing/development work, operate the project

Banks, Investors - Debt, Bonds

Stellae Energy - Operator/Equity Stakeholders - Equity

Projects - Geothermal Energy, Other Renewables, Micro-grids, Modular Plants, Hybrid Energy Developments, Carbon Capture and Storage, Hydrogen Projects

Stakeholders - Governments, E&P or Mining Companies, Power Companies, Multilateral agencies or supported NGOs - subject to appropriate KYC and Credit Checks

World Class Project Management, Capital Raise Expertise
EQUITY PARTICIPATION

for selected projects Stellae Energy could invest minority equity mostly in the form of assistance provided

Local Partners - Providing local expertise, fulfilling local content and procurement requirements, may come in as minority or majority equity owners as well

Stellae Energy - Providing equity participation through day rate or fixed cost consulting work with direct or back to back contract through local partners for the project

Projects - Geothermal Energy, Other Renewables, Micro-grids, Modular Plants, Hybrid Energy Developments, Carbon Capture and Storage, Hydrogen Projects

Selective Risk Taking to Enhance Project Returns

Banks, Investors - Debt, Bonds

Stellae Energy - Minority stake

Project Owners - Equity

Project Owners - Governments, E&P or Mining Companies, Power Companies, Multilateral agencies or supported NGOs - subject to appropriate KYC and Credit Checks
PROJECT MANAGEMENT

Stellae Energy could work as project managers, strategic technical/commercial advisors

Local Partners - Providing local expertise, fulfilling local content and procurement requirements

Projects - Geothermal Energy, Other Renewables, Micro-grids, ESG, EIAs, Modular Plants, Hybrid Energy, Carbon Capture and Storage, Hydrogen Projects

Stellae Energy - Providing strategic advice and project management services with direct or back to back contract through local partners for the project

Project Owners - Governments, E&P or Mining Companies, Power Companies, Multilateral agencies or supported NGOs - subject to appropriate KYC and Credit Checks

Global Project Management, Strategic Advisory Expertise