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EDITORIAL

Carole DELGA

Chairwoman of Occitanie / Pyrénées Méditerranée Regional Authority



The climate crisis is in evidence today, and which is becoming more acute with each passing year, is prompting us to accelerate our transformation towards a new energy model: one that is resilient, sustainable and contributes significantly to our sovereignty. This is the whole purpose of the trajectory taken by the Occitanie Regional Authority to make our region the first positive-energy region in Europe.

The method: ecological planning based on sobriety and the production of renewable energies, which makes this transformation everyone's business. Citizens, local authorities and businesses are all key partners in this 2050 strategy.

Beyond the ambitions, Occitanie can already point to concrete results, with the constant aim and need to reinforce our energy sovereignty. I have therefore chosen to develop renewable energies, in particular green hydrogen and floating offshore wind power. Our region is now at the forefront of these two sectors. Over and above this, we are also lending our support to community-led renewable energy production projects, the roll-out of 5,000 new electric charging points, and helping businesses to transform their industrial facilities.

In recent years, EnerGaïa has become a key European event where industry professionals, local players and the general public can come together to tackle new national and international environmental challenges, and above all share success stories and practical solutions. This is why the Region is its premier partner and is delighted to be hosting the event in Montpellier.

I urge all economic and non-governmental players, industrial firms and businesses to come and join us at this unique exhibition. The energy transition is a reality that we all need to embrace. EnerGaïa is one of the ways we have at our disposal to do exactly that, right now.

Carole DELGA

Chairwoman of Occitanie / Pyrénées Méditerranée Regional Authority



ENERGAÏA 2024: THE ONLY TRADE EVENT DEDICATED TO ALL RENEWABLE ENERGY SOURCES

Building on the success of the 2023 edition, which confirmed Forum EnerGaïa's role as a key trade event promoting a low-carbon and more sustainable economy, we are heading into this 18th edition with enthusiasm and determination.

Energy sectors are undergoing a revolution, in view of the climate challenge and the energy transition. Boosted by European commitments and environmental regulations, they must also adapt to uncertain contexts. Today, more than ever, energy efficiency and innovation lie at the heart of the path we need to follow to optimise and manage energy responsibly.

In line with these challenges, the 18th edition of Forum EnerGaïa will fully play its role as a facilitator and business crossroads for the entire value chain of the renewable energy sectors: production, distribution, installation, services... All the solutions and technologies are represented, enabling developers and decision-makers from both public and private sectors to find tangible, cross-disciplinary solutions for the deployment of their projects.

Because innovation is the driving force behind change and provides answers to major climate challenges, the Forum has also decided to innovate with the launch of the Innovation Awards. The winners will be announced at an awards ceremony to be held at the show on 12 December, following live pitches delivered before the jury and visitors.

I would like to thank the exhibiting companies for their commitment and continued confidence in Forum EnerGaïa. I would also like to thank all the Forum's partners, whose support is essential to the success of this event. I also wish to pay tribute to the teams who work diligently throughout the year to deliver an exhibition that lives up to your expectations and to the challenges we face together!

Enjoy your visit at EnerGaïa 2024 !

Marie-Thérèse Mercier

CEO of SPL Occitanie Events, Occitanie / Pyrénées Méditerranée Regional Councillor

The positive energy Region

- ▶ **2.2 billion euros** invested in the energy transition between 2016 and 2030
- ▶ **46.3% of the region's total consumption** is covered by renewable electricity production (source: RTE renewable energy panorama).
- ▶ **2nd region** for installed photovoltaic capacity
- ▶ **2nd region** region for installed hydroelectric capacity

1. THE OCCITANIA REGION, A PIONEER IN THE ENERGIES OF THE FUTURE

Floating offshore wind power, a pillar of the regional renewable energy mix

With the aim of becoming Europe's leading positive energy region, the Region intends to make floating offshore wind power one of the main pillars of its future renewable energy mix: **40% of its wind energy targets will be met by floating offshore wind power.**



▶ Photomontage of the floating offshore wind turbine project in the port of Port-La Nouvelle - © SEMOP Port-La Nouvelle

The aim is to build up a true strike force capable of increasing the region's energy independence, with the installation of commercial wind farms totalling 800 megawatts of power by 2030.

France has indicated its ambition of deploying 45 GW of offshore wind power by 2050. The planning of offshore wind power development by seaboard will help to maintain the momentum already underway, and support reindustrialisation and the carbon transition of the country.

On the Mediterranean seaboard, the Occitanie region is pursuing an ambitious and global offshore wind strategy ranging from programming and planning to investment in the energy transition port at Port-La Nouvelle and the development of an economic and academic ecosystem around the Wind'Occ movement. **All these areas of work have made Occitanie a leading region for offshore wind power in France for many years.**

The investments already made and ongoing for the development of port infrastructure have positioned Port-la Nouvelle as the energy transition port of the Mediterranean. **In total, €420 million have been invested by the Regional authority and SEMOP for this new infrastructure.**

FLOATING OFFSHORE WIND POWER IN OCCITANIE IN A FEW FIGURES:

- ▶ **2 pilot farms** off Gruissan and Leucate/Barcarès in 2025 with a capacity of 60 MW (equivalent to the consumption of a town the size of Narbonne);
- ▶ Developed capacity of **800 MW by 2030** (approximately the capacity of a nuclear power station reactor);
- ▶ **€420 million invested** to make **Port-la Nouvelle** the home port for floating offshore wind power and the energy transition in the Mediterranean;
- ▶ A Wind Occ dynamic that structures the sector in the region, with **over 200 companies**, 25 academic institutions and regional laboratories, capable of meeting the needs of offshore wind power.

H₂ Green hydrogen: the Region steps up a gear

With €150 million committed over the period 2019-2030, Occitania is already ahead of the game in the development of renewable hydrogen. An integrated vision of the sector, from production to distribution and uses, will accelerate the large-scale deployment of hydrogen solutions and guarantee the region's leadership at both national and European level.

The Green Hydrogen Plan is already taking shape with:

- ▶ In 2025, the commissioning of the **Hyd'Occ** large-scale renewable hydrogen production site in **Port-la-Nouvelle**, with a production capacity that will reach 16 t/day in phase 2, thanks to 8 electrolyzers producing a total of 18.6 MW from 2024;
- ▶ In 2024, the testing of 15 retrofitted hydrogen coaches (whose diesel engine is replaced by an electric motor powered by a hydrogen fuel cell), developed by the Tarn-based company SAFRA;
- ▶ At the end of 2025, the procurement and commissioning of **three hydrogen-powered train sets**;
- ▶ By the end of 2024, the construction of 20 hydrogen refuelling stations;
- ▶ By 2030: the construction of 2 massive **green hydrogen production plants**, **55 fuel stations**, and support for the acquisition of **3,250 hydrogen-powered vehicles**.

Focus on the inauguration of two major new renewable hydrogen projects:

The laying of the first stone of the Franczal Occitanie Technocampus in the coming weeks: 15,000 sqm have been set aside for Europe's largest research, testing and technological innovation centre dedicated to green hydrogen. The technocampus is the result of a partnership with the Occitanie Regional authority, CNRS, University of Toulouse, ONERA, research laboratories, and leading businesses such as Safran, Airbus, Liebherr and Vitesco Technologies.

The Lhyfe project at Bessières, which was commissioned in the summer of 2024. Co-sponsored by AREC and Lhyfe, this production unit, capable of producing **2 tonnes of hydrogen per day (giving it a production capacity of 5 MW)**, will help to decarbonise goods and passenger transport in the Occitania region as part of the major European project Corridor H2 for which the Occitania region has been selected (including 7 fuel stations, 40 hydrogen fuel cell trucks, 62 refrigerated vehicles and 15 LiO coaches).



▶ Europe's 1st renewable hydrogen production and distribution station in the airport zone - © Léo Arcangeli - Région Occitanie

2. SUPPORTING HOUSING AND THE HABITAT IN THE FACE OF THE SOCIAL AND CLIMATE EMERGENCY

After deploying the first phase of its Sustainable Habitat Plan through a €150 million envelope, the Occitanie regional authority is now working on the construction of phase II to address a housing crisis that is becoming chronic. In this perspective, six months of consultations were organised to meet with economic, social and environmental organisations and residents, and trigger proposals of benefit to everybody. Following the events and meetings set up by the authority, all the stakeholders put forward tangible proposals in their own specific areas.

The aim of this phase II of the Sustainable Habitat Plan is to deploy resource efficient renovation and construction processes based on materials saving and the use of collective hindsight. This represents a historic change in the design of the habitat: adaptation to climate change, the use of new materials such as eco-based wood, training for architects, training of construction professionals in the use of eco-materials, circular economy.

Phase I of the Sustainable Habitat Plan, which was adopted in December last year, already aimed to deliver a territorial rebalance, an increase in the supply of social housing, support to municipalities in the area of engineering, and assistance to building professions both in the use of eco-materials and in quality architecture, in liaison with the Order of Architects, or training. Following on from the previous contracts, the Regional authority also supports the building sector in its ecological transformation through a sector-specific contract signed last year with the French Building Federation (FFB) and the Occitanie Confederation of Building Trades and Small Businesses (CAPEB), which will run until 2027.

Habitat and Housing – what's the difference?

The concept of habitat differs from that of housing though its broader vision, not restricted to the purely physical area of a building or a house. Habitat encompasses everything from the living environment to the natural environment and the way the housing is organised. Habitat that is qualified as sustainable meanwhile fulfils social and environmental requirements such as access to housing tailored to the various economic and social situations of the inhabitants, and building energy efficiency.

It is with these principles in mind that the regional Sustainable Habitat Plan covers the entirety of the chain, from planning to construction, and from production to the sense of community.



➤ Eco-community in Verfeil-sur-Seye (82). © Sébastien Pouchard – Région Occitanie

3. THE CITIZEN REGION

Supporting community-led renewable energy and combating fuel poverty

In Occitania, 9,500 citizens are now taking part in the region's energy transition via citizens' cooperatives by setting up local renewable energy projects. Supported by the Occitania Regional Authority and ADEME since 2014, these projects provide local democratic leverage to achieve the Positive Energy Region targets that Occitania has set itself.

KEY FIGURES:

- ▶ **9,500 citizens** in local cooperatives in Occitania
- ▶ **59 gigawatt hours/year produced** by these community projects (equivalent to the annual consumption of nearly 26,000 people in Occitania, excluding heating)
- ▶ **230 installations**, from solar PV roofs to a 6-turbine wind farm
- ▶ **100,000 people made aware** of energy transition issues
- ▶ **165 local authorities** involved
- ▶ **€10 million of savings** mobilised



▶ Citizen photovoltaic power plant at the Héraclès winery in Codognan (30)
©ACCTE

Fighting fuel poverty

In Occitania, 14% of households are affected by fuel poverty in housing (Source: Terristory/GEODIP, 2018). On 17 June 2024, the Énergie Solidaire Occitanie programme, initiated by the Énergie Solidaire endowment fund and supported by the Occitanie Regional authority, launched its second call for projects with an envelope of €150,000 on offer for local associations. The aim: fund grassroots players who offer appropriate, multi-disciplinary support to vulnerable households over the long term.

The winners will be announced Thursday 12 December 2024 at 4pm on the Région-AREC-ADOCC stand, by Agnès Langevine, Vice-President Climate of the Occitanie Regional Authority.

New: EnerGaïa 2024, a charitable edition!

This year, Forum EnerGaïa is contributing to the fight against fuel poverty by joining forces with the Regional Authority to support a major Charity Challenge (Challenge Solidaire) in aid of Energie Solidaire. Exhibitors, partners and visitors are invited to mobilise to raise funds in aid of the fight against fuel poverty. Meet Énergie Solidaire and discover the fundraising thermometer on the Région-AREC-ADOCC stand (Hall B2, D67).

This challenge aims to mobilise businesses around a shared goal: help people who have neither the means nor the ability to renovate their dwelling

The funds collected will be donated in their entirety to the regional "Énergie Solidaire Occitanie" programme launched in 2023 with the support of the Occitanie Regional authority, which aims to improve the living conditions of low- and very-low income households while contributing to the local energy transition.

For more information on the EnerGaïa 2024 Challenge Solidaire: [click here](#)

Full details of the special events happening on the Region-AREC and AD'OCC stand : Hall B2 Stand D67 and scan the following QR CODE



ENERGAÏA FORUM KEY FIGURES

ENERGAÏA, the unavoidable trade show
for the players and solutions of a world in transition

 **500**
exhibitors expected

23%
exhibitors from
outside France

 **47** visiting countries
in 2023
(Top 3: Spain, China, Germany)

18,000
professionals expected

 **100+**
talks, round tables
and pitches

 **130** expert
speakers

 **Innovation
Awards**

 **700+**
business meetings
confirmed in 2023

1
event sponsored by
Occitanie Regional
Authority



12
expert industry
partners



24,000 sqm
exhibition space
(+3,500 sqm vs 2023)

5
halls



2
business meeting
spaces

3 theme pavilions
pavilions (Sustainable Buildings,
Employment-Training, Solar Heat)

 **1** Innovation
Gallery

> 11 nominees
> 5 winners



ISSUES ADDRESSED BY FORUM ENERGAÏA 2024

1. Renewable energy deployment and energy efficiency
2. Employment and training
3. Sustainable cities and buildings
4. Supporting communities in the transition

1. RENEWABLE ENERGY DEPLOYMENT AND ENERGY EFFICIENCY

France's commitments in response to the urgency of the energy transition place the issues of energy saving and the mass deployment of renewable energies at the heart of public policy. By 2030, the objectives are to:

- ▶ reduce greenhouse gas emissions by 40%;
- ▶ achieve a 33% share of renewable energies in gross final energy consumption (currently 15%);
- ▶ significantly increase the share of renewable energies by use - heat, fuel, electricity.

With an ambitious goal for 2050: achieve carbon neutrality

To accelerate the decarbonisation of energy production/consumption in France and increase the proportion of electricity in final energy consumption, five major levers have been established:

- ▶ electrification, particularly for sectors such as industry and transport ;
- ▶ the development of renewable energies;
- ▶ control of energy consumption and energy efficiency;
- ▶ decarbonising fossil fuels, in particular by capturing and storing carbon dioxide (CO₂);
- ▶ identifying talent and developing skills to 'decarbonise' energies.

To achieve these goals, renewable energies will have to play a decisive role.

All the different market verticals associated with decarbonisation: solar energy, onshore and offshore wind power, geothermal energy, green hydrogen, bioenergy (biomass, biogas, wood energy), energy storage and electrification, are represented at Forum EnerGaïa. These renewable energies can be used in a variety of applications. Their main uses include applications in the industrial, residential, building, transport and mobility, and agricultural sectors, all of which will be covered by the exhibition over its two day duration.

(1) Source BPI France

(2) Source ADEME, 2024

DECARBONISATION MARKET VERTICALS

to be discovered at Forum EnerGaïa



BIOGAS

As Europe's leading producer of biogas (also known as 'green gas'), with a capacity of 10.5 TWh in 2023, France has set itself the target of increasing production of this renewable energy from biomass by a factor of 5 by 2030. This solution will both increase the proportion of renewable energy in the gas network and speed up biofuel roll-out and green electricity generation. The implementation at the end of 2023 of a requirement for consumers to sort bio-waste and for local authorities to offer bio-waste management and recovery solutions also opens up serious prospects for the development of the sector in France, with a number of issues at play: structural collaboration between local and regional players, and complementarity with farm biodigesters.

In Occitanie ⁽¹⁾

The Region aims to produce 9,400 GWh of biogas in 2050



GEOTHERMAL

More than 85% of the French mainland has the potential for surface or deep geothermal energy: a clean, local, stable and reliable form of energy. Although still relatively untapped in France, geothermal energy is proving to be a real asset in improving the energy efficiency of buildings, particularly in urban environments, by supporting local resilience. In February 2023, the government presented a plan to accelerate the development of geothermal energy, with the aim of increasing the number of deep geothermal installations by 40% between now and 2030, while doubling the number of heat pumps installed in private homes by 2025. The plan focuses on six key issues: giving structure to the sector, developing training programmes, providing support to project developers, raising awareness among local players, simplifying regulations and improving knowledge of the subsol.

In Occitanie ⁽²⁾

**114 projects financed since 2020
25 million euros invested**

SOLAR HEAT

Still little-known and underused in France, solar thermal energy accounts for just 1% of total renewable heat production in France, or 1.3 TWh. However, it is a local renewable energy source that is available everywhere, is efficient and can supply a significant proportion of the country's heating and domestic hot water needs, particularly for collective and tertiary buildings and industry. France has set itself the target of increasing solar thermal energy production by a factor of eight by 2035. In this perspective, addressing the challenges inherent in developing the sector is a key part of the transition.

NEW IN 2024

Solar Heat Pavilion

ORGANISED BY ENERPLAN, THE RENEWABLE SOLAR POWER TRADE ASSOCIATION

For the very first time, Forum EnerGaïa is hosting a pavilion dedicated to the issues raised by solar heat.

Sharing the same challenges as the decarbonisation of the building sector in the broadest sense, the Solar Heat pavilion is located immediately adjacent to the Sustainable Building pavilion, to facilitate the visitor journey and help them find tangible, cross-disciplinary solutions between the key players and exhibitors in these sectors.

In September 2024, Enerplan and the French Association of Geothermal Energy Professionals (AFPG) signed a joint roadmap to support the deployment of coupling solutions combining solar thermal and geothermal energy.

Visit the Solar Heat Pavilion with Enerplan, and the Sustainable Building Pavilion with AFPG, both in Hall B1.

WIND

Accounting for 10.3% of electricity production in 2023, onshore and offshore wind power is growing fast and is the second largest renewable vertical in the French electricity mix. While onshore wind power, with a total capacity of almost 21 GW, is currently the most widespread in France, government authorities are banking on the mass deployment of offshore wind farms, which have the advantage of higher production capacity and less impact on the landscape. The offshore sector is now at a watershed moment: it aims to reach a capacity of 18 GW by 2035, and 40 GW by 2050, with 50 wind farms in service in France. Major challenges lie ahead: maritime planning, investment in ports, competition from Asia, rising commodity prices and interest rates, etc.

In Occitanie ⁽³⁾

Onshore wind power:

- › 3rd biggest producing region in France
- › Target: 3.6 GW installed power in 2030, 5.5 GW in 2050

Floating offshore wind power:

- › Golfe du Lion; the number 1 offshore wind resource in France
- › Target: 3 GW installed power in 2050

GREEN HYDROGEN

In the wake of the health crisis, the government has made the development of green hydrogen a priority in its France Relance and France 2030 plans, with the aim of making France a leader in the sector in Europe. An essential alternative to fossil fuels for decarbonising industry, the development of green hydrogen also opens up serious prospects for decarbonising transport in general, and everyday mobility in particular. Two major challenges are emerging: the construction of comprehensive ecosystems for the research, production and distribution of low-carbon hydrogen at the heart of communities, and the deployment of public-private partnerships.

In Occitanie ⁽⁴⁾

€150 million invested up to 2030 in the Occitanie Green Hydrogen Plan for the deployment of 55 fuelling stations

(3) Source ADEME, 2024

(4) 2023 electricity report, RTE

ISSUES ADDRESSED BY FORUM ENERGIA 2024



SOLAR PHOTOVOLTAIC

The deployment of solar energy accelerated significantly in 2023, benefiting from the fall in the price of solar panels, and it now accounts for 4.4% of total electricity production in France. The government's ambition is to increase solar energy production capacity by a factor of 5 by 2050, with 40% of photovoltaic installations being manufactured in France. At a time when the sector is bearing the full brunt of competition from Asia, reindustrialising solar energy in Europe is a real challenge, from technological and financial viewpoints.

In Occitanie ⁽⁵⁾

2nd region in France in terms of installed solar PV power

Target: 7 GW power in 2030 and 15 GW in 2050



500 exhibitors



3 theme pavilions:
Employment-Training,
Sustainable Buildings
and Solar Heat



2 partner pavilions:
Cemater and Pôle Derbi



**72 round tables,
pitches and exhibitor
conferences**

Full programme of talks,
round tables and pitches
on the Forum's website



FIGURES CORRECT AS AT NOVEMBER 18, 2024



(5) Source - Ad'Occ data, 2023

2. EMPLOYMENT AND TRAINING

For the third consecutive year, Forum EnerGaïa is organising a Pavilion dedicated to employment and training. The energy transition places recruitment and skill development at the heart of company strategies, and therefore at the heart of EnerGaïa's 2024 edition.

In its latest report produced in association with the consultants Accenture and the Caisse des Dépôts, the association Evolen estimated that there would be a need for 350,000 jobs in zero carbon energy in 2030, of which 200,000 new jobs. Of these 350,000 jobs:

- ▶ a third will be in hydrogen,
- ▶ another third in biofuel
- ▶ a sixth in wind power (onshore and offshore)
- ▶ and the other sixth in the decarbonisation of energies (electrification processes, CCUS)

The challenge is a sizeable one: train young people in new job disciplines, develop the skills of people already in jobs, increase the appeal of jobs in the energy transition, support professionals undergoing a career change, support the nationwide deployment of targeted training programmes that are still inadequate today.

To meet these major challenges, the exhibition is setting up a dedicated **Employment and Training pavilion in Hall B3 in association with France Travail Hérault and UIMM Occitanie.**

The issue of employment and training in the renewables professions will furthermore be covered in the opening round table on Wednesday 11 December from 10.30 am to 12.15 pm, on the theme: "Renewables energies: how to make the sector attractive to all audiences."

This round table will go into detail on the means to build awareness and efficiently train all audiences, including young people and career switchers. It will also present the strategies to implement to promote jobs in renewables and make them appealing, and encourage a wide diversity of profiles.



31 exhibitors



1 employment-Training pavilion



**13 training centres,
recruitment agencies**



5 colleges



1 opening round table

Full programme of talks,
round tables and pitches on the
Forum's website



FIGURES CORRECT AS AT NOVEMBER 18, 2024

HIGHLIGHTS

PROFESSIONS AREA - Hall B3

- › **Escape Game day, Wednesday 11 December**
organised by UIMM Occitanie, the trade association representing regional firms in the metallurgical industry. This original feature is aimed at job seekers and secondary school students to offer them a deep dive into the world of zero carbon energy.
- › **Job dating day, Thursday 12 December**
organised by France Travail Hérault, to set up interviews between recruiters and job seekers.

EXHIBITORS

EMPLOYMENT-TRAINING PAVILION - Hall B3

- › BTP CFA
- › Campus HEREC
- › SUP'ENR engineering school
- › Elatos
- › INSTANT SCIENCE - GENHYO
- › L'Étincelle
- › University of Toulouse – GENHYO
- › Volt Formation

3. SUSTAINABLE CITIES AND BUILDINGS

Cities, which today account for 70% of greenhouse gas (GHG) emissions, are in the front line when it comes to the challenge of net zero. To achieve this goal, renewable energies, encouraged by new European and international regulations, are an essential asset, saving available resources while generating little carbon dioxide.

These renewable energies should be combined with recovered energies (heat from wastewater, data centres, waste-to-energy plants, train braking energy, etc.), which will help move towards circular consumption patterns.

The aim of Forum EnerGaïa is to shed light on the issues involved and the ways in which renewable and recoverable energies can be implemented in urban areas, and the way in which they can be integrated into territorial deployment approaches and the fabric of the smart city.

The exhibition will also showcase technical solutions that contribute to meeting three key challenges:

- ▶ extending positive-energy buildings across new-build construction ;
- ▶ renovating the entire residential/tertiary building stock to low-energy building (BBC) standards;
- ▶ decarbonising buildings by drawing on the diversity of existing mature and efficient renewable energy production solutions in a view to phasing out fossil fuels.

These considerations are all the more essential to the transition since buildings have a development potential that is still largely untapped: roofs, basements, 'lost' heat or cooling (wastewater, data centres, computer centres, energy recovery from ventilation, etc.).

The Sustainable Buildings Pavilion will bring together 12 exhibitors (Hall B1) representing key links in the value chain: associations of renewable energy professionals, design consultancies, training and employment experts.

The issue of mobility will be addressed at this 18th edition of Forum EnerGaïa 2024. Personal mobility is seeing an acceleration in alternative solutions (electric, hybrid or hydrogen vehicles and associated refuelling infrastructures, cable transport, etc.) and multimodality. All of this relies heavily on new technologies (autonomous vehicles, intelligent junctions, travel, parking and carpooling apps, etc.). Similarly, goods transport in urban areas is experiencing significant change, with sustainable urban logistics, a last-mile strategy and the increased use of inland waterways.





200 exhibitors



25 mobility exhibitors



20 associations, clusters, public training bodies



2 theme pavilions:
Sustainable Buildings and Solar Heat



2 partner pavilions:
Cemater and Pôle Derbi



36 round tables, pitches and exhibitor conferences

Full programme of talks, round tables and pitches on the Forum's website



FIGURES CORRECT AS AT NOVEMBER 18, 2024

EXHIBITORS

SUSTAINABLE BUILDINGS PAVILION - Hall B1

- › AFPG French association of geothermal energy professionals
- › AMTC
- › Antea Groupe
- › CAPEB
- › CMA
- › Celsius Energy
- › Coturnix
- › Expectra
- › Future Pipe Industries
- › Kolverr
- › SerenySun
- › Teamber



4. SUPPORTING COMMUNITIES IN THE TRANSITION

Back in 2014, the conclusions of the 5th IPCC report revealed that 50 to 70% of the levers for action to combat global warming should be found at local level. Ten years on, the effects of climate disruption are visible everywhere in our communities, and local politicians are in the front line in facing up to these difficulties.

Indeed, the actions they must take are difficult to implement and multifaceted. Questions around 'how' to approach the issues arise constantly: how do we identify the vulnerabilities that need to be tackled as a priority? How can we identify, launch or accelerate projects that benefit the environment? How can we reconcile day-to-day priorities and social needs with long-term issues?

Furthermore, achieving local transition goals will come at significant cost. According to a report by the Inspectorate General of Finance in June 2024, the cost of the ecological transition for local authorities will amount to €21 billion a year by 2030.

Nevertheless, there are many examples of local success stories and good practice, such as the Occitanie regional authority, which has been supporting local community initiatives to produce renewable energy since 2014, and which is aiming to become Europe's first positive energy region by 2050.

By bringing together a broad ecosystem of stakeholders in the transition of local and regional authorities - local decision-makers, local authorities, public and private sector operators, professional organisations, associations and clusters - Forum EnerGaïa aims to foster discussion on the solutions of the future to better support the various levels of local and regional authorities as they move towards decarbonisation and energy efficiency. This will be achieved by focusing on the major issues they face every day:

- ▶ Working towards a systemic approach, from diagnosis to the implementation of practical solutions
- ▶ Effectively organising the operational translation of projects with the right skills
- ▶ Strengthening ties between public and private players
- ▶ Training public officials and civil servants
- ▶ Understanding financing structures and legal issues.

This theme will be at the centre of **the round table organised on Wednesday 11 December at 2.00 pm entitled "How to support local authorities in their renewable energy development projects"**.

It will also be addressed in a cross-disciplinary manner during pitches and round tables held throughout the two days of the show. The Forum's vocational partners and the public and private sector players in attendance will illustrate this issue through tangible projects implemented in the heart of communities and returns on experience.



1 Occitanie regional authority stand



12 institutional partners



16 associations, clusters, public training organisations in attendance



29 round tables, pitches and exhibitor conferences

Full programme of talks, round tables and pitches on the Forum's website



FIGURES CORRECT AS AT NOVEMBER 18, 2024

NEW IN 2024: LAUNCH OF THE INNOVATION AWARDS



Because innovation is a driver of change, Forum EnerGaïa wishes to shine a light on the innovations and technical breakthroughs of its exhibitors in response to the big energy transition challenges of today and tomorrow.

This year, the show is launching the first edition of its Innovation Awards (Trophées de l'Innovation).

Four trophies will be awarded in four brand-new and cross-disciplinary categories:

- ▶ **International Award:** distinguishes a project or solution with high international development potential.
- ▶ **Deployability Award:** distinguishes a project offering easy and rapid deployment.
- ▶ **Ecosystem Award:** distinguishes a dynamic created with local stakeholders and/or market verticals.
- ▶ **Circularity Award:** distinguishes a project incorporating a circular economy aspect and/or leading to major progress in that area.

Following a shortlisting process led by a committee of experts, the 11 nominated innovations are showcased in a dedicated area, the Innovation Gallery, in the middle of the Forum (Hall B3).

The winners will be announced following live pitches delivered in front of the judges and visitors, at an awards ceremony held at the show on Thursday 12 December.

The Occitane / Pyrénées Méditerranée regional authority will also award its own "Coup de Coeur" (judges' pick) award to one of the 11 nominees.



MEMBERS OF THE SELECTION PANEL

- **Amel ABBASSI GUENDOUZ**
Innovation and energy transition sector manager, AD'OCC
- **Thierry BAIG**
Deputy Regional Director at ADEME Occitanie
- **Alexis BAUTZMANN**
CEO of Areion Group and Consilde Media Group, Chairman of the Scientific Committee at the Centre for the Analysis and Forecasting of International Risks (CAPRI), Doctor in Geographical science / Lecturer at Institut Polytechnique de Paris and the Sorbonne.
- **Isabelle GUICHARD**
Managing Director, Pôle Derbi
- **Émilie VIDAL**
Regional Director, East Occitanie, BPI
- **Raphaëlle VIENOT**
Deputy MD, AREC Occitanie
- **Caroline GIGNON**
Forum EnerGaïa Show Manager

MEMBERS OF THE JURY CONVENING AT FORUM ENERGAÏA

- **Pascale COURCELLE**
Director of Property, Energy, Environment Financing at BPI
- **Cécile CHAIGNEAU**
Journalist, La Tribune
- **André JOFFRE**
CEO of TECSOL and DERBI competitive cluster, Honorary Vice-Chairman of Enerplan, Founder and President of Qualit'EnR, Vice-Chairman Industry of Pyrénées-Orientales CCI
- **Ingrid NAPPI**
Économiste, Professeur à l'École nationale des Ponts et Chaussées. Titulaire de la Chaire Économie de la Transition écologique urbaine à l'Institut Louis Bachelier
- A representative of **Occitanie Regional Authority**

NEW IN 2024: LAUNCH OF THE INNOVATION AWARDS



THE NOMINEES FOR THE 1ST EDITION OF THE ENERGAÏA “TROPHEES DE L'INNOVATION” ARE:

International Award category

> CITEL for its DPVN range of surge protectors

With the DPVN range, Citel is launching a new generation of surge protectors to protect photovoltaic installations (inverters, solar panels) against transient grid surges and the effects of lightning strikes. Equipped with patented Central Thermal Control® technology, these compact surge protectors provide enhanced safety and a cut-off system to reduce the risk of short circuits. The range includes 1+2+3 and 2+3 models, suitable for voltages from 600 Vdc to 1500 Vdc. Combined Type 1+2+3 arresters have a total discharge capacity of 12.5 kA, while Types 2+3 reach 40 kA (Imax), exceeding the requirements of IEC 61643-32. They are suitable for residential and industrial installations, solar farms and isolated sites.



> FHE France for Inelio®

Inelio® technology represents a major breakthrough in the production of heating and cooling energy. Designed as a new-generation thermal battery compatible with all sources of renewable energy, it stores the energy produced for later use in heating, domestic hot water production and cooling. This innovation addresses the intermittent nature of thermal production and consumption at sites, offering a complete solution including air conditioning. The Inelio® energy cell stands out for its total autonomy, optimum safety and remote predictive maintenance. Inelio® uses solid-gas sorption technology to store energy in the form of chemical potential. Thanks to the use of an eco-friendly refrigerant (R717) and a system that is 95% recyclable, Inelio® reduces the carbon footprint while guaranteeing optimum performance for 20 years or 20,000 cycles. Suitable for residential, commercial and industrial applications, Inelio® also meets the need for autonomous cooling in hot regions, such as Africa, by powering cold rooms. It is an ideal solution for rural areas with limited access to electricity.



Deployability Award category

> FEEDGY for its agrivoltaic modules

The French specialist in the optimisation of solar PV farms, FEEDGY offers a patented module specifically dedicated to agrivoltaics. Incorporating the best PV cell technologies, it is based on advanced photonics technology. On the same surface, it provides high-yield solar electricity production without compromising on agricultural output, which additionally benefits from the presence of the panels: protection from the elements, reduced evapotranspiration, lower water consumption... all the while benefiting from sunlight. Applications: fruit or vegetable crops, horticulture and pasture.



> KLAAS ALL ROAD for the K350E trailer crane

The K350E is a 3.5-tonne, 100% electric trailer crane featuring start-of-the-art technologies for high driving comfort and outstanding performance. It has a maximum load capacity of 1,600 kg, with a lateral reach of 22 metres for a load of 250 kg. Its lithium battery-powered electric motor offers greater range and durability. The battery can be recharged from a 230-volt socket, even during operation, thanks to optimised consumption. The crane can perform demanding tasks using battery power alone.




> SWEEN PILOTIC for its TeeKY by Pilotic Linky radio emitter

TeeKY by Pilotic is an innovative tool for managing energy data and the Smart Grid. This Linky Radio Transmitter can be easily integrated into existing infrastructure, with no need for WiFi, pairing or configuration. Thanks to its unlimited range (NBloT - 4G), TeeKY offers a real-time view of energy data on the grid. It revolutionises access to and use of Linky meter data, facilitating informed decisions and optimised management of energy resources.




Ecosystem Award category


› EPC SOLAIRE for iNovaR

EPC Solaire presents iNovaR, the first solar panel mounting solution for the flat roofs of existing buildings. This innovation makes it possible to retain the corrugated steel sheets, making it easier to install solar panels on large commercial and industrial buildings. To provide a comprehensive solution, EPC Solaire is working with SIKA and RECTICEL, which provide lightweight waterproofing and high-performance insulation. For example, we can replace roofs made up of rock wool + two layers of bitumen weighing +/- 20 kg/m² with a PIR-PVC-underlay solution weighing 8 kg, allowing the addition of 12 kg/m² of photovoltaic panels. This process improves insulation (R=4.5 in PU) and ensures waterproofing that will last the lifetime of the solar farm (minimum 25 years). In addition, the RénoVoltaire.fr website will be launched to bring together experts in the sector (photovoltaic design consultants, diagnosticians, inspectors, insurers, project management consultants, etc.) to secure the projects of project owners  **EPC Solaire** and installers.

› NYSUN for Notre énergie La Soie


Notre énergie La Soie is the largest renewable energy community in the Greater Lyon area, located in Vaulx-en-Velin. Developed by SerenySun in partnership with property developer INEA, this collective self-consumption scheme involves solarising 3,000 m² of roof space in the Les Portes de La Soie business park. The installation comprises 1,530 photovoltaic panels with a total output of 660 kWp, producing 690 MWh of electricity per year, enough to cover the equivalent consumption of 155 households. This inclusive initiative enables businesses and private individuals to benefit from local energy at a controlled price, with no investment or installation required. The energy community, which brings together a range of players within a 2 km radius, is supported by Vaulx-en-Velin town council and the Lyon metropolitan authority, as well as funding from the Nef and the OSER ENR fund. 

› VOLTALIA for the Poisy cattle breeding agrivoltaic demonstrator


VOLTALIA has built and commissioned a cattle breeding agrivoltaic demonstrator at in Poisy, Haute-Savoie, in partnership with the Institut de l'Élevage (IDELE) and the Lucien Biset Breeding Centre. The aim of this innovative five-year project is to study the interactions between photovoltaic infrastructures and cattle rearing systems, focusing on animal welfare and fodder production. The 250 kW demonstrator covers a total area of 7,820 m², of which 1,152 m² is covered by solar panels. The installation comprises six rows of solar panels at different heights to analyse their impact on the microclimate and animal behaviour, with a control area for comparison. The project is part of a drive to develop knowledge about agrivoltaics, with the aim of proposing solutions tailored to farming  practices.

Circularity Award category


› DMEGC SOLAR for Infinity RT fitted with LRF technology

In a market dominated by crystalline silicon photovoltaic modules, DMEGC Solar is breaking new ground by incorporating Light Reflective Film (LRF) technology into its Infinity RT Full Black Bi-glass PV modules. This innovation increases the strength of the modules by ensuring greater uniformity of glass surface tension, which reduces the risk of breakage of the rear pane. In addition, the uniform black finish gives the modules a sleeker appearance and optimises their performance thanks to improved reflectivity. 

› SPARQ for Ligna

By 2025, 150,000 Internet of Things (IoT) devices will be connecting to the Internet every minute around the world, mainly requiring batteries to power them. It is estimated that 75 million of these batteries will be discarded every day. With this in mind, the Swedish company has developed a compact supercapacitor based on bio-based materials such as coconut shells. Ultra-thin and solar-powered, this innovation is a sustainable alternative to batteries, meeting the growing demand for environmentally friendly energy storage solutions for wireless electronics. 

› THEVEN ENERGY for Ecologène®

ECOLOGÈNE® offers standalone solar-powered electricity generators, either mobile or fixed, as an alternative to gensets. This made-to-measure system, installed on a turnkey basis throughout France, uses solar panels and old electric car batteries. In operation, it emits no pollutants, toxic fumes, noise or odours. This solution, available for sale or hire, is aimed at private individuals and companies for applications in the building and public works sector requiring off-grid work, as well as bakers and festivals. 

Presentation of nominees on the Forum's website.



BUSINESS SERVICES AT ENERGAÏA 2024

An unmissable end-of-year event to expand your network, Forum EnerGaïa offers visitors and exhibitors alike a host of free business services to help them find the right solutions for each project and gain in efficiency.

The aim is to make these two intense days as productive as possible for visitors and exhibitors alike.

A matchmaking platform

This online service puts visitors and exhibitors in touch with each other on the basis of shared interests, and enables them to arrange business meetings in just one click.

A personal space to find one's visit schedule

Through their personal space, accessible via the app or on the EnerGaïa website, all participants will be able to find their visit schedule, including a list of their confirmed business meetings, round tables and exhibitors saved in their favourites.

An essential app

Visitors are invited to download (or update) the EnerGaïa mobile app: a tool for an efficient visiting experience!

Business meeting spaces

Two business meeting zones are also available to attendees in halls A3 and B3 in which to hold business meetings.

Three themed visitor trails

With the Sustainable Buildings, Innovation Awards and Employment and Training trails, the show offers three paths guiding visitors and shining a light on exhibitors. These three themes reflect the current challenges of the renewable energy sectors.

The theme trails are available on the Forum's website.



Scan the code and download
the official **FORUM ENERGAÏA**
app





- Forum floor plan
- Your visitor badge
- Your schedule
- Live content audio broadcast
- Talks programme
- Exhibitor list

Forum EnerGaïa is laying on a programme that is both practical and forward-looking, enabling participants to gain insights, source information, exchange and discover all the market's innovations and latest developments.










On the agenda are more than 100 speaking opportunities, talks, expert and inspiring content, returns on experience, workshops and pitches. Here is a small selection of the round tables and exhibitor pitches laid on at this 2024 show.



 All round tables held in the Gaïa and Ouranos theatres are simultaneously interpreted.

 All the round tables are silent conference events. Please bring your earbuds..

Wednesday 11 December (Programme as at 18/11/2024)

	ROUND TABLES	HALL -THEATRE
10h25 – 12h15	OPENING ROUND TABLE RENEWABLES ENERGIES: How to make the sector attractive to all audiences	Hall B4 - GAÏA 
	How to support local authorities in their renewable energy development projects	Hall B3 - HELIOS 
14h00 – 15h00	EnR and biodiversity: lessons learned from experiments in regional nature parks	Hall B3 - OURANOS 
	Geothermal energy, a tool for adapting to global warming	Hall B3 - EOLE 
	Agrivoltaics: which model is acceptable?	Hall B4 - GAÏA 
15h30 – 16h30	Biowaste, a new source of biogas?	Hall B3 - EOLE 
	Renewable hydrogen to decarbonize local mobility	Hall B3 - OURANOS 
	What kind of development for wood energy, today and tomorrow ?	Hall B3 - HELIOS 
	EnR & storage, a crucial challenge for the energy transition. What progress has been made?	Hall B4 - GAÏA 

2024 PROGRAMME

ROUND TABLES AND PITCHES

Thursday 12 December

	ROUND TABLES	HALL -THEATRE
9h30-11h00	Live pitches by Innovation Award Nominees	Hall B3 - EOIE 
9h30 - 10h30	How offshore wind power is structured to stay in course	Hall B4 - GAÏA 
	Industrial building: combining low-carbon construction and renewables	Hall B3 - HELIOS 
9h30 - 10h45	EnR: eco-design and recycling to produce new equipment, a french and european industrial challenge	Hall B3 - OURANOS 
10h45 - 11h00	Testing to accelerate marine renewable energies: a new high-power site	Hall B4 - GAÏA 
11h00 - 12h00	District heating networks to decarbonize our buildings	Hall B3 - OURANOS 
	Ports, anchors for the development of floating wind turbines	Hall B4 - GAÏA 
	How to support the growth of community solar farms in france?	Hall B3 - HELIOS 
14h00 - 15h00	CSR in the renewable energies sector: how to reconcile the development of the sector with the public interest?	Hall B3 - OURANOS 
	How to develop a large-scale solar thermal system to decarbonize housing and industry in france?	Hall B4 - GAÏA 
	How to accelerate the coupling of photovoltaics and e-mobility?	Hall B3 - HELIOS 
	Tax credit for investments in green industry	Hall B3 - EOIE 
15h30 - 16h30	Solar energy, how can europe reindustrialize? Is it still possible?	Hall B4 - GAÏA 
	Solar self-consumption for businesses: what's the economic gain?	Hall B3 - HELIOS 
	Agricultural biomethane , an opportunity to be consolidated. How to go from project to acceptance	Hall B3 - EOIE 

Wednesday 11 December

	EXHIBITOR PITCH	HALL -THEATRE
10h - 10h20	A successful self-consumption study: best practices and pitfalls to avoid for a successful self-consumption study	Hall B1 Pavillon Bâtiment Durable Espace pitch
10h10 - 10h50	Structuring the hydrogen industry in Occitania through training in hydrogen-related professions	Hall B3 Pavillon Emploi Formation Espace pitch
10h30 - 10h50	CRM and ERP software: the key to a 360° view of your business and a more efficient enterprise	Hall B1 Pavillon Bâtiment Durable Espace pitch
11h - 11h20	Collective self-consumption for short energy circuits	Hall B1 Pavillon Bâtiment Durable Espace pitch
	Training in technical occupations: a brake on the energy transition	Hall B3 Pavillon Emploi Formation Espace pitch
11h - 11h30	What are the benefits and challenges of self-consumption ?	Hall B2 Pavillon Pôle DERBI Espace pitch
11h30 - 11h50	Geoenergy , infinite and local energy	Hall B1 Pavillon Bâtiment Durable Espace pitch
	Transition énergétique & réseaux électriques: how is Enedis and the industry preparing for the recruitment challenges of the coming years?	Hall B3 Pavillon Emploi Formation Espace pitch
12h - 12h20	Maïada project: Occitanie's first sustainable building, 100% built by BTP CFA apprentices	Hall B3 Pavillon Emploi Formation Espace pitch
	Socol: focus on dynamic commissioning and monitoring	Hall B1 Pavillon Chaleur Solaire Espace Pitch
14h30 - 14h50	Presentation of collective self-consumption	Hall B1 Pavillon Chaleur Solaire Espace Pitch
	Winning strategies for recruiting in the renewable energy sector	Hall B3 Pavillon Emploi Formation Espace pitch
	Geothermal energy - sustainable energy beneath our feet	Hall B1 Pavillon Bâtiment Durable Espace pitch
14h30 - 15h	What impact do the technologies used have on the emission factor associated with photovoltaic production ?	Hall B2 Pavillon CEMATER Espace pitch

2024 PROGRAMME

ROUND TABLES AND PITCHES

	EXHIBITOR PITCH	HALL -THEATRE
15h - 15h20	Collective self-consumption, a new form of regional cooperation	Hall B1 Pavillon Bâtiment Durable Espace pitch
	Solar subscription to accelerate the energy transition	Hall B1 Pavillon Chaleur Solaire Espace Pitch
15h - 15h30	Promoting collective self-consumption	Hall B2 Pavillon CEMATER Espace pitch
	Thermochemical storage of renewable thermal energy: principle, operation and feedback	Hall B2 Pavillon Pôle DERBI Espace pitch
15h30 - 15h50	EnR training courses offered by GRETA CFA GARD LOZERE	Hall B3 Pavillon Emploi Formation Espace pitch
	Different solar thermal applications to decarbonize large heat consumers	Hall B1 Pavillon Chaleur Solaire Espace Pitch
	Help your customers to self-consume simply with the ecojoko display unit	Hall B1 Pavillon Bâtiment Durable Espace pitch
15h30 - 16h	Self-consumption through solar power generation: the process and benefits for your business	Hall B2 Pavillon CEMATER Espace pitch
	CSR and the low-carbon economy	Hall B2 Pavillon Pôle DERBI Espace pitch
16h - 16h20	Geothermal energy on probes - a case study: construction of the ludivine furnon sports hall in nîmes	Hall B1 Pavillon Bâtiment Durable Espace pitch
	From design to implementation, from financing to maintenance. A turnkey solution.	Hall B1 Pavillon Chaleur Solaire Espace Pitch
	Training, more than a job, a passion	Hall B3 Pavillon Emploi Formation Espace pitch
16h - 16h30	How can the synergy between agricultural production and electricity generation be justified?	Hall B2 Pavillon CEMATER Espace pitch
	Electricity supply and direct purchase contracts	Hall B2 Pavillon CEMATER Espace pitch

2024 PROGRAMME ROUND TABLES AND PITCHES

	EXHIBITOR PITCH	HALL -THEATRE
16h30 - 16h50	How can you effectively manage the skills development of your teams in the field?	Hall B1 Pavillon Bâtiment Durable Espace pitch
16h30 - 17h	Genhyo: hydrogen industry training courses in Occitania	Hall B3 Pavillon Emploi Formation Espace pitch
	Photovoltaic greenhouses: an effective tool for crop protection	Hall B2 Pavillon CEMATER Espace pitch
	Drones for renewable energy	Hall B2 Pavillon Pôle DERBI Espace pitch
17h - 17h20	It's possible to solarize your existing roofs!	Hall B1 Pavillon Bâtiment Durable Espace pitch
17h - 17h30	A unique and innovative joint solar offering for the agricultural sector	Hall B2 Pavillon CEMATER Espace pitch

Thursday 12 December

	EXHIBITOR PITCH	HALL -THEATRE
9h30 - 11h30	Live pitches by innovation award nominees	Hall B3 - Salle EOLE
10h - 10h20	Thermal storage in france: where do we stand?	Hall B1 Pavillon Chaleur Solaire Espace Pitch
	Geothermal energy: how to choose the right system for your specific project?	Hall B1 Pavillon Bâtiment Durable Espace pitch
10h - 10h30	A storage and control system for every need	Hall B2 Pavillon Pôle DERBI Espace pitch
	Making your projects sustainable and insurable	Hall B2 Pavillon CEMATER Espace pitch

2024 PROGRAMME

ROUND TABLES AND PITCHES

	EXHIBITOR PITCH	HALL -THEATRE
10h30 - 10h50	Turn challenges into opportunities: the impact of CRM and ERP software for 360° vision	Hall B1 Pavillon Bâtiment Durable Espace pitch
	Presentation of a BTES solar thermal power plant with interseasonal storage	Hall B1 Pavillon Chaleur Solaire Espace Pitch
10h30 - 11h	Planning permission for solar farms: good practice for architects	Hall B2 Pavillon CEMATER Espace pitch
10h30 - 11h10	Hydrogen platforms for training in the energy transition	Hall B3 Pavillon Emploi Formation Espace pitch
11h - 11h20	Collective self-consumption for short energy circuits	Hall B1 Pavillon Bâtiment Durable Espace pitch
	Solar subscription to accelerate the energy transition	Hall B1 Pavillon Chaleur Solaire Espace Pitch
11h - 11h30	Importance and benefits of thermal storage	Hall B2 Pavillon Pôle DERBI Espace pitch
	The heart of solar energy: promoting the builders of photovoltaic power plants	Hall B2 Pavillon CEMATER Espace pitch
11h20 - 11h40	Maiada project: Occitanie's first sustainable building, 100% built by BTP CFA apprentices	Hall B3 Pavillon Emploi Formation Espace pitch
11h30 - 11h50	Geoenergy , infinite and local energy	Hall B1 Pavillon Bâtiment Durable Espace pitch
	Photovoltaic carports: how to optimize structures and costs?	Hall B1 Pavillon Chaleur Solaire Espace Pitch
11h30 - 12h	Everything you need to know about PPA	Hall B2 Pavillon CEMATER Espace pitch
11h30 - 12h35	Issues and prospects for users and energy services.	Hall B2 Pavillon Pôle DERBI Espace pitch
11h50 - 12h10	Training in technical occupations: a brake on the energy transition	Hall B3 Pavillon Emploi Formation Espace pitch

2024 PROGRAMME

ROUND TABLES AND PITCHES

	EXHIBITOR PITCH	HALL -THEATRE
12h - 12h20	Install IRVE kiosks , then what?	Hall B1 Pavillon Chaleur Solaire Espace Pitch
12h - 12h30	Renewable energy with confidence	Hall B2 Pavillon CEMATER Espace pitch
12h30 - 13h30	Energaïa innovation trophies: awards ceremony followed by a cocktail reception	Hall B3 - EOLE
14h - 14h30	AVES: new bird detection system	Hall B2 Pavillon CEMATER Espace pitch
14h30 - 14h50	Collective self-consumption , a new form of regional cooperation	Hall B1 Pavillon Bâtiment Durable Espace pitch
	How to generate solar heat up to 400° for in-dustry?	Hall B1 Pavillon Chaleur Solaire Espace Pitch
14h30 - 15h	Re-evaluation of wind farm yields using artificial intelligence	Hall B2 Pavillon CEMATER Espace pitch
	Training, more than a job, a passion	Hall B3 Pavillon Emploi Formation Espace pitch
15h - 15h20	Geothermal energy - sustainable energy be-neath our feet	Hall B1 Pavillon Bâtiment Durable Espace pitch
15h - 15h30	The challenges of dynamic flanges for the wind energy industry	Hall B2 Pavillon CEMATER Espace pitch
15h10 - 15h30	EnR training courses offered by GRETA CFA GARD LOZERE	Hall B3 Pavillon Emploi Formation Espace pitch
15h30 - 16h	Circularity and offshore wind power: RWE'S experience	Hall B2 Pavillon CEMATER Espace pitch
15h40 - 16h	Responding to the shortage of skilled workers: practical solutions to simplify skills up-grading at your company	Hall B3 Pavillon Emploi Formation Espace pitch
16h - 16h30	Onboarding as fish and chips way: the winning duet	Hall B2 Pavillon CEMATER Espace pitch

2024 PROGRAMME

ROUND TABLES AND PITCHES

Wednesday 11 december

	EXHIBITOR WORKSHOP	HALL -THEATRE
10h45 - 11h45	How can you make the most of the output from your power plants no longer covered by the feed-in tariff?	Hall B3 Salle MÉDITERRANÉE
12h - 13h30	Turnkey photovoltaic solutions for solar project developers	Hall B3 Salle PYRÉNÉES
	Securing the economy of photovoltaic projects without public support for production	Hall B3 Salle MÉDITERRANÉE
14h - 15h	Storage in action: is the californian example worth following?	Hall B3 Salle MÉDITERRANÉE
	Photovoltaic installations: technology, investment, contracts, etc. Understanding the issues to make the right choices	Hall B3 Salle PYRÉNÉES
15h15 - 16h15	Developing sensible agrivoltaics: regulatory framework and appreciation of public/private players	Hall B3 Salle MÉDITERRANÉE
15h45 - 16h45	Ecological transition: how to decarbonize construction sites?	Hall B3 Salle PYRÉNÉES
16h30 - 17h30	Agrivoltaics: what obligations and support for agricultural monitoring and control?	Hall B3 Salle MÉDITERRANÉE

Thursday 12 december

	EXHIBITOR WORKSHOP	HALL -THEATRE
9h30 - 10h30	Meeting the new challenges of renewables and storage: a developer's and an aggregator's shared vision	Hall B3 Salle MÉDITERRANÉE
10h45 - 11h45	How can we develop flexible electricity consumption on a day-to-day basis? It's like déjà vu, but it hides a real sea change	Hall B3 Salle PYRÉNÉES
12h - 13h	Solarizing existing roofs with a lightweight module solution made in france: it's possible!	Hall B3 Salle PYRÉNÉES
	Roundtable discussion: integrating drones and AI for photovoltaic maintenance	Hall B3 Salle MÉDITERRANÉE
14h - 15h	Renewable energies, the metropolis takes action: an update on renewable energy strategies in the Montpellier Metropolis	Hall B3 Salle MÉDITERRANÉE

SPL Occitanie Events, the organiser of Forum EnerGaïa, is committed to an eco-friendly approach.

It has been certified ISO 20121 by AFNOR since January 2021 for all its activities.



Forum EnerGaïa also invites its exhibitors, partners and visitors to undertake to adopt the right attitudes and behaviours before and during the event:

- ▶ prioritise the use of collective and 'soft' modes of transport
- ▶ limit plastic waste by bringing reusable containers
- ▶ sort waste, drop off badges and lanyards in the recycling bin

A tool to calculate the carbon emissions generated by getting to the show is also available online to encourage people to adopt more sustainable transport modes.

The Forum also offers exhibitors practical tips to eco-design their stands, reduce their energy use and the amount of waste they produce during the event, also offering vegetarian options for on-stand receptions.



The Forum's policy

As it is dedicated to renewable energy and the transition to a low-carbon world, Forum EnerGaïa has a duty to lead by example in terms of sustainability. This is why Forum EnerGaïa is continuing to pursue the actions in a continuous improvement logic:



Adopt responsible communications and raise stakeholder awareness



Encourage sustainable mobility



Offer responsible catering options in association with our food service provider



Optimise energy and fluid consumption



Reduce waste and increase the recovery of that which is unavoidable



Reduce our impact on biodiversity



THE FORUM'S PARTNERS

AN EVENT BY



INSTITUTIONAL PARTNERS



ENERGAÏA SUPPORTS THESE CAUSES



MEDIA PARTNERS





DATES & OPENING HOURS

Free forum for professionals only.
Mandatory online registration.

- ▶ **Wednesday 11 December 2024:** 9 am to 6 pm
 - ▶ **Thursday 12 December 2024:** 9 am to 5 pm
- Two entrances: reception A (north) and reception B (south)



VENUE : MONTPELLIER EXHIBITION CENTER

Route de La Foire 34470 Pérols FRANCE
Phone : +33 (0)4 67 17 68 17



PRESS ACCESS

Press reception at Entrance A of the Exhibition Centre
Access to car park A: 43.574344, 3.947937

Find all the useful information you need to prepare your visit here : www.energaia.fr



PRESS ACCREDITATION

To request press accreditation, [click here](#).

Non-accredited journalists can apply for accreditation on site.

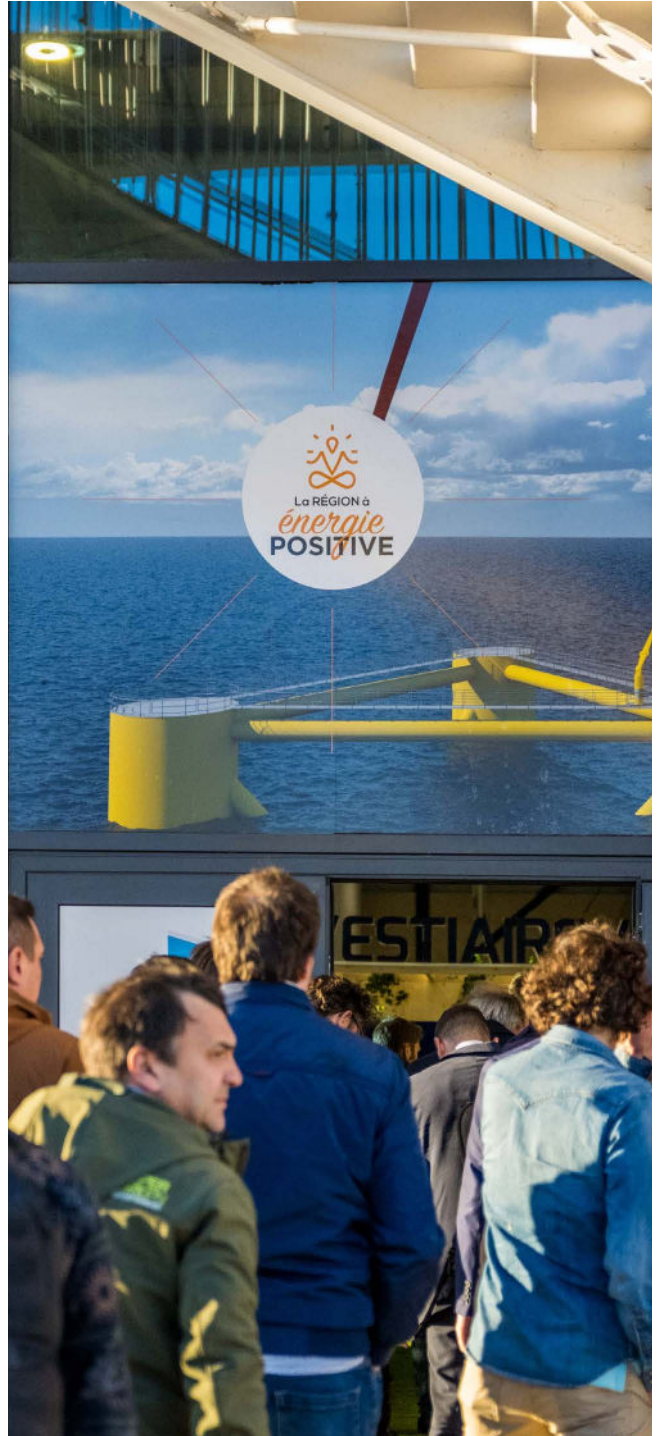


THE PRESS CLUB is located in Hall B3.

Work areas with Wi-Fi and secure lockers.

Press information (videos, photos and press releases) is available at www.energaia.fr, in the 'Press Area' section.

Get the Forum EnerGaia mobile app scan this QR code



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Renewable energy Forum

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PRACTICAL INFORMATION

The Press Acces is located at Entrance A of the Exhibition Centre
Find the Press Club in Hall B3



Get the Forum EnerGaia mobile app
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To request press accreditation,,
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