



PRESS KIT, SEPTEMBER 2026

Solar forecasts empowered by on-site data

CalibSun delivers high-precision solar forecasts to independent power producers, utilities and traders, so they can bid with confidence, cut imbalance costs and run their plants on what the sky is actually doing.

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The company

CalibSun is a French deeptech company that forecasts the electrical output of photovoltaic plants. Satellite imagery and numerical weather prediction alone cannot reach ground-truth accuracy. CalibSun closes that gap by building its models around real-time data measured on the plant itself, sky imagers, irradiance sensors and the plant's own production history.

The company was spun off in 2023 from Solais, founded in 2008, and carries 18 years of photovoltaic engineering into its models. Solais and CalibSun have carried out research for more than 15 years with the O.I.E. laboratory, Observation, Impacts, Energy, at Mines Paris, PSL, a key contributor to Task 16 of the IEA PVPS programme. CalibSun is also a member of the SciDoSol chair at Mines Paris, PSL, dedicated to data science applied to solar energy. The company is based in Sophia Antipolis, France, and serves plants across Europe, India, Africa, South America and the Middle East.

Boilerplate

SHORT, 25 WORDS

CalibSun forecasts solar power production from on-site data, helping producers, utilities and traders bid accurately and cut imbalance costs.

MEDIUM, 60 WORDS

CalibSun is a French deeptech company specialising in solar production forecasting. Unlike providers that rely on satellite imagery alone, CalibSun builds its models around real-time data measured on the plant, from one minute ahead to one week ahead. In an independent 2026 European benchmark it cut forecast error by 33 percent at 15 minutes and 46 percent at 5 minutes against the incumbent provider.

LONG, 110 WORDS

CalibSun is a French deeptech company that forecasts photovoltaic production for independent power producers, utilities and energy traders. Spun off in 2023 from Solais, founded in 2008, it brings 18 years of photovoltaic engineering to a field usually approached from meteorology alone. Its three services cover every operational horizon: INSTANT for one-minute nowcasting from sky imagers and on-site sensors, NEXT for intraday and day-ahead forecasts, and FUTURE for bankable solar resource assessment. In an independent 2026 European benchmark CalibSun cut forecast error by 33 percent at 15 minutes, the settlement horizon on most markets, and by 46 percent at 5 minutes, against the incumbent provider. CalibSun forecasts Khavda, in Gujarat, India, the largest photovoltaic plant in the world.



On-site sensing is what separates a measured forecast from a modelled guess.

Three services, one continuous horizon

Product names are never translated. INSTANT, NEXT and FUTURE cover the full operational timeline of a photovoltaic asset, from the next minute to the next thirty years.

INSTANT Nowcasting

Forecasts from one minute ahead, produced by a network of sky imagers and irradiance sensors installed on the plant. It sees a cloud approaching up to 30 km away, which at an average cloud speed of 60 km per hour means roughly 30 minutes of warning before solar output falls. Used to pilot storage, gensets and ramp-rate compliance.

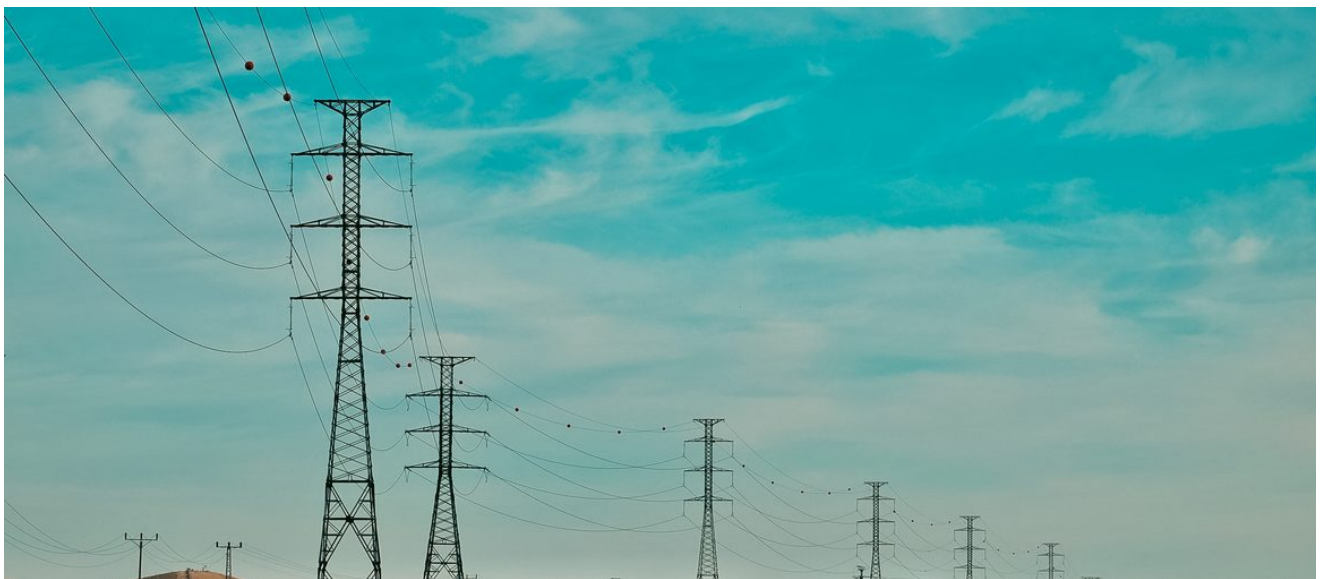
NEXT Intraday and day-ahead forecasting

Deterministic and probabilistic forecasts that combine the plant's live measurements with numerical weather prediction models and satellite imagery. NEXT is an analogue model at its core, reinforced by machine learning on the plant's own data. Its learning curve is markedly faster than pure AI models, about six weeks against three months minimum for other approaches.

FUTURE Solar resource assessment

A bankable typical meteorological year built over 20 to 30 years, down to five-minute resolution, calibrated with one year of on-site measurement. FUTURE is distinct from Long Term Assessment, which forecasts the coming 18 months for budgeting.

CalibSun does forecasting. It is not a monitoring or performance diagnosis provider. Every angle it serves faces forward: dispatch, bidding, imbalance, maintenance scheduling and storage under uncertainty.



From the next minute to the next thirty years.

The numbers

Every figure below is sourced. CalibSun does not publish claims it cannot substantiate on request.

46%

lower forecast error at 5 minutes, against the incumbent provider, independent 2026 European benchmark

33%

lower forecast error at 15 minutes, the settlement horizon on most European markets

18%

reduction in imbalance penalties observed on operating portfolios

500k\$

net value released per GW per year, order of magnitude

1st/7

ranking in a competitive benchmark run by a major German IPP across thirty plants

18 yrs

of photovoltaic engineering, Solais founded 2008, CalibSun spun off 2023

The reference, Khavda, Gujarat, India

CalibSun forecasts Khavda, the largest photovoltaic plant in the world, operated by its client Adani Green Energy. Installed capacity figures are not disclosed in this document.

Named reference, Loulo, Mali

Public since Barrick's 2022 communication. In its first phase, 24 MWp of trackers were added to a 65 MW heavy fuel oil and diesel grid in 2020, with no battery at all, avoiding 15.6 million litres of fuel. Accurate short-term forecasting is what makes that possible: on this site, 15 minutes of warning is enough to start a genset.



Khavda, Gujarat, India. Photo: Adani Green Energy Limited (AGEL).

Milestones

The last twelve months, in order.

SEPTEMBER 2025

Top 10 worldwide

CalibSun is named among the ten energy startups to watch by StartUs Insights, which screened 1,057 companies. It is the only French company in the ranking. Covered in France by Tecsol on 1 October.

NOVEMBER 2025

France 2030 Export laureate

Selection for the France 2030 Export acceleration programme, opening access to the Business France network and to French embassies for international expansion.

17 FEBRUARY 2026

India, French presidential delegation

Nicolas Thévenin takes part in the opening ceremony of the India-France Year of Innovation 2026 in Mumbai, and in the Indo-French CEOs Forum in New Delhi.

9 MARCH 2026

GridBeyond selects NEXT

GridBeyond chooses CalibSun as its solar forecasting provider for intraday trading on a 48 MWp photovoltaic plant in England.

4 MAY 2026

Grow Global Booster 2026

CalibSun opens the presentation of the Business France Green Shift North America delegation for the 2026 cohort.

JUNE 2026

Houston, French American Energy Networking

CalibSun pitches in front of more than 80 energy industry leaders at the Résidence de France in Houston, hosted by the Consulate General of France and Business France Green Shift North America.



Photovoltaic plant in a monsoon climate, where nowcasting earns its keep.

Coverage and recognition

STARTUS INSIGHTS

10 Top Energy Startups and Companies to Watch in 2026

Global ranking drawn from a screening of 1,057 energy startups. CalibSun is described as AI-powered solar forecasting combining numerical weather prediction, satellite imagery and on-site sensor data, from 15 minutes to one week ahead.

startus-insights.com/innovators-guide/energy-startups-and-companies/

TECSOL QUOTIDIEN

CalibSun classée dans le top 10 mondial des start-ups de l'énergie

French coverage of the StartUs Insights ranking, noting that CalibSun is the only French company selected, and presenting the three services INSTANT, NEXT and FUTURE.

tecsol-quotidien.fr

THE VENTURE NETWORK

Top 10 most innovative startups worldwide for the energy transition

Global benchmark citing CalibSun, Sophia Antipolis, France, for solar forecasting combining satellite imagery and sensors.

Announced on the CalibSun LinkedIn page

Clients and partners

As published on www.calibsun.com: Adani, Amarengo, CVE, Africa Power Services, Barrick, Corsica Sol, GridBeyond, TSE.



Battery storage, dispatched against a forecast.

Named in the world top 10

StartUs Insights screened 1,057 energy startups worldwide and retained ten. CalibSun is the only French company in the ranking, and the only one working on solar forecasting from on-site data.



Source: StartUs Insights, Top Energy Startups to Watch. Reproduced for editorial reference.

People

Titles as published on www.calibsun.com.

Nicolas Thévenin

Co-Founder and Chief Executive Officer

Also Co-Founder and Managing Director of Solais and a board member of TSE. He represents CalibSun in international delegations and leads the company's commercial development.

Alexandre Boilley

Geoscience data expert, data scientist

PhD in numerical modelling of fine scale wind hazards at the Météo France research centre, CNRM Toulouse, then a post-doctoral project at Mines Paris, PSL on wind resource assessment. Ten years working on solar forecasting.

Thomas Carrière

Research engineer, since 2016

PhD in applied machine learning for power systems at PSL University. Designed the solar power forecasting algorithms in use at CalibSun. Published in journals including IEEE Transactions on Smart Grid.

Loïc Yezeguelian

Innovation and Product Lead

Engineering degree from Mines Paris, PSL, specialising in geostatistics and applied mathematics. Previously worked on hybrid photovoltaic and battery storage sizing, and on the solar resource assessment offering that became FUTURE.

Florian Ghionda

Data Scientist

Engineering degree from ISAE-Supaero, environmental impact studies at the University of La Plata. Runs the operational data pipelines for the MSG, MTG, GOES, Himawari and INSAT satellite constellations, and develops the NEXT algorithm.



Island photovoltaic plant, a typical hybrid and off-grid configuration.

Brand guidelines

The CalibSun identity rests on one logotype, three colours and two typefaces. Everything shown here is taken from the official brand guidelines, supplied in full in the logo pack.



Navy on light backgrounds



White on navy



White on the orange gradient

Colours



Navy

#292D64

RGB 41 45 100

CMYK 100 95 30 14

Logotype, headings, dark panels



Orange

#E96030

RGB 233 93 48

CMYK 2 73 84 0

SUN, accents, calls to action



Amber

#F08F33

RGB 240 143 51

CMYK 2 52 85 0

End of the gradient in the A of the logo

Clear space

Keep a clear space around the logo at least equal to the height of the letter C, on all four sides. No text, image or other logo enters this zone.



Dashed line: minimum clear space, one C height on every side



The identity in use: navy panels, orange accents, photography with a plain area for the logo.

Brand guidelines

Typefaces

HEADINGS

Archivo

Light to Bold, with italics. Google Fonts. Used semi-bold for titles and figures.

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 0123456789

BODY TEXT

Inter

Light to Bold, with italics. Google Fonts. Used regular for running text, medium for labels.

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 0123456789

What not to do

The logo is a fixed asset. It is never redrawn, and it is never adapted to a layout: the layout adapts to it.

Do not distort. No stretching, condensing or free resizing. Keep the proportions of the file.

Do not rotate. The logo sits horizontal, always.

Do not recolour. Navy and orange, or white and orange on dark grounds. No other combination, no outline, no shadow.

Do not touch the baseline. In situ Veritas is part of the logo. It is not translated, moved or replaced.

Do not crowd it. Nothing enters the clear space, and the logo never sits on a busy photograph or a map.

Do not add to it. No pictogram, no tagline, no partner logo attached to the logotype.

Do not retype it. The wordmark is a drawing, not a font. Never set CalibSun in Archivo or Inter to imitate it.

The full brand guidelines, the vector logos and print-quality PNG files are supplied in the logo pack, cleared for editorial use alongside coverage of CalibSun.

Download the logo pack www.calibsun.com/newspapers/#kits



Photography in the CalibSun media library is cleared for editorial use.

Facts and assets

At a glance

Legal name	CalibSun
Founded	2023, spun off from Solais, founded 2008
Headquarters	Sophia Antipolis, France
Sector	Solar production forecasting, deeptech
Services	INSTANT, NEXT, FUTURE
Customers	Independent power producers, utilities, energy traders, mining and off-grid operators
Research	O.I.E. laboratory at Mines Paris, PSL, member of the SciDoSol chair, Task 16 of the IEA PVPS
Markets	Europe, India, Africa, South America, Middle East
Website	www.calibsun.com , also available in French, Spanish, Portuguese and Chinese
Press page	www.calibsun.com/newspapers/

Using the brand

Colours	Navy 292D64, orange E96030 and amber F08F33 for the gradient in the logo. There is no secondary blue in the identity.
Typefaces	Archivo SemiBold for headings, Inter for body text. Both on Google Fonts.
Logos	Navy on light backgrounds, white on dark ones. Never redrawn, recoloured, rotated or distorted. See pages 9 and 10.
Product names	INSTANT, NEXT and FUTURE are never translated.
Photography	Illustrative images from the CalibSun media library, cleared for editorial use alongside coverage of CalibSun.
Downloads	Logo pack: vector and print-quality logos, brand guidelines, README Press page: kit, logos, coverage and contact Both links are live in this PDF. The zip is 3 MB.

PRESS CONTACT

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Interviews with the CEO: Nicolas Thévenin, nicolas.thevenin@calibsun.com

