



ErgoSynergy Constructions

Energy Portfolio Presentation

Part of

ErgoSynergy

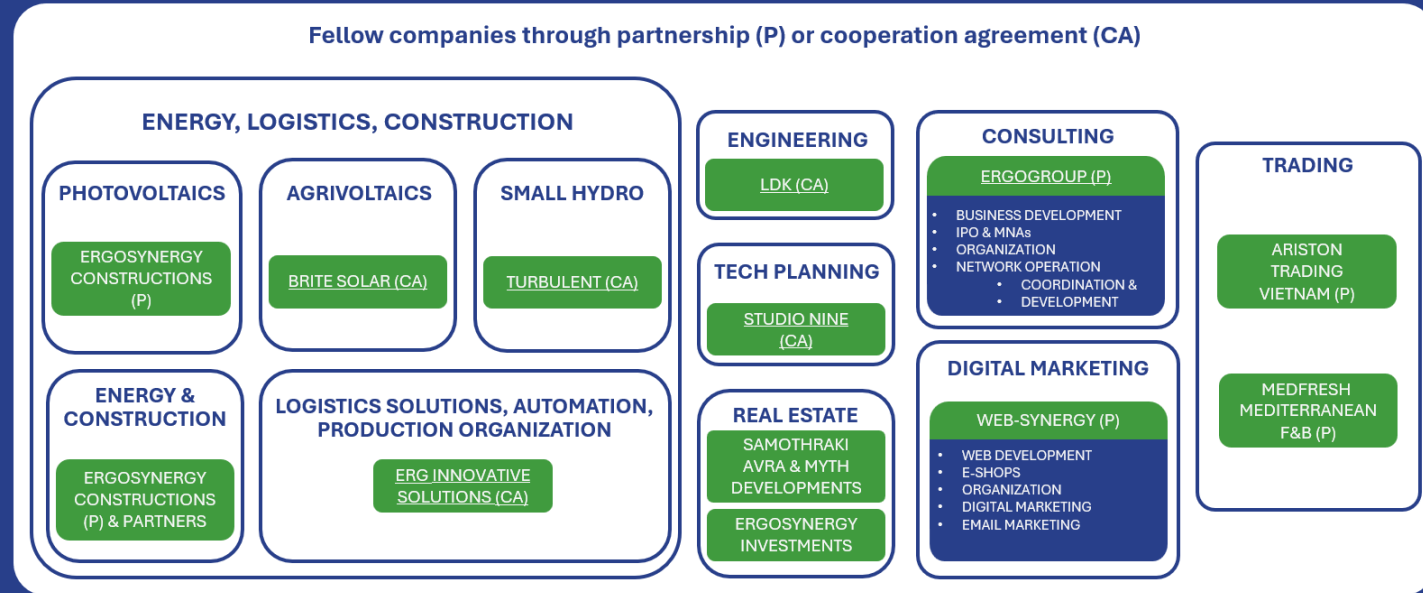
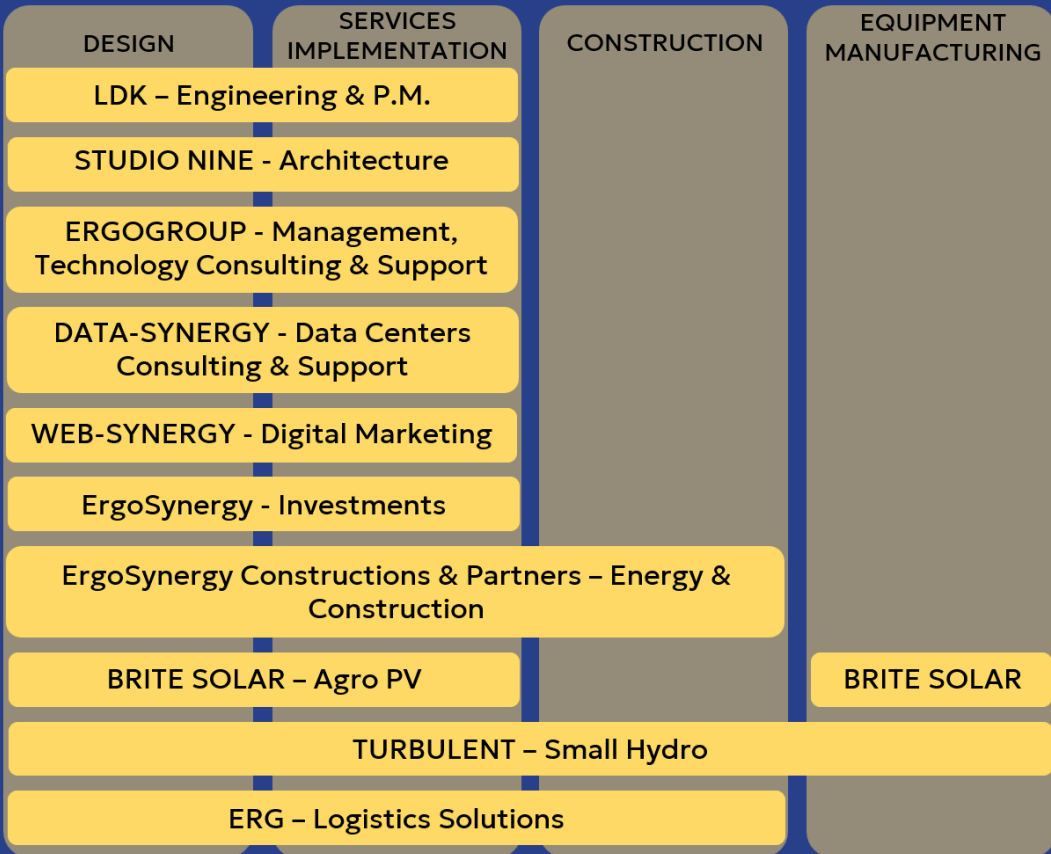
Holdings SA

ErgoSynergy Constructions:

- is the **Energy & Construction platform** of the ErgoSynergy Group.
- develops and delivers **energy, construction, and infrastructure** projects, directly and in collaboration with specialized partners across **engineering, architecture, energy technologies, logistics** infrastructure, and **real estate** development.
- provides a **single coordination point** for multi-disciplinary projects. Depending on scope, ErgoSynergy Constructions executes work inhouse and/or assembles the right partner team, **aligning deliverables, timelines, documentation, and quality standards, from concept to completion.**



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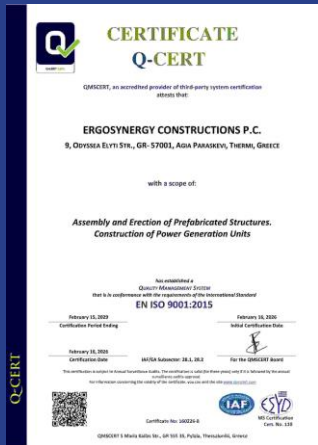


ErgoSynergy Group

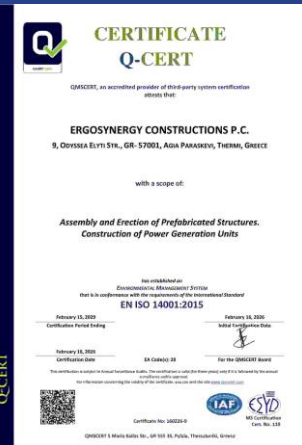
- a holding company providing a comprehensive range of services and solutions to international clients, while offering smart investment opportunities to its shareholders.
- optimize outcomes and ensure safety through economies of scale by integrating the expertise, experience, and networks of our technology subsidiaries and partners with our core strengths in business development, management, financing, and IPO consulting.

Certified Management Systems

ErgoSynergy Constructions implements an integrated management system that incorporates all processes of operational planning, project execution, and control, while ensuring the protection of employees and the environment. The systems and procedures are aligned with the relevant ISO requirements and have been certified in accordance with the international standards ISO 9001, ISO 14001, and ISO 45001.



ISO 9001
Quality Management System

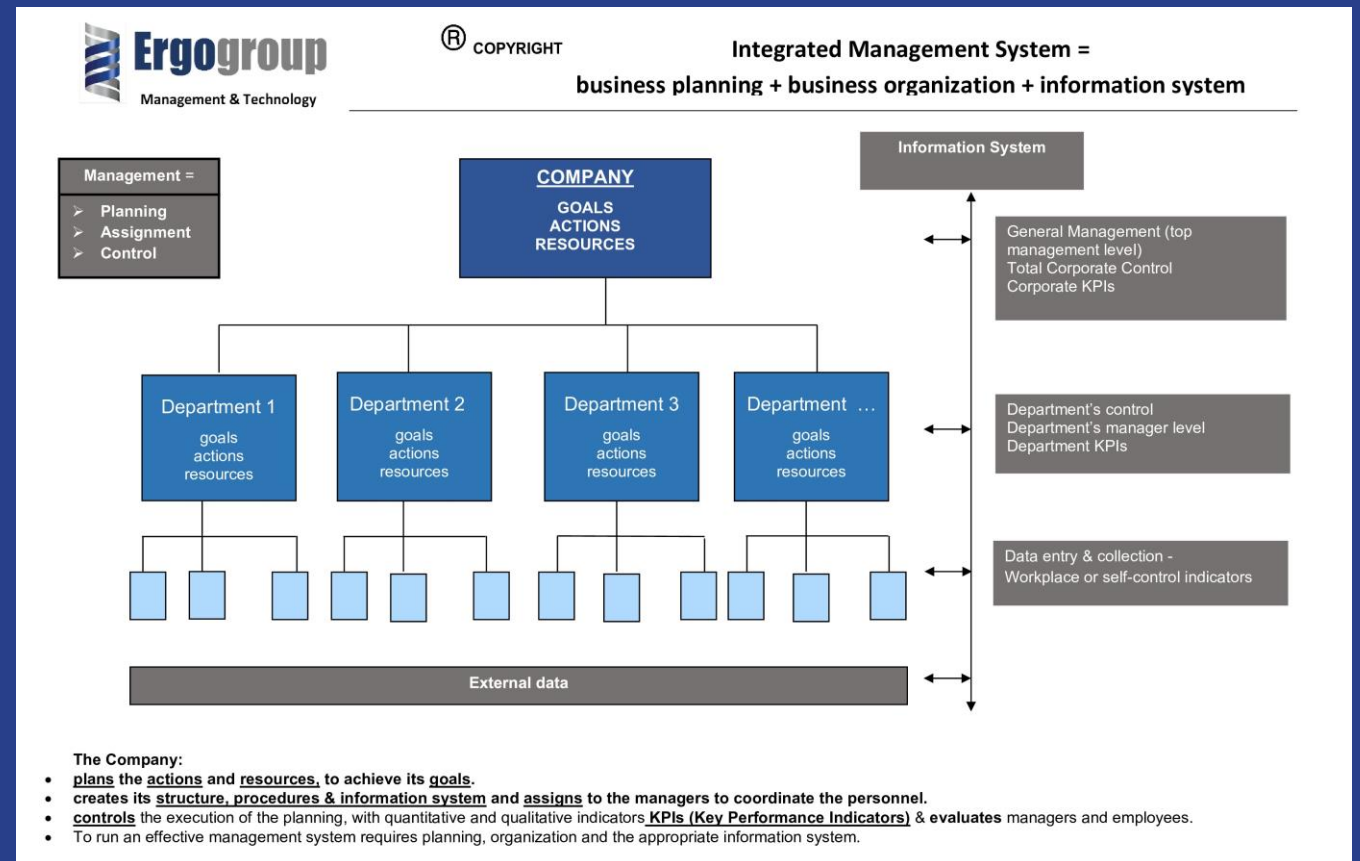


ISO 14001
Environmental Management



ISO 45001
Health & Safety Management

[Click here to see the certificates](#)



Project executed by:



ENERGY CONSTRUCTION / INSTALLATION PROJECTS



Working with partners on a very wide range of projects, including photovoltaics, battery solutions, hydrovoltaics, wind turbines and agrivoltaics, developing both simple and complex projects, small and large, while also taking on their maintenance.



Lemvig Denmark 48MW , Tracker system Next Tracker

Project executed by:



ENERGY CONSTRUCTION / INSTALLATION PROJECTS



Lemvig Denmark 48MW ,
Tracker system Next Tracker



PV 7MW Cyprus

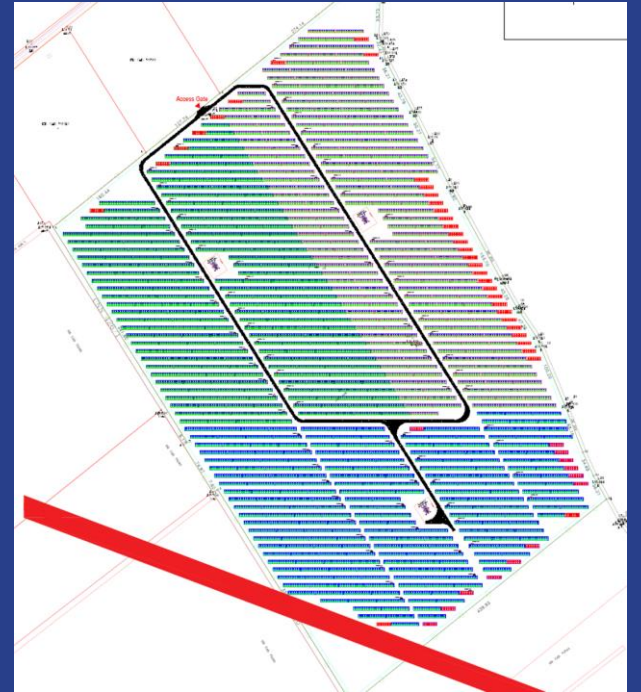
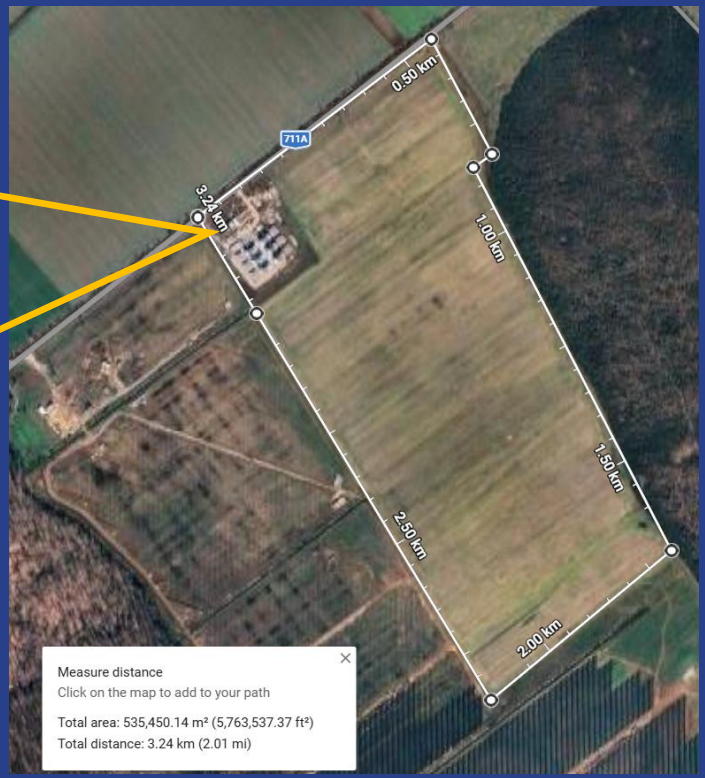
Project executed by:



ENERGY CONSTRUCTION / INSTALLATION PROJECTS



Romania PV 30MW



Project executed by:



MACHINERY

2 X PV Solar Farm Pile Driver Machine with Hydraulic Impact Hammer



2 X 4ton-18m-Telescopic-Boom-Telehandler



2 X Hydraulic Backhoe Loader

1 X 3.5ton Diesel Gasoline Forklift



Project executed by:



ENERGY STORAGE & DRONE SURVEILLANCE



String PCS Station (HPPS Series)



Integrated Inverted Booster Unit



Project executed by:



LDK

long history, expertise, international activities

Since 1968, LDK Group is setting its mark in pioneering and iconic projects in energy, environment, buildings and infrastructure.

With 120 employees, 9 offices across 8 countries in 3 continents, implemented more than 2.900 projects. The Group is a trusted partner of international organizations, such as World Bank, European Bank, EBRD, United Nations Development Projects and investors, multinationals and other companies.

LDK has specialization and large experience in Energy, providing:

- **Energy Efficiency Services:** Assessing and enhancing energy efficiency and workplace environments using specialized simulation software and detailed studies.
- **Energy Audits & Carbon Footprint Reports:** Tailored primarily for listed companies.
- **Energy Studies, Project Management, and Due Diligence:** Alongside a wide range of complementary services to meet complex energy-related needs.



LDK Consultants in Numbers

Pioneers in Sustainability since 1968

56
YEARS
OF OPERATIONS

5
SUBSIDIARIES
IN 3 CONTINENTS

120
COUNTRIES

2.900
PROJECTS

5
CONTINENTS

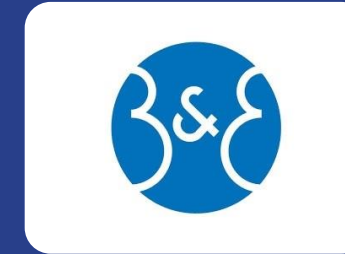
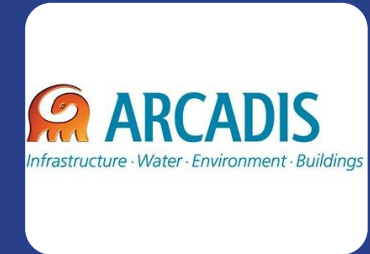
6
DIVISIONS

120
EMPLOYEES
60% MEN | 40% WOMEN

Project executed by:



CLIENTS



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Project executed by:



SECTORS

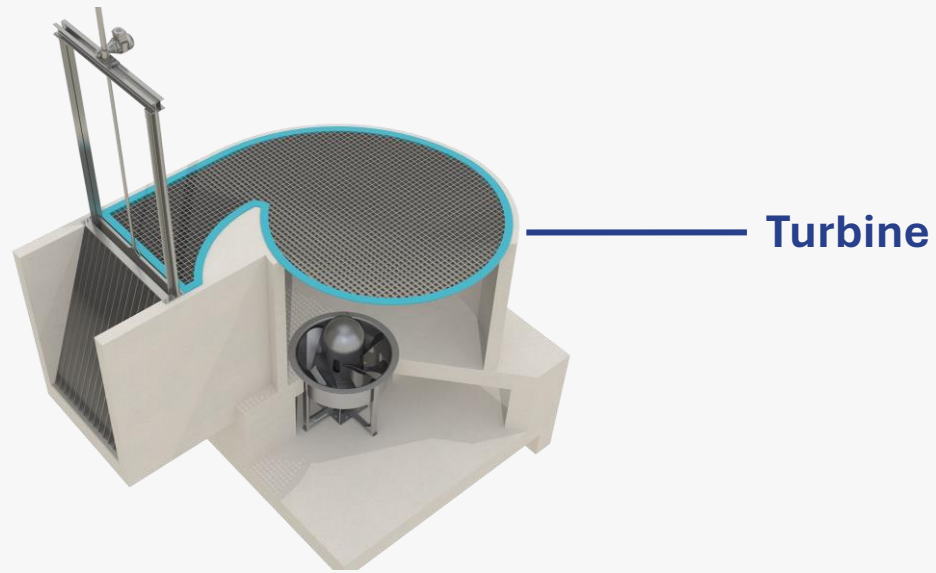


Project executed by:



MICRO-HYDRO EFFICIENCY

TURBULENT specializes in micro-hydro projects with a global presence and is headquartered in Brussels, Belgium. The company's philosophy focuses on designs and project scales that harmonize with the natural environment, enabling multiple installations along rivers and streams. This strategy boosts both total power output and overall project efficiency.



110kW project in Kenya



Project executed by:



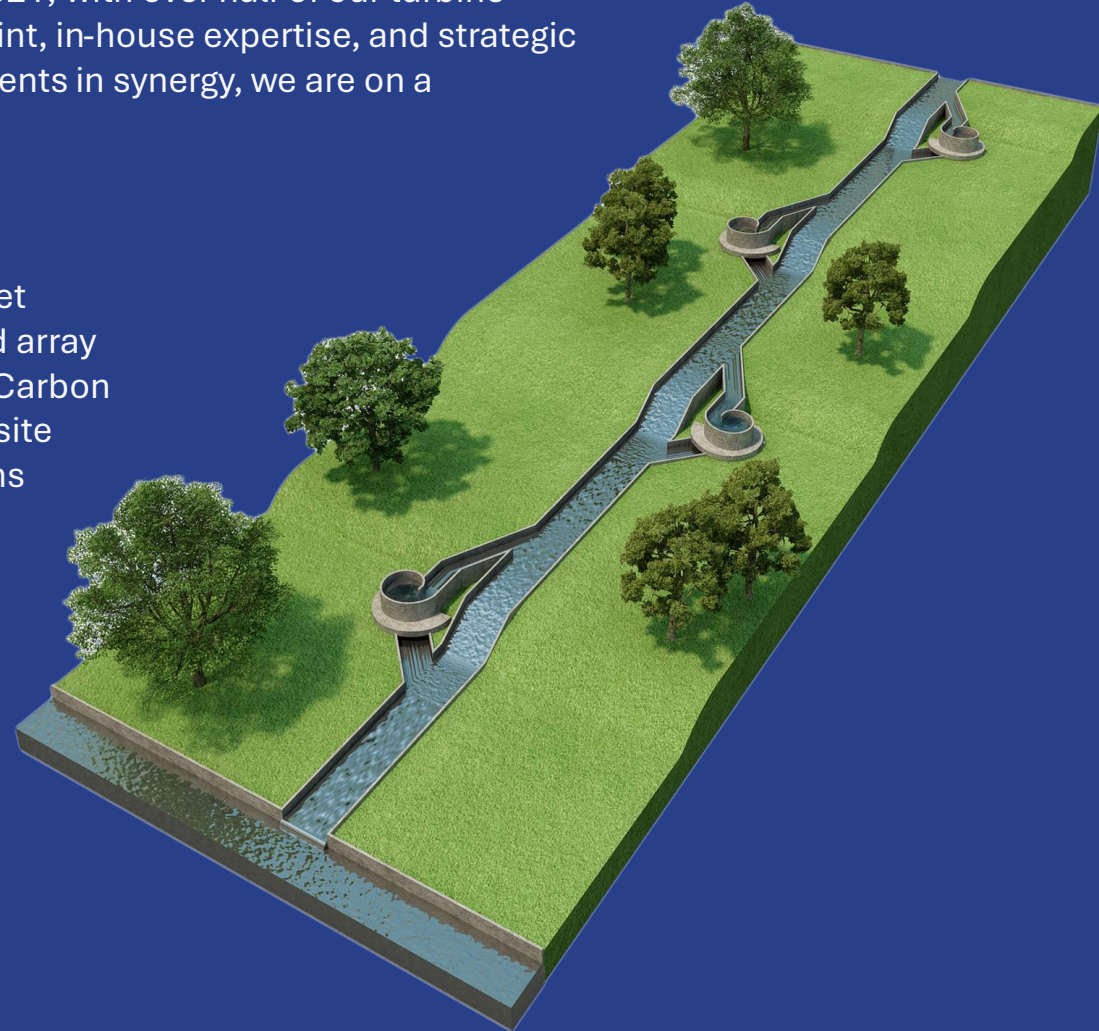
PIONEERING PROFITABLE AND SUSTAINABLE ENERGY SOLUTIONS



On a Pathway to Profitability, Turbulent has experienced a revenue upswing since 2021, with over half of our turbine inventory sold since 2022. Our comprehensive revenue channels, international footprint, in-house expertise, and strategic partnerships have all been pivotal in our focused sales methodology. With these elements in synergy, we are on a calculated path to profitability by the year 2025.

Adapting to the World's Needs with Evolving Technology Informed by rigorous market analysis and growth potential, we are scaling our turbine designs to fulfill an expanded array of applications. This includes the integration of fish ladder technology and leveraging Carbon Credit incentives to penetrate new markets in Less Developed Countries (LDCS). Our site optimization is poised for enhancement, with plans to bolster our existing GIS solutions through the integration of advanced, intelligent AI algorithms.

Advocating for Change, Advancing Sustainability In the renewable energy sphere, Turbulent is more than a participant—we are a catalyst for policy reform and a proponent of environmental progress. Our influence extends to the halls of power, where we advocate for policy changes that accelerate the adoption of renewable energy solutions. We're not just modernizing hydropower, we're redefining it for a sustainable future.



Project executed by:



PRIZES AND AWARDS



Turbulent has gained worldwide recognition and support from various companies aiming to promote micro-hydropower and make it part of the current landscape of renewable energies.

Other Prizes and Awards



Winner. Climate & Energy Trends Impact Awards, Belgium



Winner. Global SME Companies Trends Impact Awards, Belgium

2018

3rd place. EIT Venture Award. Budapest
2018 Winner. DemoDay, Start it KBC

2016

1st prize. CleanTech Challenge Belgium. Leiden, Belgium
1st prize. Engie Endeavor Innovation South America. Santiago, Chile
1st prize. Orcelle: Future Of Logistics Award. Ocean Exchange. Orcelle. Savannah, USA
Innovators under 35, MIT Technology review, Boston, USA
Winner P18 Incubator

2015

1st prize. Pitch Startup Nations Summit. Best startup in the world. Monterrey, Mexico
1st prize. Startup Chile Incubator
3rd place. Hello Tomorrow Challenge. Paris, France

2014

Winner of Cleantech Challenge Belgium. Leuven, Belgium
2nd place. Cleantech Challenge International London, UK



Inclusive company award by "werkplek architecten"



CTC-N membership



Cleantech Hero in Energy by Cleantech Flanders

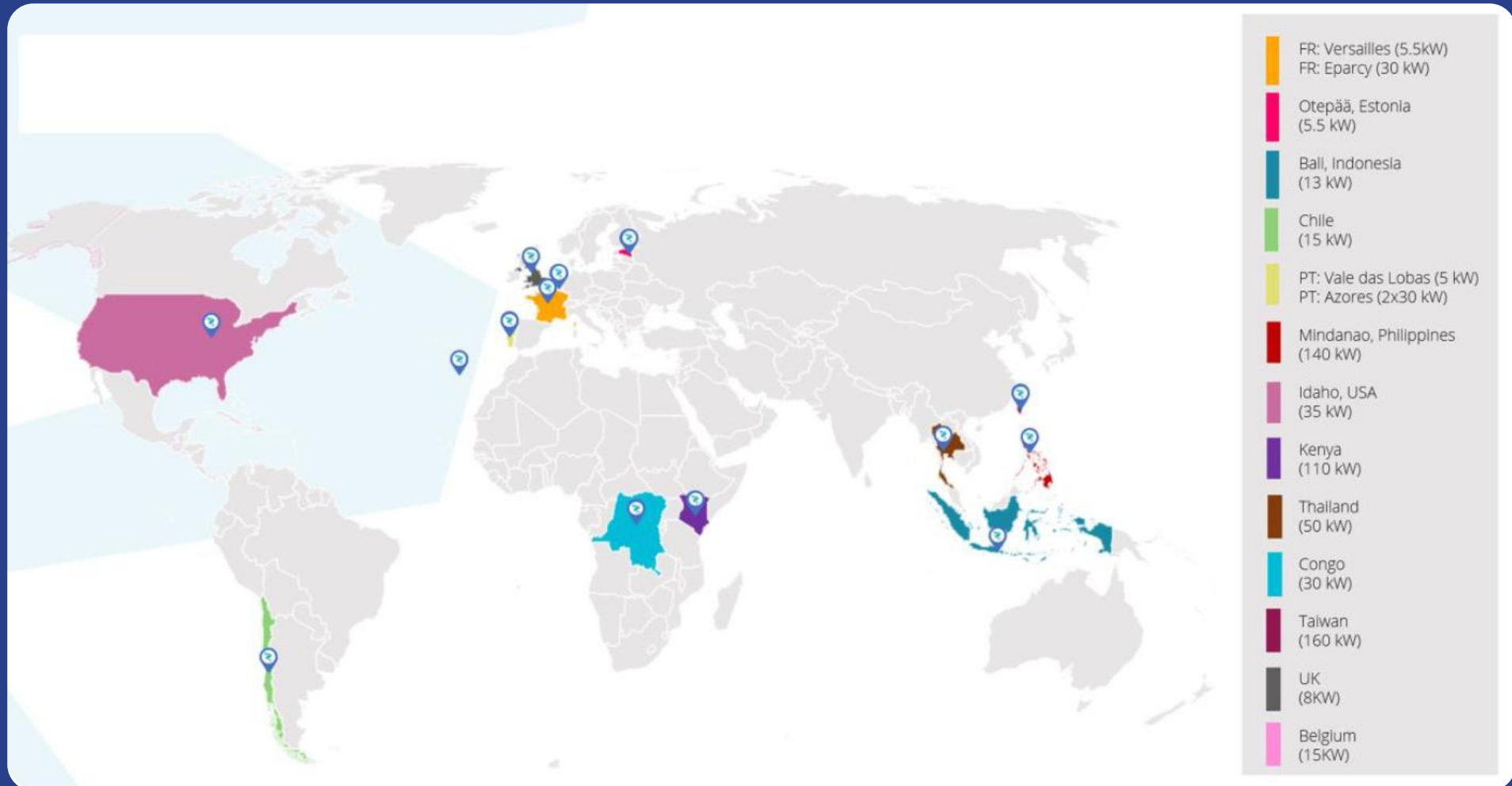
Project executed by:



CLIENT PORTFOLIO



Exceptional international outreach – Turbulent has sold twenty four, of which fourteen since 2022, spread over five continents. Their priority goes out to multiple turbine projects.



Project executed by:



Energy Innovations in Glass & Agrivoltaics

Brite Solar leverages nanotechnology developing and marketing advanced solar glass products with variable transparencies for both architectural and agricultural applications.

Its innovative glass reduces the energy footprint of buildings by minimizing heating, cooling, and lighting needs while generating electricity from light. In agriculture, Brite Solar's glass is used in greenhouses and open-field cultivations, enabling energy-autonomous operation, water savings, and sustainable farming practices.

By 2025, Brite Solar aims to become the sole Greek large-scale producer of semi-transparent PV panels, supplying agrivoltaic units and sustainable solutions to international markets.



Greenhouse vineyard

Open-field strawberry cultivation



Tomato greenhouse



Project executed by:



Products



Energy Innovations in Glass & Agrivoltaics

Brite Solar brings extensive expertise and proven experience in implementing agrivoltaic solutions across a wide variety of plants and farms.

Additional Benefits:

- **Panel Production:** Manufactured locally in Greece and across Europe.
- **Specialized Know-How and Comprehensive Support**
- **Global Experience:** Successfully applied agrivoltaic systems internationally.

Electrochromic – Dynamic Glass



Solar Glass



Project executed by:



Events



Partnerships

- [University of Wageningen, Netherlands](#)
- [Delft University, Nederland](#)
- [University of Jaén, Spain](#)
- [Imida Instituto Murciano de Investigación y Desarrollo Agrario y Medioambiental, Spain](#)
- [Karlsruhe Institute of Technology \(KIT\), Germany](#)
- [Solar Energy Institute, Izmir, Turkey](#)
- [Hellenic Mediterranean University](#)
- [University of Patras](#)
- [University of the Peloponnese](#)
- [Institute Nanoscience and Nanotechnology \(INN\), National Center for Scientific Research "Demokritos"](#)
- [ELGO Hellenic Agricultural Organization 'DIMITRA'](#)



Agrivoltaics Industry Forum Europe 2024 in Madrid



EIMA Bologna Expo



AgroPV 2024 Conference in Poland