

Renewables, Globally



Mission and Vision

Exceptional knowledge and expertise across the renewables industry

TUSUR Energy

The company brings together commercially-minded and mission-driven talent to be led by over 20-years' experience in the renewable energy industry across four continents.

TUSUR's team

will help its clients develop, own and operate high value renewable energy projects with a meaningful social, environmental and economic impact. Driven by knowledge and relying on specialist partners, TUSUR will deliver clarity and certainty on its clients' projects performance at every stage in the life cycle.

TUSUR's core objective

is to help its clients understand how they can get more energy, more reliably and for longer, from their renewable energy projects.

TUSUR's staff

and its trusted partners are its core intellectual property, built upon individuals with unique experience in the renewables industry.

TUSUR core team

Pieter D'haen - Advisory and Development



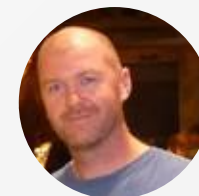
- 2004: with three others, set up a new company focused on wind farm development and renewable energy consultancy
- Worked as investor lead on a 360MW German offshore wind project
- 2006: project director for the world's highest utility scale wind turbine in the Argentinean Andes and established development subsidiary in South America
- 2012: Responsible for creating a 1.4GW pipeline and sale of 250MW
- 2014: Transitioned to independent power producer through \$3.3m IPO on LSE AIM
- 2016 - 2021: Corporate leadership with P&L responsibility: revenues in excess of \$10m and 80 renewable energy experts

Euan Fenelon - Operations



- 17 years in utility industry, last 7 years exclusively in the renewable energy industry
- A director with experience in global operations and asset management
- Access to a global network of partners and suppliers

Gary Duff - Design and Construction



- 15 years in the renewable energy industry
- expert in pre-construction and construction management of renewable energy projects

Key Partners

TUSUR works with carefully selected partners, each a specialist in their own field, and covers every aspect of developing, financing, owning and operating wind and solar projects. It has no affiliation or exclusivity with any particular supplier, to truly maintain its flexibility to find the optimal solution, whatever the location, whatever the size, whatever the renewable technology.

Examples:

Analytics / advisory



Operations



Inspections



Financing



Brookfield



Our Services in wind and solar



Whether one particular project aspect or a complete greenfield development, TUSUR can support its clients every step from concept through financing to operation.

01

Feasibility and Development

Concept to full design

- From macro-country analysis to site assessment
- Monitoring campaigns, energy yield calculations, equipment selection and project optimisation
- Detailed design and engineering, including foundations, access roads, electrical infrastructure and ancillaries

02

Financing and Construction

design to commercial operations

- Environmental project management in accordance with international standards to ensure global financing options
- Pre-construction management: contractor selection and contracting structure
- Construction management and supervision, project commissioning
- Source, evaluate and select financing partners

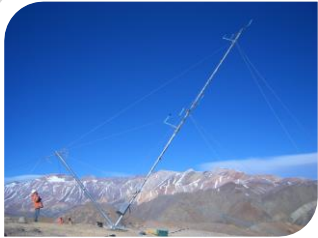
03

Operations and Maintenance

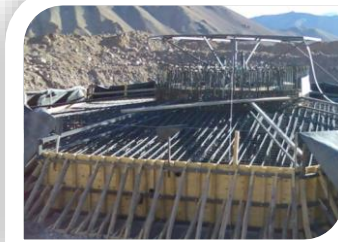
Total asset management

- Train and manage in-country asset management services
- Evaluate and develop, where necessary, the resources to undertake equipment servicing
- Inspections from general health checks to intrusive visual inspections and SCADA data evaluation
- Organise repairs, including major component exchanges

Case study: High altitude wind turbine



Monitoring programme with heated anemometry and SODAR unit



Constructed a reinforced concrete foundation in the depth of Andean winter



Logistics design, including a hydraulic transportation rig to negotiate the 160km dirt mine track



Adapted, erected & maintained the utility scale wind turbine, suitable for high altitude



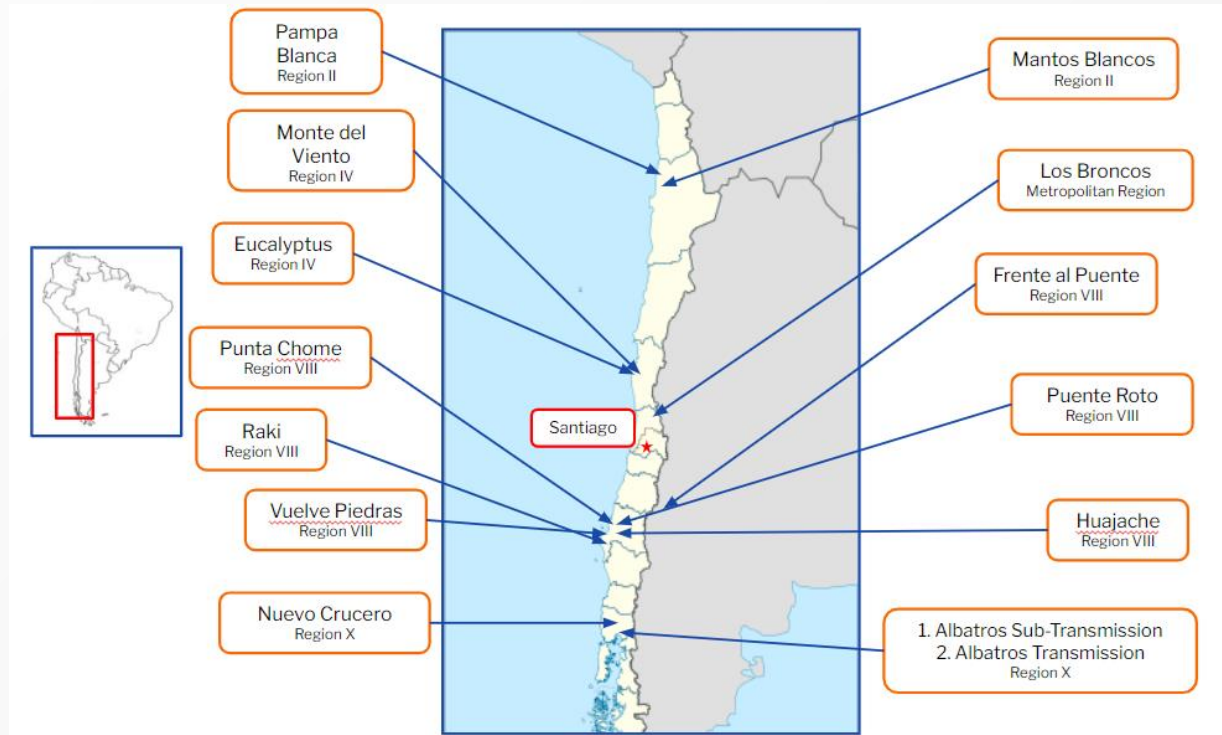
Case study: hybrid HFO - wind farm 37MW

- Wind data monitoring campaign
- Feasibility study, including preliminary design, turbine selection and grid connection design of a 20MW wind farm
- Environmental studies, detailed design and engineering
- EPC contracting, including turbine supply
- Integration with 17MW HFO station
- O&M support + training



Case study: portfolio development

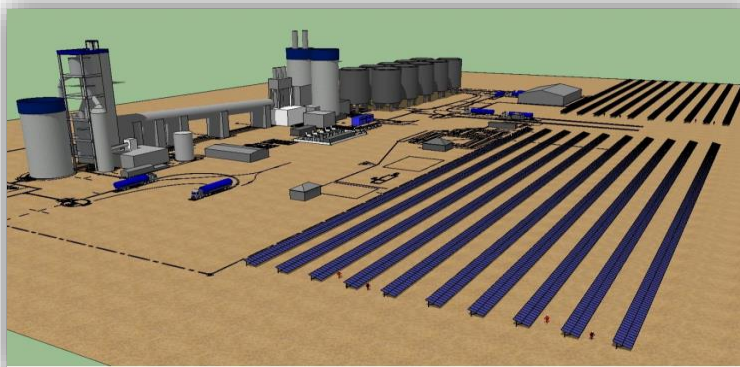
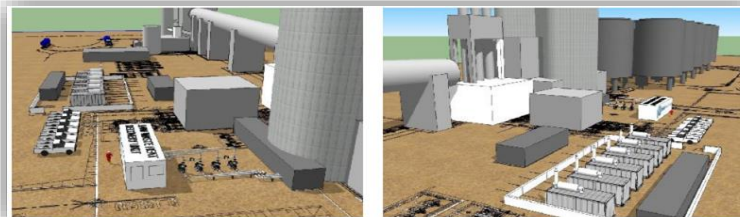
- development of a 1.4GW project portfolio of wind and solar projects in Chile, sample locations shown below:



Case study:

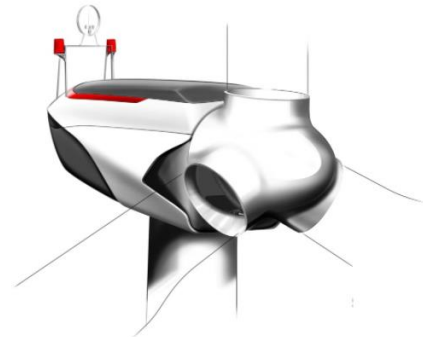
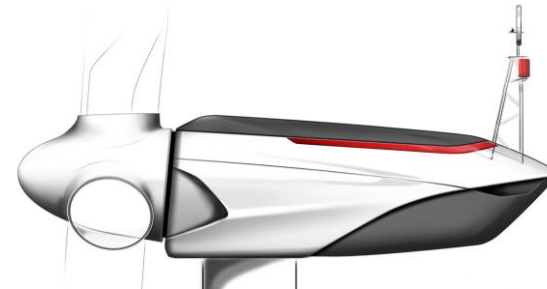
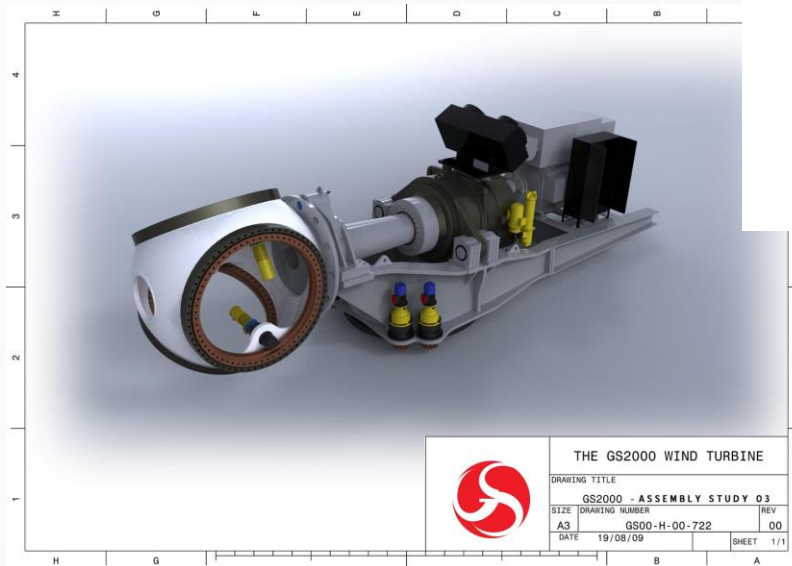
Renewable energy - heat recovery calcium production

- Feasibility study, front-end engineering & design
- Diesel – solar – waste heat recovery hybrid plant
- multi-MW photovoltaic solar energy array supply
- waste heat recovery plant
- Blended cost of energy less than \$100/MWh



Case study: Wind turbine design

- Full design of a 2MW wind turbine on behalf of a Chinese customer 'Guangzhou Guangdong Enterprise Group Corporation'
- Component selection + purchasing
- assembly supervision and certification management
- Partnered with a German engineering company and various European suppliers



Case study: off grid diesel displacement

- Project in the Aysen region, Chile
- Supply to mining project
- Offset of diesel generation
- Financing under PPA arrangement
- Feasibility, design, financing and construction
- Operational support

