

www.cieleterre.net



www.D3Energy.com



D3Energy is a premier solar developer, exclusively developing floating solar (FPV) projects with expertise in all areas of FPV from early stage development & engineering, installation, service, and maintenance.

D3Energy has engineered and/or developed projects all over the world, including multiple projects in the state of Florida, New Zealand's first ever floating solar array, water storage reservoirs in the Caribbean, and various other projects here in the U.S. Most recently, D3Energy developed and installed an FPV system for the U.S.'s largest electric company, Florida Power & Light at Miami International Airport. D3Energy believes FPV is the 'wave' of the future in the solar industry.

Our manufacturing partner, Ciel & Terre has been distributing its industry leading solution, Hydrelio® since 2011. As the floating solar pioneer and expert, they provide their solution all over the world. Today, there are over 200 FPV systems, in 30 different countries, generating over 690MWp that utilize the Hydrelio® technology.

D3Energy and Ciel & Terre have entered a partnership to market and develop floating solar systems, primarily focused on the United States.







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ABOUT US

Initially specialized in the integration of rooftop and ground-mounted PV systems, Ciel & Terre® has then followed the path of innovation to develop the **patented technology 'HYDRELIO®**', an optimized floating system for solar plants to be installed on water.

Ciel & Terre® has been distributing its solution and developing floating PV plants for commercial, industrial, and local government institutions since 2011. As the **floating solar pioneer and expert**, we provide our solution all over the world through strategic partnerships.

Today, **200 floating PV farms**, equivalent to over **375 MWp**, utilize Hydrelio[®] technology and this number is expected to reach more **690 MWp in 2020**.



14

YEARS EXPERIENCE



13

LOCAL OFFICES



160

COLLABORATORS

WORLDWIDE

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HISTORICAL **MILESTONES**

55

Traditional PV plants installed



200

Floating PV plants installed



70 MWp

The largest floating PV plant using Hydrelio® technology



FLOATING PV

2006 Foundation of

Ciel et Terre



2009

TRADITIONAL

Arch'Helios® – patented rooftop racking system

2010

Hydrelio® – patented floating PV system Installation of the first prototype in 2011 (Piolenc, France, 15 kWp)

Full orientation towards an innovative concept, 'floating solar'.



2013 - Okegawa, Japan, 1,080 kWp

2013

Ciel et Terre International – C&T Holding Ciel Terre Japan – first office abroad Installation of the world's first MW-scale floating PV plant (Okegawa)

2015

Floating Solar UK – JV in the UK | CT East Asia Ltd. – JV in China Techwin Co., Ltd - License in South Korea

2016

Ciel et Terre USA Inc. CT Taiwan – JV in Taiwan

2017

Ciel et Terre ASEAN & Oceania Akuo Energy – License in France

2018

Ciel et Terre India Sunlution | F2B – Licenses in Brazil

2019

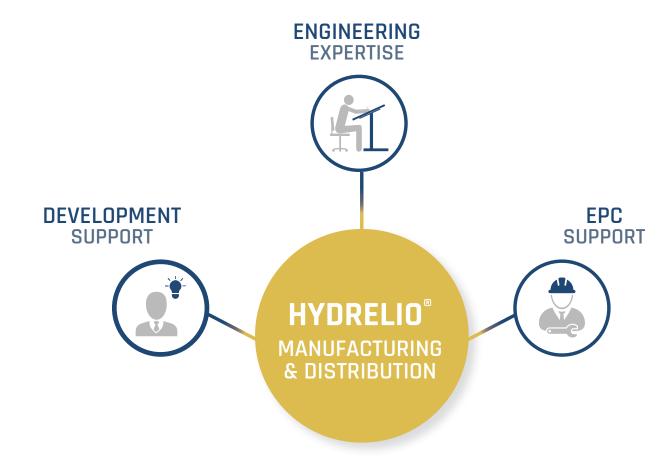
Ciel et Terre ASEAN & Oceania – Second Office in Thailand

2020

Laketricity, a Ciel & Terre company

WHAT WE OFFER? EXPERTISE WITH CUSTOMIZED SOLUTIONS

Over the years, Ciel & Terre® has gained a recognized expertise and a strong experience in the installation of large-scale floating PV plants on artificial and fresh water reservoirs. Our team has a thorough understanding of floating PV's challenges and is able to assist you all along the project development process. Our expertise encompasses: feasibility study, engineering design (Hydrelio® and anchoring), supply of anchoring systems, construction training and supervision, as well as consulting solutions.



WHY FLOATING SOLAR? AN ALTERNATIVE TO TRADITIONAL PV

Floating solar particularly makes sense in areas **where valuable land is scarce and/or expensive**, for various reasons: necessity to preserve agricultural and natural lands, areas with a high population density, small or island countries... Suitable ground is costly and land is rarely available for solar projects near to grid infrastructures. Taking advantage of these existing but unused water surfaces – often close to the most intensive energy users, namely industrial and urban areas – prevents massive infrastructures, expensive transport and distribution, and technical losses.

Hydrelio® technology is the perfect solution for **many types of water bodies**, including **dams**, **quarry lakes**, **irrigation or water-treatment ponds**. Additionally, these man-made reservoirs are typically unobstructed from the sun, kept out of sight, and located near energy-intensive consumption sites making these spaces ideal candidates for solar PV systems.



ENVIRONMENTAL BENEFITS



- Neutral or positive environmental impact, no danger to existing ecosystems
- Minimizes evaporation by covering water
- Improves water quality and reduces algal bloom thanks to the platform's shading
- Limits reservoir erosion by reducing wave action

SOCIAL BENEFITS

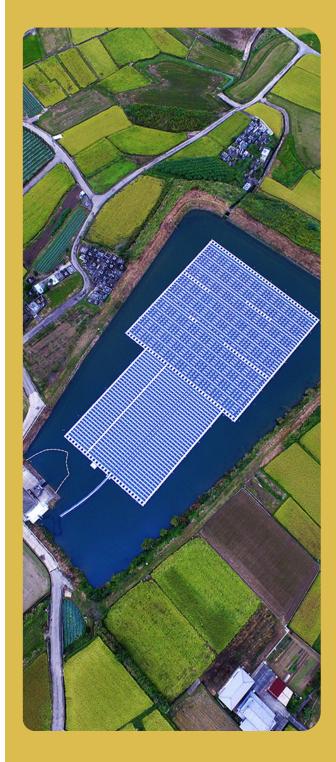


- Preserves valuable land and water for other uses
- Rehabilitates contaminated areas with clean energy
- Compatible with recreational activities
- Amenity, positive aesthetics

ECONOMICBENEFITS



- Converts unused spaces into profitable areas
- Reduces grid-connection costs and major infrastructures investments
- Smoothest & fastest development processes
- Enhances electricity generation thanks to water's natural cooling effect



HYDRELIO® TECHNOLOGY

40+

LINES OF MANUFACTURING

7

REGISTERED PATENTS

9

YEARS OF CONTINUOUS R&D



Hydrelio[®] Classic
The standard version



Hydrelio® **aiR**The 'airy' version



Hydrelio® Equato
The low-tilt version

The Hydrelio® product line is composed of 3 products adapted and designed in accordance with regions' and markets' specificities.

Developed in 2010 and largely deployed across **30 countries**, Hydrelio[®] technology is continuously optimized thanks to R&D efforts and manufactured as per a strict quality process in any country.

Lab-tested and field-proven worldwide, Hydrelio® is recognized as the 'standard' in the floating PV industry, and has successfully demonstrated its **durability and bankability**.

THE HYDRELIO® CONCEPT: 'SOLAR, ON WATER'

Blow-molded HDPE floats supporting PV modules, and assembled together to form a floating PV platform.

RELIABLE, STRAIGHTFORWARD, ECO-FRIENDLY.

PROJECTS OVERVIEW



in total

690+

MWp



England | 6,338 kWp



Japan | 2,313 kWp



China | 32,686 kWp





South Korea | 495 kWp



Netherlands | 1,845 kWp



USA | 4,403 kWp



Taiwan | 4,023 kWp



Cambodia | 2,835 kWp



India | 450 kWp



Brazil | 1,004 kWp

IPP PROJECTS

(INDEPENDANT POWER PRODUCER)

40 Floating Plants Equivalent to **50+ MWp**

70+ Million Euros Invested

COLLABORATIONS& PARTNERSHIPS

At Ciel & Terre®, we aim to **deliver high quality services to our customers**, by investing in R&D to improve our system and recruting experts of the solar market. Our team — mainly composed of **engineers and business developers** — counts 150 collaborators worldwide and will accompany you throughout the development of your floating PV projects.

We are proud to develop our activity all over the world, setting up partnerships based on **trust, transparency and mutual willingness** to share best practices, knowledge and experiences.





UR MOTTO

PROXIMITY, QUALITY, INNOVATION.



Since 2015, we have integrated the Japanese company **TCC (Tokyo Century Corporation)** as a valuable shareholder. With 50 years of experience, TCC ranks among the **world's largest institutional investors** by managing billions of dollars of assets, positioning solar energy as a key target for its bankability and sustainability.



Noria Invest is a French family fund building a portfolio of minority **investments in small and medium size companies** in the Ecological Transition sector.



Cap3RI is a **public-private venture** focusing on Northern France companies dedicated to Responsible Business.



BPI is a **Public Investment Bank**, who has been a long-term partner for Ciel et Terre since the early years as a lender.



Itochu Corporation is a **Japanese trading company**, which is international and multisectoral. It is a shareholder of TCC.

WORLDWIDEPRESENCE



Founded in France, Ciel & Terre® has been expanding since its creation and continuously entering new markets. We provide our floating solar solutions all over the world through our subsidiaries and partners.

15+

AGENTS & DISTRIBUTORS

EMEA

Portugal Belgium Netherlands Spain Italy

Israel South Africa Angola

Turkey

ASIA

Indonesia Philippines Vietnam Cambodia Laos Myanmar

Sri Lanka

Bandaglesh

OTHER

Australia
Chile
Colombia
Peru

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Local Offices

Agents & Distributors