



# PROFILE

JUNE 2023

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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.



IEA / IRENA have identified that additional significant efforts are required to scale up economic, renewable energy solutions to help meet decarbonization targets.

# INTRODUCTION

Global Energy Transition

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

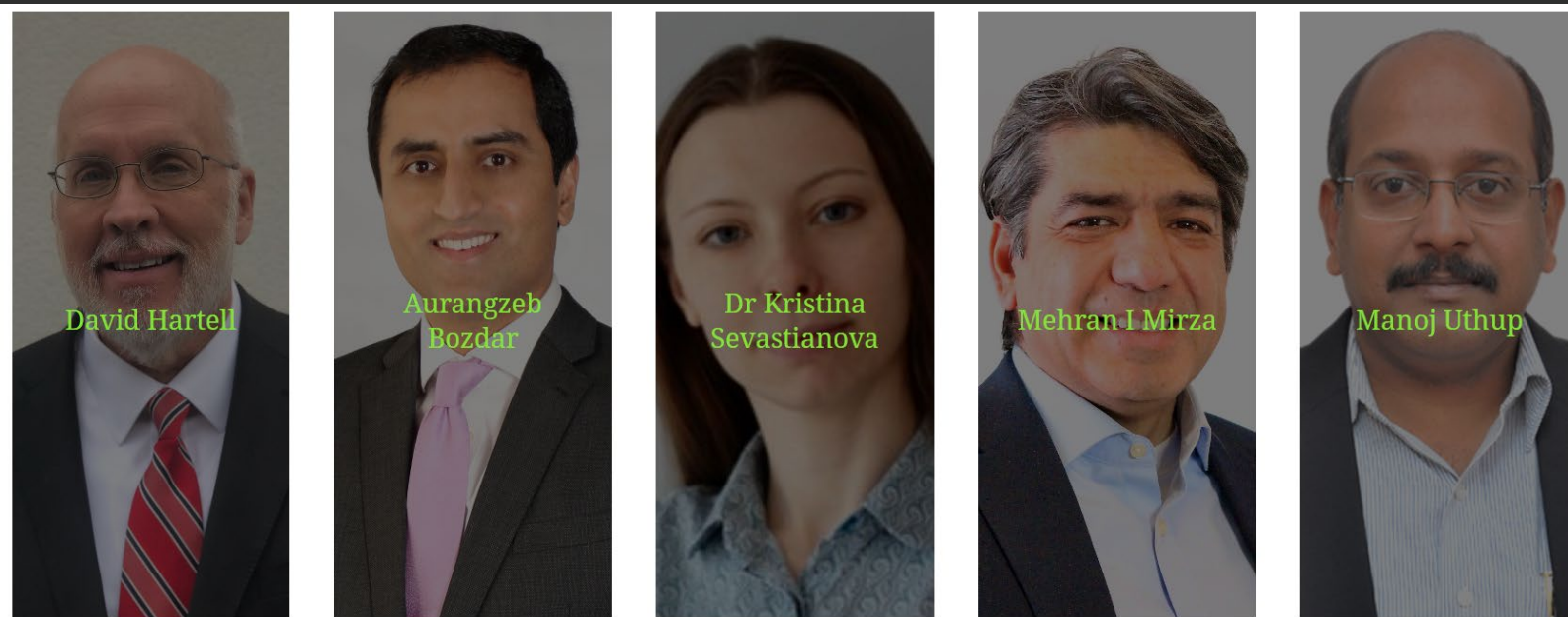
Our main areas of focus:

- Solar, Wind, and Energy Storage Hybrids
- Hydrogen / Ammonia – Production / Storage / Fuel Cells
- Geothermal Energy
- Carbon Capture and Storage (CCS)
- Subsurface Energy Storage
- Distributed Energy Solutions / Hybrid Microgrids





World Class Experts  
Technology Pioneers  
Global Commercial/  
Financial Deal Makers



Focussed on  
Quality of Delivery  
Long Term Partnerships

## OUR TEAM

Wealth of Global Experience in Executing Large Projects

**David Hartell – MD & CEO** – 40+ years of Energy Industry experience including Asset Management, Engineering, Construction, Installation, and Production Operations and Maintenance in the Americas, Europe, Africa, and Asia.

**Aurangzeb Bozdar – MD & CFO** – 28+ years of global experience in raising finance, M&A, organisational development and strategy implementation in Europe, Middle East, Asia, Africa and South America.

**Dr Kristina Sevastianova – Vice President, Energy Asset Developments** – 18+ years of Energy Industry asset development experience, clean energy focus - Solar PV, Wind, Batteries, Hydrogen, and Geothermal. PhD in Energy Facilities.

**Mehran I Mirza - Head of Business Development – Middle East & Americas** – 30+ years of international energy, business advisory experience. He served for two decades in the international energy industry, where he successfully managed strategy and organisational development.

**Manoj Uthup – Senior Advisor** – 25+ years of experience in the Power and Telecom sectors and has been instrumental in incubating and nurturing many successful infrastructure and related energy projects globally.



# ENERGY ASSETS DEVELOPMENT

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

Develop, Own and  
Operate Assets with  
local and international  
partners

# WHAT WE DELIVER

Sustainable Energy Assets Development - Strategy - Project Management

- Stakeholder Engagement, Sustainable Development
  - Site identification, accessibility, grid connection, resource presence
  - Pre-Feasibility, Feasibility, Detailed Design, Construction, Operations
  - Arrange Equity, 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
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- 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.

# TECHNOLOGIES

Sustainable Energy

## Geothermal Energy

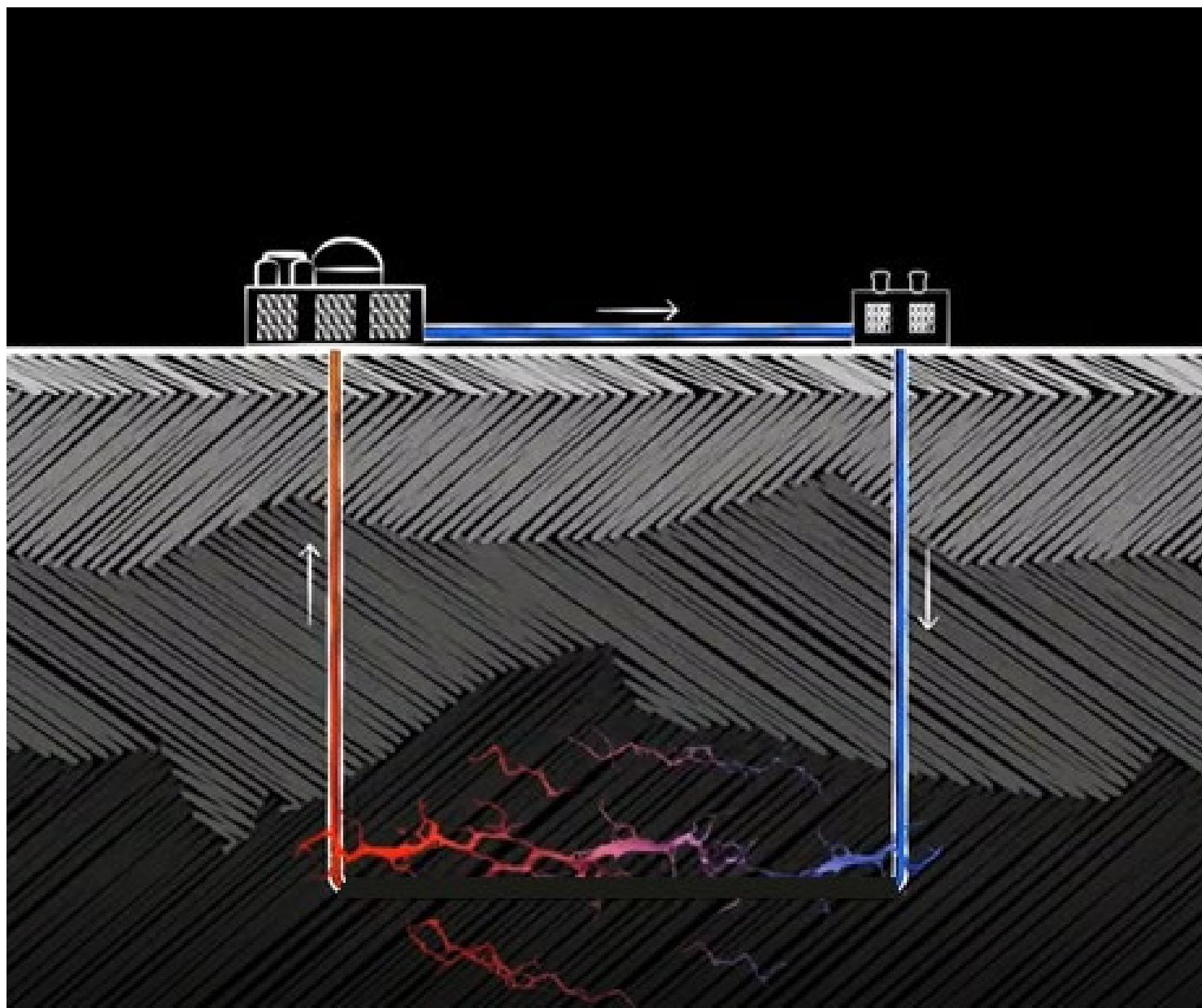
Geothermal Energy uses the Earth's heat to produce persistent electrical energy. It is renewable in the sense that the Earth produces it with internal thermal processes not associated with Man and it is naturally replenished – but it is up to us to access it efficiently and as cleanly as possible.

Medium to high temperature resources are generally required for economic electricity production, and there are many good geographical locations for these resources.

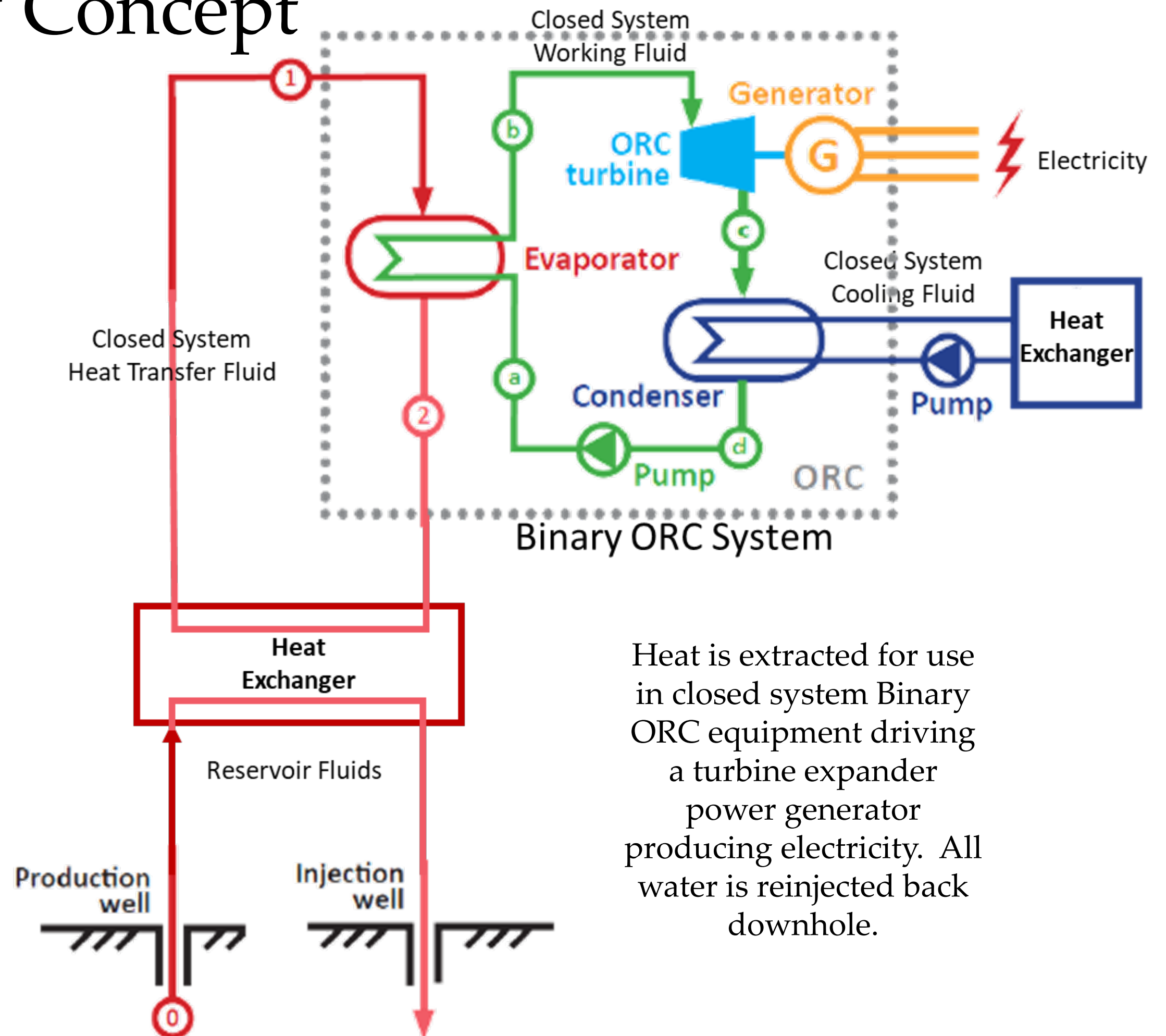




# Geothermal Energy Concept



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.



Heat is extracted for use in closed system Binary ORC equipment driving a turbine expander power generator producing electricity. All water is reinjected back downhole.

$H_2$  and  $NH_3$  are important energy carriers for the Energy Transition since their 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.



$H_2$  and  $NH_3$  can be attractive carriers of Clean Energy or used for Energy Storage

# TECHNOLOGIES

Renewable Power Electrolysis Air Separation Processing

## Hydrogen / Ammonia

Hydrogen or Ammonia can be attractive carriers of Clean Energy; they can also be effective high capacity, long duration Energy Storage mediums. There are good applications in residential, commercial, and industrial settings for power generation or as a transportation fuel.

“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.

“Green Ammonia” is the production of Ammonia by using Hydrogen (above) combined with Nitrogen produced by air separation and processing them together. The energy density of Ammonia makes this well suited for long distance energy transportation.





Carbon Capture and Storage in Depleted Oil & Gas Reservoirs is Technically Well Established and Commercially Feasible with Carbon Taxes and Cross-Border Duties

# TECHNOLOGIES

Geo Engineering

## Carbon Capture and Storage

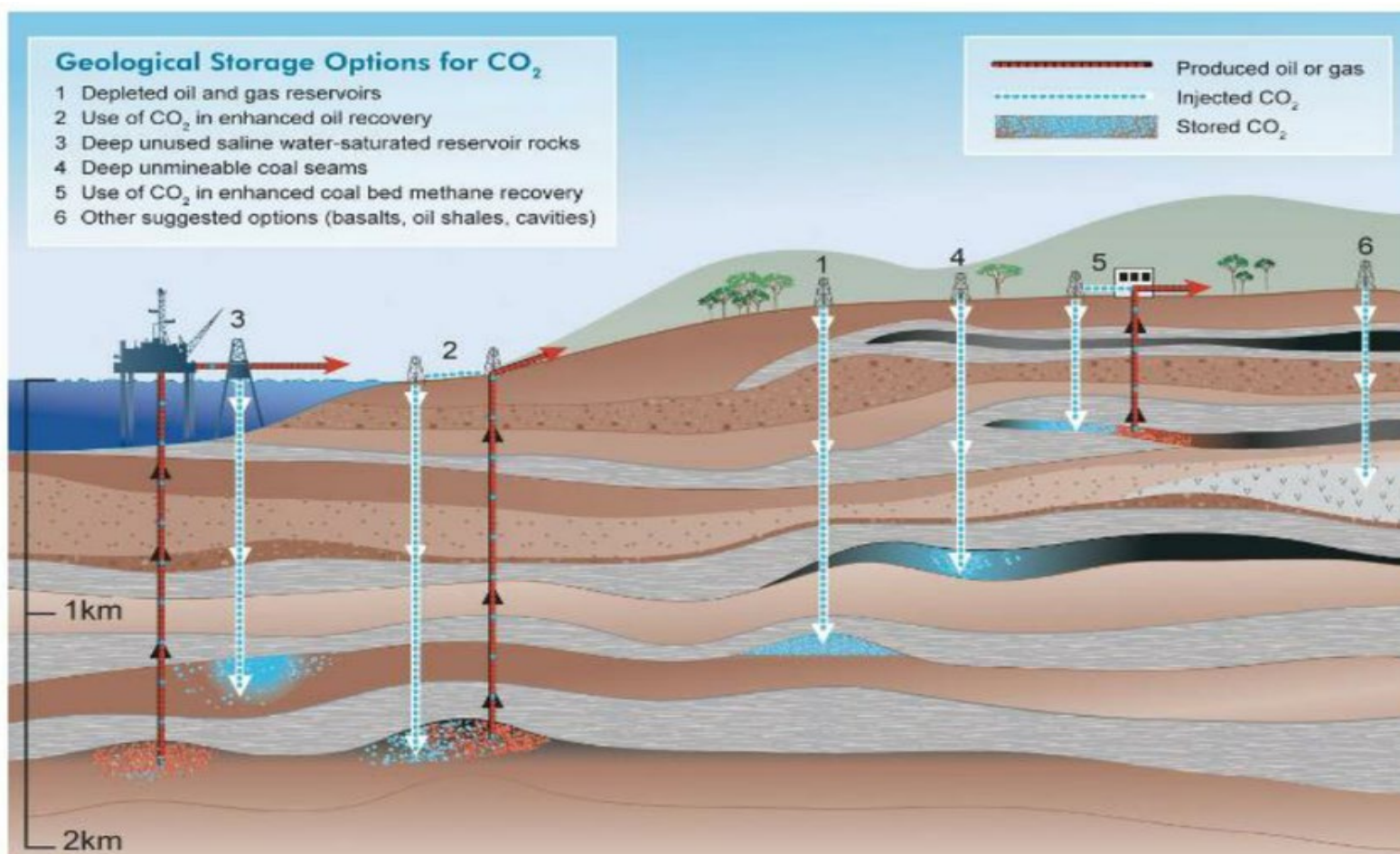
The economics of Carbon Capture is critical to cost effective CCS implementation. Efficiency of CO<sub>2</sub> capture is being challenged to be increased since this step is responsible for 60-80% of the overall economic costs.

CO<sub>2</sub> is well proven for Enhanced Oil Recovery (EOR) and Carbon Sequestration occurs during injection with a percentage of the gas remaining in the rock during each cycle.

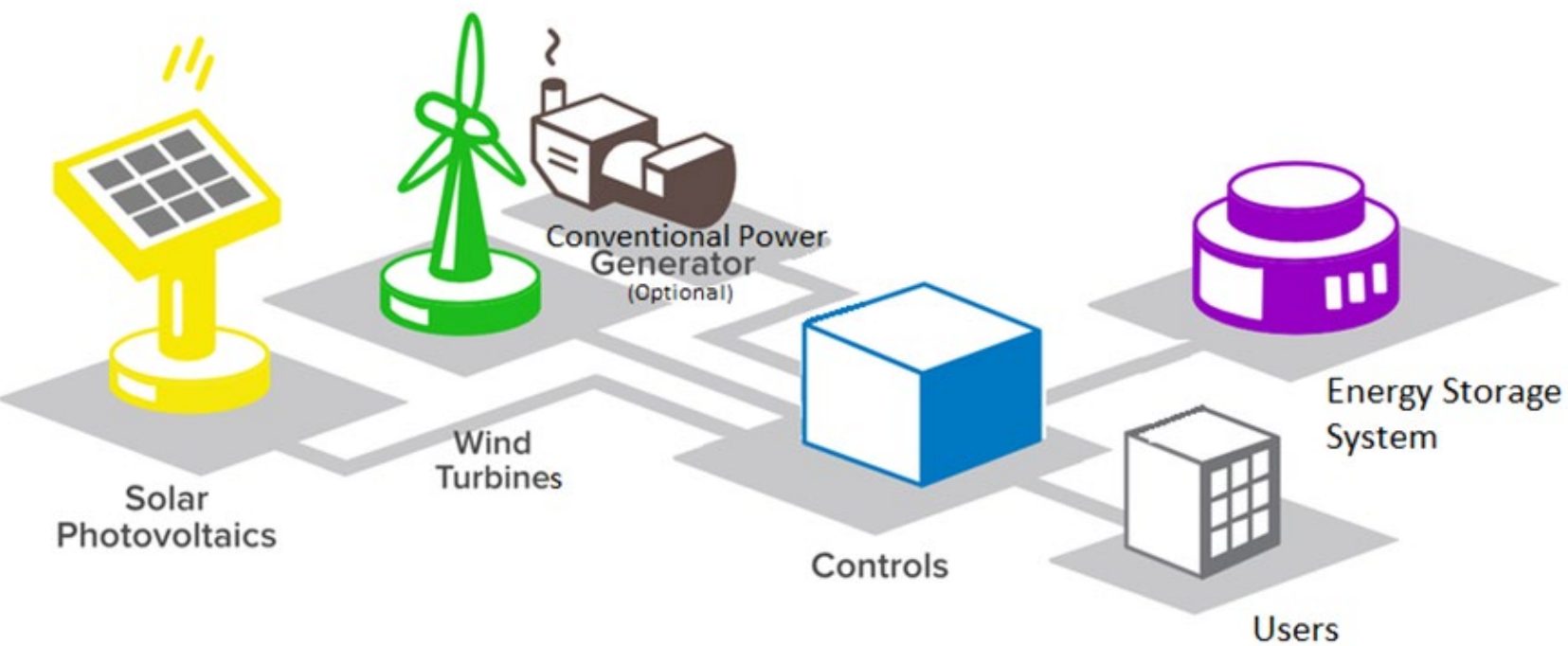
Carbon dioxide can sometimes be used as a component of geothermal heat transfer fluid for coupled Carbon Storage and Geothermal heat extraction in an Enhanced Geothermal System (EGS), which allows the technology to be economical at lower subsurface resource temperatures.



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



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.



Energy Poverty is the largest limiting factor to economic growth in the world.

# TECHNOLOGIES

Community Development Goals

## 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



Currently Three Flagship Projects Ready for Equity Raise

# BUSINESS MODEL

Flexibility is the Key

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Identify	Identify technologies, projects and opportunities through Pre-Feasibility Studies
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Engage	Engage governments, business stakeholders to agree commercial arrangements
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Obtain	Obtain license to operate
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Arrange	Arrange funding and finance for the project
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Execute	Develop, Own and Operate Assets
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# OUTLOOK

Join Global Energy Transition Evolution

- Stellae Energy team has created some exceptional projects and global collaborations during the last three years.
- We are pleased to mature three flagship projects.
- Actively pursuing Global Investment Partners to develop these projects.
- All projects are ESG++ initiatives supporting Cleaner Energy Transition with excellent NPVs and robust IRR.





StellaeEnergy.com

THANK YOU

for your kind attention

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