

13-14
DÉCEMBRE
2023

Parc des
expositions
Montpellier

enerGaia

Forum des énergies renouvelables
Renewable energy Forum

DOSSIER DE PRESSE
PRESS RELEASE

Le Forum
100% Enr

The all-renewable
energies Forum



Let's pool our energies
Ensemble, rassemblons nos énergies

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À PROPOS DU FORUM ENERGAÏA

ABOUT FORUM ENERGAÏA

Événement annuel dédié aux professionnels des secteurs des énergies renouvelables et la transition énergétique, porté par la Région Occitanie / Pyrénées-Méditerranée et organisé par la SPL Occitanie Events, le Forum EnerGaïa accompagne depuis 17 ans la filière des énergies renouvelables, en proposant de véritables solutions environnementales pour les territoires, les villes ainsi que les industries. Solaire flottant, agrivoltaïsme, autoconsommation, chaleur renouvelable, biogaz, ombrières PV, hydrogène vert, décarbonation... Un programme de conférences d'excellence qui confirme que le Forum EnerGaïa est définitivement le rendez-vous BtoB de toutes les EnR.

An annual event dedicated to renewable energy industry professionals, supported by the Occitanie/Pyrénées-Méditerranée Regional Authority and organised by SPL Occitanie Events, Forum EnerGaïa has been accompanying the renewable energy industry for 17 years by offering genuine environmental solutions for communities, cities and industry. From floating solar, agrivoltaics, self-consumption and renewable heat to biogas, PV carports, green hydrogen and decarbonisation, a programme of high level talks and live content confirms the status of Forum EnerGaïa as the definitive tradeshow for all renewable energies.

POUR TOUTE QUESTION, CONTACTEZ-NOUS :

For any questions, contact us :

+33 (0)4 67 17 68 17

energaia.info@spl-occitanie-events.com

CONTACTS PRESSE :

Press contacts :

Claudie VERGNES

+33 (0)6 72 72 32 28

cvergnnes@relationspresse.net

Marie-Amélie LEROUX

+33 (0)6 98 14 50 21

maleroux@relationspresse.net

EDITORIAL

Carole Delga,
Chair of the Occitanie / Pyrénées-Méditerranée Regional Authority



For nearly 20 years, EnerGaïa has been the definitive gathering for everything to do with renewable energy in Occitania. With more than 10,000 participants expected to meet the 400 exhibitors, and a wide range of workshops and talks, the show will be, as it is every year, a high point in the energy transition calendar.

Renewables are a key asset in our response to the climate emergency. On a global scale, energy generation accounts for nearly half our greenhouse gas emissions. This is why I made the development of this green energy an absolute priority.

In Occitania, we are leading by example with a proactive and innovative policy on the subject. Whether in offshore wind power or green hydrogen, we are active across the board to increase the proportion of energies of the future in our energy mix. Today, renewables cover 40% of our demand, making Occitania the leading French region on this metric. With many other projects in the pipeline, we are set to go even further than that. Between 2016 and 2030, 2.2 billion euros will have been invested in Occitania in the energy transition.

In our region, developing renewables is not the only area in which we are acting to reduce our impact on the environment. I can also point to energy renovation, both in public buildings and in housing. More than 1,100 local authority projects have been supported with aid amounting to €23 million. In addition, nearly 170,000 pieces of advice and support have been dispensed to individuals through the Rénov'Occitanie help desk.

With renewable energy, energy renovation and green transportation, it is by pooling all our forces that we will succeed in our aim: to become Europe's first positive energy region. And it is by coming together at events like EnerGaïa that we collectively build this future.

Wishing everyone a successful show !

Carole DELGA

Chair of the Occitanie / Pyrénées-Méditerranée Regional Authority

EDITORIAL

Marie-Thérèse Mercier,
Occitanie / Pyrénées-Méditerranée Regional Councillor
& Chair of SPL Occitanie Events



In response to the energy and climate challenge, we have placed this edition of EnerGaïa under the banner of accelerating the adoption of renewable energy, in the very heart of communities.

This edition is one that promises to put forward practical solutions, thanks notably to the 400 exhibitors and approximately 100 speakers who will share their vision, experience and skills.

It is an edition that promises to offer even more discussions and sharing with the opening of a space dedicated to exchange between businesses and the arrangement of targeted business appointments between visitors and exhibitors.

It is an edition that promises to support companies in their efforts and adoption of renewable energy to mitigate their impact on global warming.

It is an edition that promises to provide the younger generation, responsible for sustaining the efforts, with the keys to building a sustainable society. Our plenary conference will address the desirable developments of work, the demands of young people and the meaning of a genuine corporate social responsibility.

I would like to thank the companies who have once again this year turned out in force for their commitment and continued supports, and all the partners of the Forum who support and endorse the event. I would also like to thank the teams who work all year round to bring you an event that meets your expectations, our expectations, and the expectations and challenges of tomorrow's world.

Welcome to Montpellier, and I wish you an enjoyable time at EnerGaïa 2023 !

Marie-Thérèse MERCIER

Occitanie / Pyrénées-Méditerranée Regional Councillor
& Chair of SPL Occitanie Events

Economic overview of the renewable energy sector in France

RENEWABLE AND RECOVERED ENERGY



- **A market worth €31.3 billion in 2020**, (last figure available from Ademe) up 15% on 2018.
- **112,930 direct jobs (EFT) in 2020** (last figure available from Ademe), up 21% on 2018 (Ademe).
- **Renewable electricity covered 26% of French demand in 2022.**
- **Renewable heat energy covered 22.3% of final heat consumption in 2021** (last available figure), still a long way short of France's target for 2020 of 33% (SER).

Sources: RTE, Ademe, Panorama de la chaleur renouvelable et de récupération - 2022 issue.

PHOTOVOLTAIC SOLAR POWER



- **New capacity installed** in first half of 2023: **1,378 MW** were connected, which is more than 100MW more than the first half of 2022.
- **Total capacity in operation at end of June 2023 : 18 GW.** Nouvelle-Aquitaine and Occitania are the top two regions in France, with 4.2 GW and 3.4 GW respectively in service at the end of June.
- **Photovoltaic production** at end of June 2023 : **11.2 TWh**, covering 4.7% of national electricity demand.
- **Projects in approval procedure** at end of June 2023: 20.1 GW including 4.9 GW with a grid connection agreement signed.
- **12.160 direct jobs** at end of 2020 (last figure available from Ademe), up 88% since 2018.

Sources : SDES according to Enedis, RTE, EDF-SEI and CRE, Ademe.

WIND POWER



- **New capacity installed** in first half of 2023: **1,084 MW including 496 MW offshore** (Saint-Brieuc windfarm).
- **Total capacity in operation** at end of June 2023: **22.5 GW including 1GW offshore.**
- **Wind energy production** at end of June 2023: 28.4 TWh, covering **10.8% of nationwide demand.**
- **Farms in approval procedure :** at the end of June, **11.3 GW of land-based wind farm** projects and **2.1 GW of offshore wind** projects were on the waiting list for grid connection.
- **Floating offshore wind power :** the three 8.4 MW turbines of the first French pilot floating wind farm, Provence Grand Large, were installed between September and October, 17 kilometres off the coast of Port-Saint-Louis-du-Rhône in the PACA region. Three other pilot farms are to be commissioned in France between now and 2024, in Occitania and Brittany.
- **28,266 direct and indirect jobs** in the wind power branch in France in 2022, +11% compared to 2021 (figure from France Renouvelables, formerly FEE).

Sources: SDES according to Enedis, RTE, EDF-SEI and CRE, France Renouvelables.

BIOENERGY



- **Biogas produced from cogeneration** to generate electricity at end June 2023: 1,046 plants, representing 585 MW which produced 1.1 TWh in the first half of 2022, or **0.5% of French demand**.
- **Biomethane injected** into the gas mains at end June 2023 : 591 plants, representing **production capacity of 10.5 TWh/year**, up 13% compared with the end of 2022.
- **Wood fuel and wood used for domestic heating** represented 65% of renewable heat in metropolitan France in 2021, equating to **102.4 TWh** produced.
- France is the leading country in Europe for biofuel production.
- **32,180 direct jobs** in 2020 (last figure available from Ademe) in the bioenergy sector (wood fuel, biofuel, biogas).

Sources: SDES according to Enedis, RTE, EDF-SEI and CRE, EurObserv'ER, Ademe.

HEAT PUMPS AND GEOTHERMAL ENERGY



- **France has the second largest number of installed heat pumps in Europe**, behind Italy, and comprising 98% of air source heat pumps.
- With regard to the power of geothermal district heating networks, **France is the leading country in Europe**, with 658 MWth of installed capacity in 2020 (last figure available from EurObserv'ER).
- The heat pump sector directly employed **34,000 people in 2020**, and **surface and deep geothermal energy 3,830** (last figures available from Ademe).

Sources : EurObserv'ER, Ademe.

HYDROELECTRICITY



- **11% of total electricity production** in France in 2022 came from hydroelectricity.
- Installed capacity in France: 25.7 GW, generating **49.6 TWh in 2022**, its lowest level since 1976, due to the drought.
- **12,040 direct jobs** in 2020 (last figure available from Ademe).

Sources : RTE, Ademe.



Energy transition: the Occitania Region leading the way



Qair - projet Eolmed

The Positive Energy Region:

- **2.2 billion euros invested** in the energy transition between 2016 and 2030
- 40.1% of the region's total consumption covered by renewable electricity production (source: RTE renewable energy panorama), making it **the leading French region in this field.**
- 2nd region for installed photovoltaic capacity
- 2nd region for installed hydroelectric capacity

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.** The floats for the two 60 Megawatt pilot farms are currently under construction. These six wind turbines will soon be joined by a first 250 Megawatt commercial wind farm, followed by a second 500 MW wind farm off the coast of Occitania.

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. This lead will enable the Occitania Region to promote the ambitions of offshore wind power in France, particularly in the context of the wide-ranging public debate "La mer en débat" (The sea in debate), which aims to plan the continued development of the industry up to 2050.

The Occitania Region and SEMOP Port-La Nouvelle are also building the hub for renewable marine energy in the Mediterranean: the infrastructure completed by the Region at the end of the year will enable all the port operations for the pilot farms to be carried out. Within 2 years, the SEMOP will have completed a 40-hectare green breakwater equipped to accommodate the industrialisation of the commercial wind farms.



FLOATING OFFSHORE WIND POWER IN OCCITANIE IN A FEW FIGURES:

- **2 pilot farms** off Gruissan and Leucate/Barcarès in 2024 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 average 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, and supports the 11 bidders for tender n°6 for commercial wind farms in the Mediterranean.

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:

- **2023**, the foundation stone was laid for 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 electrolysers producing a total of 18.6 MW from 2024 and commissioning of Hyport's major green hydrogen production site at Toulouse-Blagnac airport .
- **At the end of 2023**, delivery of the HydrOmer dual mode (hydrogen + electric) dredge rfor the port services of Sète and Port la Nouvelle (Experimentation scheduled for 2025).
- **In 2024**, the commissioning of LHYFE at Bessières, the second massive hydrogen production site in Occitania, and 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.
- **2025**, the procurement and commissioning of **three hydrogen-powered train sets**.
- **By 2030**: The installation of **55 fuel stations**, and support for the acquisition of **3,250 hydrogen-powered vehicles**.



NEW

FOCUS ON THE INAUGURATION OF 2 MAJOR NEW RENEWABLE HYDROGEN PROJECTS:

The **HyPort project at Toulouse-Blagnac airport**, which will be inaugurated on 4 December 2023: supported by ENGIE solutions and AREC, this facility is the first renewable hydrogen production and distribution ecosystem in operation at an airport in Europe. The project comprises:

- 5 hydrogen-powered buses by Safra, a manufacturer based in the Tarn department, to transport airport passengers, including two Airbus shuttles for its employees' journeys.
- 2 fuel stations installed both airside and landside.
- A 430 kg/day electrolyser.
- Production potential to power 200 light vehicles.

The **Lhyfe project at Bessières**, which will be inaugurated on 7 December 2023. 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).

- **For the energy renovation of public buildings**, by helping local authorities to improve the energy performance of their buildings. The work carried out must achieve energy saving of 30% and a C class rating. For municipalities with more than 10,000 inhabitants, the objective is to achieve a B class rating. Before carrying out the work, local authorities must carry out an energy audit, which will help them to target the most energy-intensive buildings. Regional aid can cover up to 25% of the total cost of the work (up to a maximum of €50,000).

The citizen Region

RÉNOV'OCCITANIE: THE REGIONAL PUBLIC SERVICE FOR INFORMATION AND SUPPORT ON ENERGY RENOVATION



Launched in 2021, Rénov'Occitanie is **the first regional energy renovation service**. With a network of 31 information desks across the region, this advice and guidance service is aimed at private individuals in single-family homes (80,000 people assisted each year) or in collective housing, throughout their energy renovation project.

Through Rénov'Occitanie, the Region offers residents **personalised, unbiased and free support** in undertaking energy renovation work. They can then be guided towards the most appropriate support programme for their situation, and contact the right local players.

The Occitania Region: the leading partner in the energy transition of local authorities

- **For energy renovation of public buildings to reduce their energy consumption:** with over 1,100 renovation projects financed (€23m) in the communities, representing an annual saving of 112 GWh for local authorities (equivalent to the annual consumption of 9,900 households).
- **For the de-sealing and rewilding of public spaces and schoolyards**, through projects that preserve biodiversity and create cool and natural islands, while helping to reduce the impact of urban run-off. School grounds in particular are targeted, as they represent a major source of space to be de-sealed in the heart of towns and cities. **A new regional aid scheme** will be put to the vote of regional councillors on **14 December** as part of the approval of the **Sustainable Housing Plan**.

NEW

RÉNOV'OCCITANIE STEPS UP ITS INFORMATION SUPPORT FOR PRIVATE INDIVIDUALS

The Rénov'Occitanie regional public service for energy renovation is evolving and strengthening its local «information/advice/orientation» services to meet the expectations and needs of local residents. The 3010 hotline that was set up to simplify the support process for residents and give them access to all Rénov'Occitanie services is furthermore still available.



KEY FIGURES FOR RÉNOV OCCITANIE:

- **169 544 advice** and support services provided by Rénov'Occitanie information desks.
- **164 advisers** across the region.
- **230 collective housing units** (a total of 7,000 dwellings) are currently being supported as part of the Rénov'Occitanie programme.
- **64% average energy savings** achieved through the supported renovation work.



SUPPORTING COMMUNITY-LED RENEWABLE ENERGY AND COMBATING FUEL POVERTY

In Occitania, 7,000 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

- **7 000 citizens** in local cooperatives in Occitania.
- **29 gigawatt hours/year produced** by these community projects (equivalent to the annual consumption of nearly 26,000 people in Occitania, excluding heating).
- **6 ground-mounted solar farms** already **installed**
- **7 community wind farm projects** under development.

NEW

LAUNCH OF A NEW CALL FOR PROJECTS TO COMBAT FUEL POVERTY, SUPPORTED BY THE OCCITANIA REGIONAL AUTHORITY

In Occitania, **14% of households are affected by fuel poverty** in housing (Source: GEODIP, 2018). On 21 June, the **Énergie Solidaire Occitanie** programme, initiated by the **Énergie Solidaire endowment fund** and **supported by the Occitania Region and the Regional Energy and Climate Agency**, launched its first call for projects aimed at local associations. The aim: fund **grassroots players** who offer appropriate, multi-disciplinary support to vulnerable households over the long term.

A total of €100,000 will be donated to the winners of the call for projects, enabling them to carry out their initiatives from 2024 onwards, including funding for energy improvements, assisted or shared self-renovation schemes, etc.

The winners will be announced at Forum EnerGaïa on Wednesday 13 December 2023 at 4pm on the Région-AREC-ADOCC stand, by Agnès Langevine, Vice-President of the Occitania Regional Authority and holder of the Climate portfolio.



The expert partners of the renewable energy sector



ADEME

A public establishment under the supervision of the Ministry for an Ecological Transition and Territorial Cohesion, the Ministry for the Energy Transition and the Ministry for Higher Education and Research, ADEME - the French Agency for Ecological Transition – contributes to the fight against global warming and the degradation of resources. It supports all players in society in changing models.

"EnerGaïa is the benchmark forum for renewable energies. Owing to its missions, ADEME is therefore a natural participant in this event, and has been since the first edition in 2006. As a partner of the Forum, ADEME helps build the programme of talks, and several of the Agency's experts will be speaking at round-table discussions and workshops. The Agency will also have a stand (E10, in Hall B2) to present its technical and financial support to companies and local authorities in the area of energy transition."

www.agirpoulatransition.ademe.fr

ADOCC

As the Occitanie region's economic development agency, AD'OCC places its expertise at the service of companies and communities, with a dual ambition: to increase the national and international appeal of the Occitanie region, and to create value and jobs in all its communities.

The agency structures and drives strategic business sectors in the Occitanie region: those of the ecological transition, water, and renewable energies: hydrogen, floating offshore wind power, photovoltaic solar energy and biogas.

"AD'OCC is taking part in EnerGaïa 2023 to help regional players in these sectors position themselves upstream on the promising markets of the future and boost their profile in France and internationally; regional players who, on a daily basis, provide practical solutions to the energy crisis in the housing, transport, industry and agriculture sectors".

www.agence-adocc.com



AREC

AREC is the Occitanie Region's vehicle for accelerating the energy transition. It supports all players in the region - public authorities, economic players, project developers and citizens - as they put their ideas into action.

As a trusted third party serving the public interest, AREC is involved in the entire energy transition value chain, from project emergence to their implementation and financing.

To this end, it provides a comprehensive range of services to help massify the development of renewable energies, while investing in innovative projects and sectors.

www.arec-occitanie.fr



CAPEB

The Confederation of Building trades and Small Businesses, CAPEB, is the employer organisation representing building trades. Its missions are to promote, defend and represent. Independent of the public authorities, CAPEB has been pursuing its public interest activities since 1946. CAPEB Hérault works for its members by advising and informing them on a daily basis and representing them across the department. With its legal and financial independence, it conducts actions all year round aiming to promote building trades.

The partnership with EnerGaïa illustrates the importance given to renewable energy, a major challenge that building contractors have a duty to address.

www.capeb.fr/herault



CEMATER

Founded in 2009, Cemater is an association that federates energy transition professionals around collective, collaborative projects to boost the economic development of the sector in the Occitanie Pyrénées-Méditerranée region. Working alongside the stakeholders in the community, Cemater makes a tangible, ethical contribution to the challenges of a successful energy transition.

«As a long-standing partner of the event, Cemater actively supports Forum Energaïa through the ever-increasing involvement of its members. In 2023, Cemater will be highlighting the importance of biodiversity in the implementation of renewable energy projects, as well as the charter of commitments drawn up to promote the development of agrivoltaics, a solution that represents a real vector for achieving positive energy region targets in the region by 2030.»

cemater.com





CMA

The Chambre de Métiers et de l'Artisanat de l'Hérault (Hérault Chamber of Trades and Crafts) is a public body whose mission is to represent the general interests of the skilled trades before the public authorities. The CMA de l'Hérault is a key player in the ecological transition of businesses. It is developing a specific sustainable development programme based on three pillars: energy, mobility and the circular economy. As part of the Rénov'Occitanie network, it supports companies in their energy renovation projects.

"After a successful show in 2022, the CMA de l'Hérault is keen to continue its partnership with EnerGaïa in 2023. It will have a stand in the Sustainable Building Pavilion, to promote its support services to professionals attending the exhibition."

www.cma-herault.fr



ENVIROBAT

A network of players and a resource centre, Envirobat Occitanie is a regional association of professionals that contributes to reducing the environmental footprint of buildings and developments in Occitania. Its ambition is to mobilise and equip professionals to transform their practices and models.

"Building comfortable, low-carbon living spaces by 2070 will depend on the extensive development of renewable energies in our region. With this in mind, Envirobat Occitanie has been a partner of EnerGaïa for many years, helping to build bridges between the worlds of building, development and renewable energies."

www.envirobat-oc.fr



FRANCE RENOUVELABLES

Established in 1996, France Renouvelables represents, promotes and defends wind energy in France. The trade association has more than 350 members, all professionals in the wind energy sector in France, who have built more than 90% of the turbines installed in France and operate more than 85% of them.

«As a partner of the EnerGaïa event for several years now, France Renouvelables wants to be at the heart of the renewable energy players in France and Occitanie. As a must attend event in the sector, France Renouvelables supports and regularly takes part in EnerGaïa.»

www.fee.asso.fr





PÔLE DERBI

Dedicated to the energy transition, the DERBI competitive cluster's mission is to develop innovation, training, technology transfer, business development and start-ups at regional, national and international level. With almost 200 members to date, the DERBI cluster brings together all the key players in the renewable energy sector: companies, laboratories, universities, training centres, professional federations, financial organisations and partner local authorities.

"2023 is the year in which the law on accelerating the deployment of renewable energies in France was passed, and the cluster plays a major role in the emergence and marketing of innovative products and services in the sector. As a long-standing partner of the exhibition, the DERBI cluster sits on its steering committee and, for this 2023 edition, will be hosting 11 of the cluster's member organisations in its 150 sqm pavilion at the heart of the show."

www.pole-derbi.com



PÔLE MER MÉDITERRANÉE

A leading player in innovation in the maritime and coastal economy, with 500 members from a wide range of backgrounds (major groups, start-ups, SMEs, research centres and training bodies), the Pôle Mer Méditerranée is an accelerator of business competitiveness and a powerful engine for growth in the maritime sector.

"Since 2009, Pôle Mer Méditerranée has asserted itself as an undisputed pioneer in the development of the floating offshore wind energy sector in the Mediterranean. Our ongoing commitment to Forum EnerGaïa reflects our unwavering support for our member companies and our determination to accelerate the ecological transition. This year, EnerGaïa's programme covers a number of subjects at the heart of our action programme (decarbonisation, protection of biodiversity, use of drones to support the sector, etc.), so it was a natural consequence that we strengthen our presence and our partnership with EnerGaïa."

www.polemermediterranee.com



POLE EMPLOI

Pôle emploi is a public body whose role is to support and advise companies on recruitment, and to welcome, inform, guide and support people seeking employment, training or career advice. Pôle emploi is responsible for prospecting the labour market and developing expertise in the changing nature of jobs and qualifications. It also pays benefits to jobseekers, on behalf of the body managing the unemployment insurance scheme and on behalf of the State.

"After a successful exhibition in 2022, Pôle emploi has decided to continue its partnership with EnerGaïa in 2023. For this year's event, it will share a stand with Cap emploi Hérault in the Employment/Training Pavilion, to talk to the companies present and advise them on their recruitment needs. A job dating event for positions based in the Hérault region is also being organised at EnerGaïa on 13 and 14 December for employers who have communicated their recruitment needs in advance."

www.pole-emploi.fr



Highlights

Opening plenary

YOUNG PEOPLE AND BUSINESSES AT THE HEART OF THE TRANSITION: IMPROVING HOW WE LIVE AND WORK TOMORROW



WEDNESDAY 13 DECEMBER 2023 FROM 11:00 TO 13:00

The younger generation will bear the full brunt of the effects of climate change, and it will be up to them to continue efforts to build a sustainable society. Part of this population has already let it be known that they refuse to work in businesses that contribute to destroying the environment. And yet, while businesses are big contributors to global warming through their products and their activities, they also have the power to mitigate it and take steps in the general interest. The green transition is thus also leading to major upheavals in the world of work. Our opening round table will address the desirable changes in work, the demands of young people and the meaning of a genuine corporate social responsibility, which a growing number of companies are already deploying.

Guests :



Dominique MÉDA

« The responsibility of businesses in climate change and its mitigation must be recognised and measured. »

Dominique Méda heads the Institut de Recherche Interdisciplinaire en Sciences Sociales (IRISSO Interdisciplinary Social Science Research Institute) at Paris-Dauphine University, and is a lecturer in sociology. Previously, she was research director at the Centre d'études de l'emploi (employment research centre) and led the chair 'Reconversion écologique, travail, emploi et politiques sociales (ecological reconversion, work, employment and social policy) at the Collège d'études mondiales. A producer at radio station France Culture, she hosts a podcast on working conditions. She also has a regular column on the changes in the world of work in the broadsheet daily Le Monde. Dominique Méda has undertaken a new project on the transition from a quantitative to a qualitative economy. How can we conceive prosperity without growth? What are new ways to define and distribute wealth? How can we turn ecological constraints into an extraordinary opportunity to transform our economic system and our relationship with work, while ensuring access to decent jobs?

Her latest works include *Le travail*, Presses Universitaires de France, 2022 ; *Le travail, Une valeur en voie de disparition ?*, Flammarion, 2021; *Une autre voie est possible*, with Eric Heyer and Pascal Lokiec, Flammarion, 2018.



Salomé SAQUÉ

« One of the most noteworthy aspects of the generation gap is the relationship young people have with work and choosing an occupation that means something to them. Money is no longer the main driver: time set aside for a private life, meaning and ethics have for many become decisive criteria. »

Salomé Saqué is a journalist and director of the Economics department of news website Blast. She is also the Economics and Society journalist on the French 5 TV show C Politique. She presents the France Info programme "Un degré de conscience" dedicated to environmental matters. In March 2023 Salomé Saqué brought out the book *Sois jeune et tais toi: Réponse à ceux qui critiquent la jeunesse*, published by Les Editions Payot.

Clémentine Schneidermann
Photo Credit :
Clémentine Schneidermann



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Julia FAURE

« To transition from a destructive economy to a positive impact one (i.e., which keeps within the « doughnut » of the nine limits of the planet, which reduces inequalities and poverty), all stakeholders must push in the same direction; Government, individuals, businesses. Employees lie at the intersection of these worlds, and therefore have a transformational power that they can bring to bear. »

Julia Faure is the co-Chair of the movement Impact France and also heads her own textile brand, Loom, dealing in locally produced clothing that she co-founded with Guillaume Declair. She also launched the NGO "En mode climat" which has 630 members and brings together around a hundred clothing brands. This NGO aims to change laws and mentalities to reform the textile sector, reduce the volume of clothing, encourage reuse and reshore production, to reduce the sector's carbon emissions.



TALKS ON SOLAR PV,

Photovoltaic power has always been a major component of Forum EnerGaïa, which is why the programme gives over a large space to the latest developments in this sector:



WEDNESDAY 13 DECEMBER FROM 14:00 TO 17:15

- « **Floating photovoltaic, a new sector emerges** »
A ROUND TABLE ON 13/12/2023 FROM 14:00 TO 15:30.
An update on the technical and environmental aspects of floating PV and its development prospects.
- « **Agrivoltaics: successfully marrying solar and agriculture** »
A ROUND TABLE ON 13/12/2023 FROM 15:45 TO 17:15.
The latest regulatory developments, feedback and debate on the use of farmland.

THURSDAY 14 DECEMBER ALL DAY

- « **Collective self-consumption and energy communities, a local dynamic** »
A ROUND TABLE ON 14/12/2023 FROM 9:30 TO 11:00.
A talk organised with the DERBI cluster, offering an update on community energy, drawing on case studies.
- « **PV carports, multipurpose solar** »
A WORKSHOP ON 14/12/2023 FROM 14:00 TO 15:00.
Benefits and use cases of solar carports for large and small car parks, combination with electric mobility.
- « **Rebuilding the european photovoltaic industry, the challenger** »
A WOKSHOP ON 14/12/2023 FORM 15:15 TO 16:30.
News on flagship projects in France, prospects in Europe and debates on support for the industry.



« RENEWABLES AND BIODIVERSITY: REDUCING ENVIRONMENTAL IMPACT DURING THE OPERATION OF FARMS »

A ROUND TABLE ORGANISED IN PARTNERSHIP WITH THE CEMATER CLUSTER, ON WEDNESDAY 13 DECEMBER FROM 14:00 TO 16:00.

While it is crucial as part of the fight against climate change, renewable energy may also make an impact locally on biodiversity. During the development of projects, taking biodiversity into consideration has thus become a central aspect of studies and thinking. How does this attention materialise in practice during the operational phase of wind and solar farms? This talk will look into the monitoring, adaptation measures and initiatives deployed, drawing on concrete examples.



« THE DECARBONISATION OF INTER-URBAN PUBLIC TRANSPORT »

A ROUND TABLE ON WEDNESDAY 13 DECEMBER FROM 16:00 TO 17:30.

In the area of transport, the first pillar in the transition is to reduce solo car use and thus trigger a shift towards public transport, car sharing or on-demand services. After that, the goal is to decarbonise the means of transport themselves. For services between towns, a range of solutions are being tested: hydrogen or battery electric trains (for use on non-electrified tracks), coaches running on bio-CNG or hydrogen, etc. The round table will cover the transport decarbonisation strategy in Occitania, the creation of new fuelling stations, and the technical and economic results of alternative powertrains.



« FLOATING OFFSHORE WIND POWER IN THE MEDITERRANEAN TO 2050: FROM PLANNING TO R&D »

A TALK ON WEDNESDAY 13 DECEMBER FROM 14:00 TO 16:30.

Developers, European wind turbine manufacturers and port infrastructure have a critical need for visibility in the area of marine wind power. Without forgetting citizens, who have legitimate questions about the future energy mix in France. The government has therefore undertaken an unprecedented exercise in wind power planning on all the country's seaboard. Target: 40 GW from the sea by 2050. What proportion of this will come from the Mediterranean? Where will the farms be located? This talk will dwell on the different aspects of this planning, and on the prospects that R&D has in store for floating offshore wind power, with contribution from experts from Norway, the Netherlands and Spain.



« ACCELERATION OF RENEWABLE ENERGY »

TWO ROUND TABLES ON THURSDAY 14 DECEMBER FROM 9:30 TO 11:00, THEN FROM 11:15 TO 12:45.

Renewable energy is gathering pace in Europe. In France, the « acceleration act » adopted in March should also enable it to be deployed more quickly. How does this acceleration happen in practice? A first round table will be dedicated to the implementation of acceleration zones in communities. The second round table will deal with the acceleration of grid connections to allow wind and PV farms to be created at the right pace between now and 2030 and beyond.



FORÊT ET CHANGEMENT CLIMATIQUE, QUELLES RESSOURCES POUR LE BOIS ÉNERGIE ?

TABLE RONDE LE JEUDI 14 DÉCEMBRE DE 9H30 À 11H00

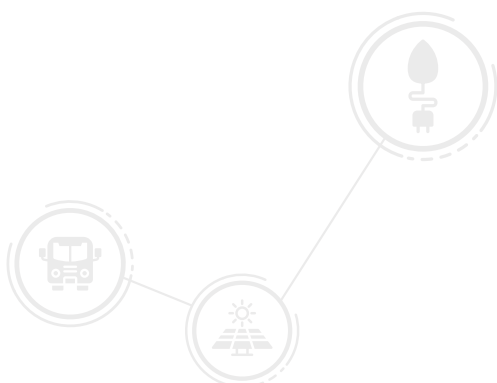
En raison du changement climatique, la forêt souffre. Le Secrétariat général à la planification écologique estime ainsi que la biomasse sera en tension, alors même que le bois-énergie reste indispensable pour se passer des énergies fossiles. Comment exploiter au mieux la forêt, dans un contexte de changement climatique, pour que le bois énergie reste une ressource renouvelable et durable ? Quelles sont les autres sources de bois-énergie disponibles, hors forêt ? Le panel d'experts que nous avons réuni tachera de répondre à ces questions.



HYDROGÈNE VERT : LE TEMPS DES GRANDS PROJETS

TABLE RONDE LE JEUDI 14 DÉCEMBRE DE 14H00 À 16H00

Avec la mise en place des mécanismes de soutien, des investissements massifs dans les projets de production et de consommation d'hydrogène vert vont pouvoir voir le jour. Cette table ronde sera l'occasion de dresser un état des lieux de la filière et de se pencher sur les projets européens de production d'hydrogène vert grâce à l'électricité de l'éolien offshore en Mer du Nord ou photovoltaïque en Espagne. Les intervenants exposeront aussi leurs plans sur l'usage industriel de cet hydrogène.



L'ÉCONOMIE CIRCULAIRE DES ÉOLIENNES









TABLE RONDE ORGANISÉE AVEC LE FORUM RÉGIONAL DE L'ÉCONOMIE CIRCULAIRE, LE JEUDI 14 DÉCEMBRE DE 14H00 À 16H00

Aujourd'hui, le taux de recyclage d'une éolienne est d'environ 90 %. Le vieillissement des premiers parcs, l'enjeu de repowering et la réglementation européenne amènent les professionnels du secteur à se saisir des sujets liés au cycle de vie d'un parc éolien et à développer des solutions pour les parties non valorisables à ce jour, notamment les pales en composite. Ces solutions portent sur tous les composants d'une éolienne et sur tous les axes de l'économie circulaire : la maintenance et la réparation, le démantèlement et la valorisation, le réemploi et la réutilisation, les solutions de recyclage des composites des pales, ainsi que l'écoconception. Cette conférence fera ainsi le tour de l'économie circulaire de l'éolien.



Conference program

WEDNESDAY, DECEMBER 13, 2023

11 am / 1 pm	Hall B4 GAÏA	Plenary conference	 Young people and companies at the heart of the transition: how can we live and work better tomorrow?
2 / 3.30 pm	Hall B4 GAÏA	Round table	 Floating photovoltaics: a new sector emerges.
2 / 3.45 pm	Hall B3 HEMERA	Round table	 How can we unlock the potential of green jobs in the energy transition?
2 / 4 pm	Hall B3 OURANOS	Round table	 Renewable energies and biodiversity: reducing the environmental impact during the operation of wind and solar power plants.
2 / 4.30 pm	Hall B3 HELIOS	Conference	 Floating offshore wind in the mediterranean sea in 2050: between planning and R&D.
3.45 / 5.15 pm	Hall B4 GAÏA	Round table	 Agrivoltaïsme, successfully combining solar energy and agriculture.
4 / 5.30 pm	Hall B3 HEMERA	Round table	 Decarbonising public transport in rural areas.
4.15 / 5.30 pm	Hall B3 OURANOS	workshop	 Ppa to finance new renewable projects: a take off in france?

■ Conference
 ■ workshop
 ■ Round table












All conferences taking place in the Gaïa and Helios rooms will be simultaneously translated.

MORE INFORMATION ON THE CONFERENCE PROGRAMME



Conference program

THURSDAY, DECEMBER 14, 2023

9.30 / 10.30 am	Hall B3 HEMERA	Workshop	 Energie solidaire, a fund to fight against energy poverty.
9.30 / 11 am	Hall B4 GAÏA	Round table	  Forests and climate change: what resources for wood energy?
9.30 / 11 am	Hall B3 HELIOS	Round table	  Collective self-consumption and energy communities, a local dynamic.
9.30 / 11 am	Hall B3 OURANOS	Round table	  How can renewable energies be accelerated?
10.45 / 11.45 am	Hall B3 HEMERA	Workshop	  Rural communities: how can public buildings be renovated?
11.15 am/ 12.15 pm	Hall B4 GAÏA	Workshop	  Drones for renewable energies.
11.15 am / 12.15 pm	Hall B3 HELIOS	Workshop	  Intelligent building management: saving energy, preparing for the future.
11.15 am / 12.30 pm	Hall B3 OURANOS	Workshop	  Biogas: what framework and what economic levers for methanisation?
11.15 am / 12.45 pm	Hall B3 HELIOS	Round table	  Solutions for speeding up the connection of renewable installations.
12 / 1 pm	Hall B3 HEMERA	Workshop	  Installing a heat pump: best practice.
2 / 3 pm	Hall B4 GAÏA	Workshop	  Photovoltaic for parking lots, multifunctional solar energy.
2 / 3.15 pm	Hall B3 HEMERA	Workshop	  Decarbonising industry and reducing energy bills.
2 / 3.30 pm	Hall B3 OURANOS	Workshop	  Geothermal energy: new resources to help projects emerge.
2 / 4 pm	Hall B3 HELIOS	Round table	  Green hydrogen: time for major projects.
2 / 4 pm	Hall B3 HELIOS	Round table	  The circular economy of wind turbines.
3.15 / 4.30 pm	Hall B4 GAÏA	Round table	  Rebuilding the european photovoltaic industry, the challenge.

 Conference  workshop  Round table



All conferences taking place in the Gaïa and Helios rooms will be simultaneously translated.

**MORE INFORMATION ON
THE CONFERENCE PROGRAMME**



Exhibitors' conferences and pitches program

WEDNESDAY, DECEMBER 13, 2023

10 / 10.20 am	Hall B1 Sustainable Building Pavilion	Exhibitor pitch	Hypervision: at the heart of operational performance.
10.45 / 11.45 am	Hall B3 Pyrenees Room	Exhibitor workshop	Storage in saint-avold and europe's largest floating solar farm: focus on two innovative projects.
11 / 11.20 am	Hall B1 Sustainable Building Pavilion	Exhibitor pitch	A rush to self-consumption?
11 / 11.30 am	Hall B2 Pôle DERBI Pavilion	Exhibitor pitch	Law to accelerate the production of renewable energy: what does it mean for local and regional authorities?
11 / 11.30 am	Hall B2 CEMATER Pavilion	Exhibitor pitch	Development is good, respecting biodiversity is better!
11.30 / 11.50 am	Hall B1 Sustainable Building Pavilion	Exhibitor pitch	Executive salary barometer 2023.
11.30 / 12.30 pm	Hall B2 CEMATER Pavilion	Exhibitor pitch	Presentation and official signing of the agrivoltaics charter.
11.30 / 11.50 am	Hall B3 Employment & Training Pavilion	Exhibitor pitch	Energy transition and new skills.
2 / 3 pm	Hall B3 Pyrenees Room	Exhibitor workshop	Agrivoltaics: how to adapt the size of a project to farming practices? The particular case of arable farming.
2.30 / 2.50 pm	Hall B1 Sustainable Building Pavilion	Exhibitor pitch	Collective self-consumption to promote short energy circuits.
2.30 / 2.50 pm	Hall B1 Transport & Mobility Pavilion	Exhibitor pitch	The first solar charger with attached cable and adventure-compatible plugs.
2.30 / 3 pm	Hall B2 CEMATER Pavilion	Exhibitor pitch	Supporting the decarbonisation of agricultural activity as part of an agrivoltaic project.
3 / 3.20 pm	Hall B1 Sustainable Building Pavilion	Exhibitor pitch	Ecojoko, the self-consumption assistance tool.
3 / 3.30 pm	Hall B2 Pôle DERBI Pavilion	Exhibitor pitch	Opportunities linked to intelligent vehicle charging: use cases and technological challenges.
3 / 3.30 pm	Hall B2 CEMATER Pavilion	Exhibitor pitch	Flex'ener, self-consumption as seen by dev'ener.
3.15 / 4.15 pm	Hall B3 Mediterranee Room	Exhibitor workshop	How can financing your equipment contribute to your customers' energy transition?
3.15 / 4.15 pm	Hall B3 Pyrenees Room	Exhibitor workshop	Plan, connect, optimise: how the renewable energy acceleration act is being deployed.
3.30 / 3.50 pm	Hall B1 Sustainable Building Pavilion	Exhibitor pitch	Let's accelerate towards low-carbon mobility.
3.30 / 3.50 pm	Hall B1 Transport & Mobility Pavilion	Exhibitor pitch	Hybrid solar air conditioning : no need to give up comfort to save the planet (and your purchasing power!)
3.30 / 4 pm	Hall B2 Pôle DERBI Pavilion	Exhibitor pitch	Combining hydrogen and CO2.
3.30 / 4 pm	Hall B2 CEMATER Pavilion	Exhibitor pitch	Energylab: analysis of bepos data.
4 / 4.20 pm	Hall B1 Sustainable Building Pavilion	Exhibitor pitch	Geothermal energy, sustainable energy under our feet.
4 / 4.30 pm	Hall B2 Pôle DERBI Pavilion	Exhibitor pitch	Real-time 3d visualization of renewable energy projects.
4 / 4.30 pm	Hall B2 CEMATER Pavilion	Exhibitor pitch	Solar integration in construction and architecture: solar bim.
4 / 4.50 pm	Hall B1 Pavillon Transport & Mobilité Durables	Exhibitor pitch	Awards ceremony for the "transport decarbonation challenges in occitania" competition.
4.30 / 4.50 pm	Hall B1 Sustainable Building Pavilion	Exhibitor pitch	Geoenergy, infinite and local energy - celsius energy.

Exhibitors' conferences and pitches program

WEDNESDAY, DECEMBER 13, 2023

4.30 / 5 pm	Hall B2 Pôle DERBi Pavilion	Exhibitor pitch	Energy storage and pilot self-consumption, what are the benefits?
4.30 / 5 pm	Hall B2 CEMATER Pavilion	Exhibitor pitch	Opinion, the unfinished battle for renewable energies.
5 / 5.30 pm	Hall B2 Pôle DERBi Pavilion	Exhibitor pitch	Collective self-consumption: what are the new prospects?

THURSDAY, DECEMBER 14, 2023

9.30 / 10.30 am	Hall B3 Mediterranee Room	Exhibitor workshop	Hybrid power plants: a revolution in the world of renewable energy development? Challenges and business model for the french market.
10.30 / 10.50 am	Hall B1 Sustainable Building Pavilion	Exhibitor pitch	Executive salary barometer 2023.
10.30 / 11 am	Hall B2 CEMATER Pavilion	Exhibitor pitch	Co-existence between fishing and floating wind turbines - feedback.
10.45 / 11.45 am	Hall B3 Mediterranee Room	Exhibitor workshop	Montpellier, a renewable energy accelerator.
10.45 / 11.45 am	Hall B3 Pyrenees Room	Exhibitor workshop	Bio-waste: a new source of green gas?
11 / 11.20 am	Hall B1 Sustainable Building Pavilion	Exhibitor pitch	Collective self-consumption to promote short energy circuits.
11 / 11.30 am	Hall B2 CEMATER Pavilion	Exhibitor pitch	Training at the heart of floating wind project development.
11.30 am / 12 pm	Hall B2 Pôle DERBi Pavilion	Exhibitor pitch	Csr and the low-carbon economy.
11.30 am / 12 pm	Hall B2 CEMATER Pavilion	Exhibitor pitch	Milan royal versus wind turbines? Detection technologies play an effective part in resolving the conflict!
12 / 12.30 pm	Hall B2 CEMATER Pavilion	Exhibitor pitch	Eolymer, a regional project led by experts in floating wind turbines.
12.30 / 12.50 pm	Hall B1 Sustainable Building Pavilion	Exhibitor pitch	Gtb, intelligent buildings: a lever for savings.
2 / 5 pm	Hall B3 Mediterranee Room	Exhibitor workshop	5th scientific and technological forum of france energies marines.
2.30 / 2.50 pm	Hall B1 Sustainable Building Pavilion	Exhibitor pitch	A rush to self-consumption?
2.30 / 2.50 pm	Hall B1 Pavillon Transport & Mobilite Durables	Exhibitor pitch	The first solar charger with attached cable and advenir-compatible plugs.
2.30 / 3 pm	Hall B2 Pôle DERBi Pavilion	Exhibitor pitch	Carbon assessment applied to renewable energy production projects.
2.30 / 3 pm	Hall B2 CEMATER Pavilion	Exhibitor pitch	How does the cleantech valley support agricultural projects, particularly agrivoltaics?
3 / 3.20 pm	Hall B1 Sustainable Building Pavilion	Exhibitor pitch	Hybrid solar air conditioning : no need to give up comfort to save the planet (and your purchasing power!)
3 / 3.30 pm	Hall B2 CEMATER Pavilion	Exhibitor pitch	Recruitment yoga... In the renewable energy sector.
3 / 3.30 pm	Hall B2 Pôle DERBi PavILLION	Exhibitor pitch	Emergence of methanisers in the agricultural sector.
3.30 / 3.50 pm	Hall B1 Sustainable Building Pavilion	Exhibitor pitch	Geoenergy, infinite and local energy - celsius energy.

3 pavilions for 3 major challenges

The **building** and **transport** sectors account for a large proportion of energy consumption that industry, business and local authorities are seeking to control. Once again this year, these two fundamental sectors have their own dedicated pavilions.

Another pavilion is that of **employment and training** where Pôle emploi, Cap emploi Hérault, the Occitanie Regional Council and training organisations will be able to dialogue with businesses and advise them on their recruitment needs.

SUSTAINABLE BUILDING PAVILION

HALL B1

Exhibitors will present tangible solutions to reduce energy bills through targeted content which takes into account the market's realities and outlook. This year, there is a special focus **on energy performance and self-consumption**. The partnerships with CAPEB and CMA (both showing in the Sustainable Building Pavilion) illustrate the importance of the flagship sector of building and civil works.

This year, the Forum furthermore offers **a special visitor trail** enabling those interested to meet professionals active in sustainable buildings.

Sustainable Building Pavilion exhibitors:

- AMTC
- BLULAR
- CAPEB
- Chambre de Métiers et de l'Artisanat de l'Hérault
- ECOJOKO
- EXPECTRA
- LANCEY Energy Storage
- LIKEWATT
- NDC 26
- PcVue SCADA Software for monitoring and control
- SERENYSUN



SUSTAINABLE TRANSPORT AND MOBILITY PAVILION

HALL B1

EnerGaïa is hosting a pavilion dedicated to sustainable transport and mobility for the second consecutive year, evidencing the interest that the organisers have in this major challenge.

With subjects such as intermodality and new fuels, here too, tangible solutions are offered to businesses, industry and local authorities to help them decarbonise their transport.

Sustainable Transport and Mobility Pavilion exhibitors:

ALSTOM HYDROGENE

- CLHYNN
- LEKTRI.CO CHARGING POINT MANUFACTURER
- SAFRA
- TEMLab
- TENLOG
- VELO VALLEE, CLUSTER OCCITANIE



EMPLOYMENT / TRAINING PAVILION



HALL B3

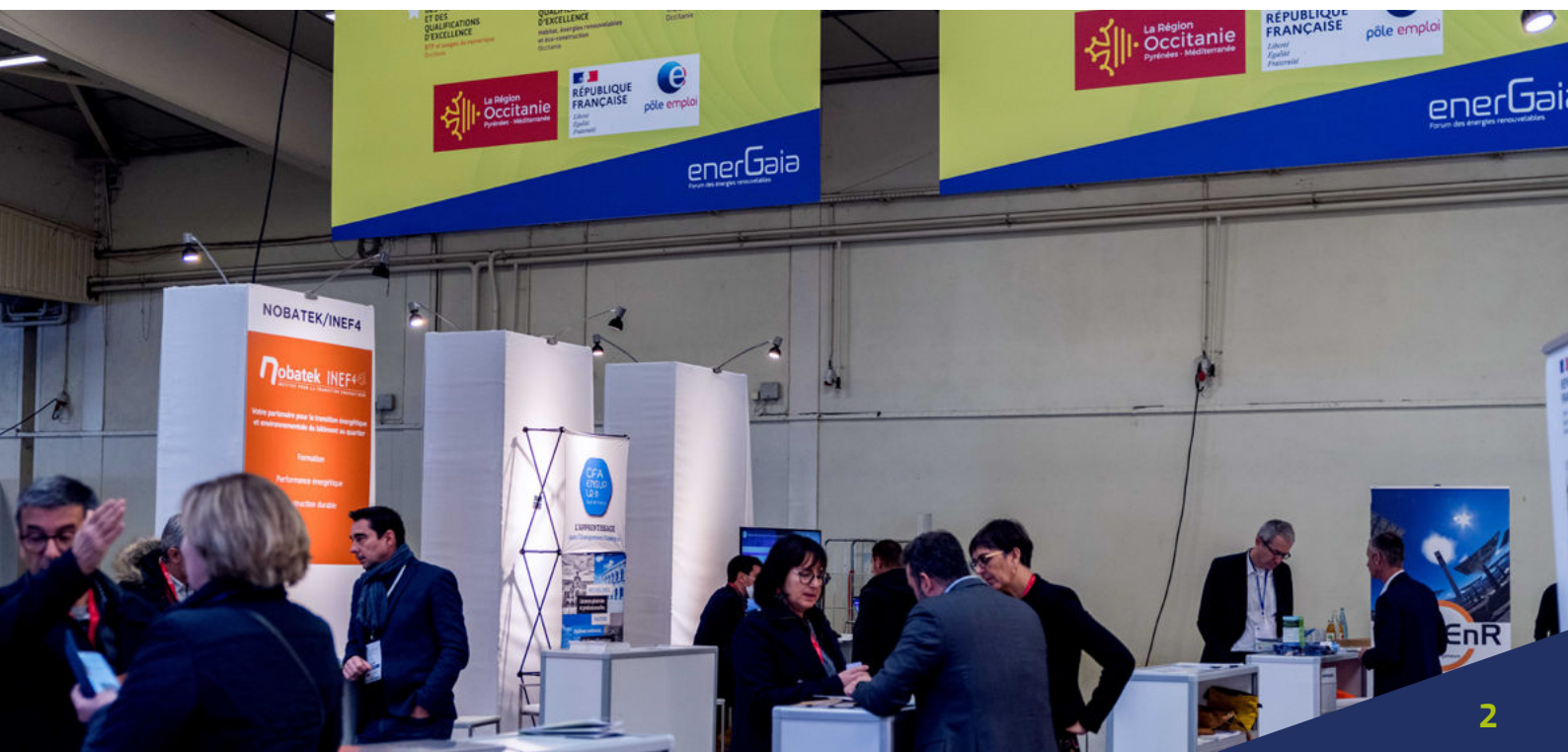
Pôle emploi, Cap emploi Hérault and **the Occitanie Regional Council** are exhibiting in the Forum's Employment and Training area on 13 and 14 December. Advisers will be on hand throughout the show to provide information, advice on grants and new hire measures and on solutions tailored to recruitment needs.

An additional service offer is available for exhibiting companies, with the **Job Dating area**. Pôle emploi and Cap emploi Hérault will organise recruitment sessions for their new talent searches in the Hérault department.

The Employment / Training pavilion will also welcome several establishments with renewable energy specialities.

Employment / Training Pavilion exhibitors

- **BTP CFA**
- **GRETA CFA**
- **Campus HEREC** (Campus of disciplines and qualifications of excellence in housing, renewable energy and construction in Occitania).
- **POLE EMPLOI / CAP EMPLOI HÉRAULT**
- **REGION OCCITANIE: OCCITANIE REGIONAL COUNCIL**
- **SUP'ENR**



New from exhibitors

AZÉLAN

The company **Azelan** has been working for 30 years as a fitter and joiner for canopies (for both private and public sectors) and has specialised in wood construction. At EnerGaïa 2023, Azelan will present its wooden PV car parking canopies.

Advantages: guaranteed aesthetic appeal, natural product, material origin: 100% France, made in France, very low carbon footprint (25 times lower than steel).

Location: **EXTB2 / 04**

BREMAS ERSCE S.P.A.

The Italian company **Bremas** has over 50 years of experience specialising in the design and manufacture of cam switches, disconnect switches, position and safety switches, power tool switches, relay sockets and push buttons.

At EnerGaïa 2023, Bremas will present the most powerful and compact DC disconnect switch for PV applications, capable of breaking 60 A at 1000 Vdc, or 30A at 1500Vdc, in only 45 mm (1,77") of total depth.

HALL B4 / STAND C14

CALIBSUN

Specialising in the capitalisation of sunshine forecasting data, the company Calibsun has developed a unique algorithm making it possible to simultaneously combine, process and weight weather forecasting models, satellite imagery and on-site data from solar farms, thanks to artificial intelligence.

The multi-horizon forecasting solution developed by Calibsun and presented at EnerGaïa 2023 helps operators anticipate and optimise solar power generation, facilitate its transfer to the grid, and develop storage.

HALL B4 / STAND A29

CHEMITEK

The Portuguese firm **Chemitek** specialises in solar panel protection coatings and the streamlining of cleaning processes. At EnerGaïa 2023, Chemitek will present its PRA solution (paint removal agent) which helps address contamination caused by various types of paint. Biodegradable and bearing TUV Süd certification, its mild formula is intended to be safe for solar panels and risk-free for the people applying it.

HALL B4 / STAND C02

DF ELECTRIC

Specialising in the design and manufacture of industrial and electronic protection devices and equipment, **DF Electric France** will take advantage of EnerGaïa 2023 to present its new fuse solutions for 1500VDC and 800VAC solar farms, including its new AC protection range for 800V inverters and its NH gS ultrafast fuses which make it possible to reduce connector cable thickness.

HALL B2 / STAND B75

EQUANS

To meet the requirements for large-scale, integrated, high-performance solar and storage solutions covering the entire value chain, from design to operation, **Equans** has launched Equans Solar & Storage.

Its creation is part of Equans' overall ambition to decarbonize energy production and significantly increase the deployment of PV power in its grids.

HALL B2 / STAND D68

ETURNITY AG

At EnerGaïa 2023, **Eternity** will present the latest features of its Eternity Expert software made for installers to sell and plan PV systems: the integration with K2 Base and the 3D layouting. Discover the new Partner Program modular solution, designed for distributors and manufacturers, which enables the digitalization of information flows with partners and boosts customer loyalty by offering premium services.

HALL B4 / STAND B01

FEEDGY

Feedgy launches a new module dedicated to agrivoltaics: the only photovoltaic panel designed to combine gains in agricultural production with gains in electricity production. It incorporates photonic technology that adapts the solar spectrum to the needs of plants, thereby boosting crop production. It also incorporates the best bifacial heterojunction cells to optimize PV generation over the long term.

HALL B2 / STAND C53

New from exhibitors

HAUFF TECHNIK

A manufacturer of sealing systems for cables, pipes and building entries, **Hauff-Technik** will be presenting its new HSI150 KMA system:

- Thanks to its foldable sleeve technology, no additional pipe connection components are required,
- Elastic, stable connection thanks to increased insertion depth, even if the cable protection sleeve is deflected,
- Internal connection option for system seals for cables.

HALL B4 / STAND C27

LEKTRI.CO

Specialising in home charging systems for electric vehicles, **LEKTRI.CO** will be presenting 1P7K T2S, the first solar-powered charging point with an attached 5 m cable and Type 2 connector with cap. The charging point is CE, IEC 61851 and 62196 certified, and complies with NF 15-100 and ADVENIR regulations. Using a home charging point with an attached cable reduces costs, and makes car recharging and therefore access to electric cars more accessible.

HALL B1 / STAND C21

LIKEWATT

The start-up **Likewatt** has developed the software solution Optimize which enables green transition professionals to optimise the sizing of their self-consumption projects. Presented at EnerGaïa 2023, the Optimize software now includes the collective self-consumption module.

Users thus now have the possibility of studying their collective self-consumption projects by optimising the sizing of PV installations and the choice of meters used in the operation.

HALL B1 / STAND C18

OPTIMUM TRACKER

Optimum Tracker is an expert in the optimization of agri-photovoltaic panels. Agrivoltaics combines solar energy production with agriculture, perfecting land use while contributing to a more sustainable environment. Optimum Tracker's innovations include «AgriTrack One» for livestock, «AgriTrack Two» for field crops, and «AgriTrack Trees» for vegetation.

HALL B3 / STAND C63

Find out the innovative solutions from exhibitors on the **EnerGaïa** Forum website:

www.energaia.fr/en

SAFRA

Presented at EnerGaïa 2023, the Hycity® is a zero-emission, full-hydrogen bus. Offered in a 12m model with a flat floor throughout, it comes in 2 or 3-door versions, and will soon be available in an 18m model. Featuring the latest technologies and a sleek design, this bus rounds out **SAFRA's** catalogue of carbon-free mobility solutions.

Transport & Sustainable mobility pavilion.

HALL B1 / STAND C26

SOLARGIS

Solargis develops and operates platforms enabling fast access to photovoltaic installation data. At EnerGaïa 2023, Solargis will present its new Solargis Analyst solution, where data is enhanced with increasingly useful parameters: Albedo for bifacial technology (ALB). Minimum average operating temperature for design and fuse sizing (TLEO). Precipitation for soiling (PREC). Snow Day Water equivalent for unavailability (SNOWD). 1-5 minute historical data for climate variability (1min).

HALL B2 / STAND E76

SWEEN ÉNERGIES & MOBILITÉ

Specialising in the deployment of collective self-consumption projects, the company **Sween** will present its new SweenCharge® system which continuously analyses power generation and demand at various energy community levels and regulates the instant charging of the associated vehicles accordingly to optimise the use of the energy resource available.

Comprising a connected gateway equipped with real-time collective AI and a monitoring application, the SweenCharge® system is the first ever collective smart charging system.

HALL B2 / STAND D70

TRACE SOFTWARE

Trace Software, a publisher of software for building and energy professionals, has developed expertise in the design of electrical and photovoltaic installations. At EnerGaïa 2023, Trace Software will present its new photovoltaic application archelios™ PRO which supports the design, simulation and analysis of PV projects with a focus on self-consumption in its brand new version. With archelios™ PRO, users can produce more accurate and faster design studies thanks to new hardware accounting capabilities and input functionalities for project consumer data.

HALL B2 / STAND B27

An eco-friendly event



SPL Occitanie Events, the organiser of Forum EnerGaïa, engages in an eco-friendly approach that has been certified ISO 20121 by AFNOR since January 2021 for all its activities.



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 :

- A reduction in the consumption of energy and water (through investment in buildings) and paper.
- Limitation and control of waste generated by the organisation of the event (reduction, reuse and recycling of waste).
- The promotion of green transport modes.
- The introduction of responsible catering.
- Initiatives to raise the awareness of partners, exhibitors and the public to environmental issues.

In practice, Forum EnerGaïa undertakes to :

ADOPT RESPONSIBLE COMMUNICATIONS AND RAISE STAKEHOLDER AWARENESS



- Optimisation and printing of all communications materials on recycled and recyclable paper, by a company holding the Imprim'Vert label.
- Raising awareness of the eco-friendly approach, and sharing of tips, among all our partners, suppliers, visitors and exhibitors.
- Promoting the commitment of our suppliers and other responsible organisations working alongside us in the Occi'gene programme.
- Screening of awareness videos on eco-friendly reflexes.
- Creation of a mobile app for the event to reduce the amount of printed visitor guides printed, and to replace them entirely in 2024.

OFFER RESPONSIBLE CATERING OPTIONS IN ASSOCIATION WITH TRAITEUR GRAND



- A seasonal and local food offering.
- A food offering that is both healthy (attention paid to fat, salt and sugar content) and diversified, including at least one vegetarian menu.
- The implementation of a system to avoid all forms of waste.
- Raising public awareness of responsible eating.

REDUCE WASTE AND INCREASE THE RECOVERY OF THAT WHICH IS UNAVOIDABLE



- Removal of carpeting in the aisles, saving 5,000 sqm of waste material.
- Micro-filtered water dispensers installed, two of which available to the public at this event (Hall B2 and Reception Hall B).
- Installation of single-stream waste sorting bins and ÉcoMégot cigarette butt collectors for visitors across the entire event complex.
- Badge holders and lanyards are collected at the exits and reused in future editions.

Choice of reusable or recyclable raw materials, structures and materials for fitted stands.

- Visitors invited to use their own earbuds for quiet talks.
- Provision of 4-stream waste sorting bins (glass, wood, recyclable waste, other waste) for exhibitors, and collection of organic waste in catering outlet food preparation areas.
- Support for best sorting practices with two waste sorting ambassadors on hand.
- Eradication of plastic bottles in food and drink outlets. In takeaway outlets (snack bar and food truck) selling plastic bottles, plastic screw tops are recovered and donated to the charity Ecophénix to be transformed into new objects.
- Exhibitors are encouraged to eco-design their stand.

OPTIMISE ENERGY AND FLUID CONSUMPTION



- Use of LED light bulbs.
- Buildings are fitted with taps and flush systems with sensors.
- Lights switched off at the end of the day at the event and at the end of assembly / dismantling.
- Exhibitors are invited to switch off their stand lights at the end of the day.

ENCOURAGE SUSTAINABLE MOBILITY



- Creation of a parking facility for bikes and e-bikes.
- Reinforcement of signage showing directions to tram stop.
- Improvement of public transport (shuttles) from Sud de France station / Airport / Tram to Exhibition grounds.
- Possibility of calculating the carbon footprint of your journey with the carbon dioxide impact by ADEME on <https://impactco2.fr/transport>.
- Encouragement to use the Klaxit for residents of Montpellier Méditerranée Métropole and the Pays de l'Or region, or Togetzer for inhabitants of other municipalities (on website in practical information section).

REDUCE OUR IMPACT ON BIODIVERSITY



- Decoration with Mediterranean ornamental species that can be replanted or reused.
- Use of eco-friendly cleaning products, in association with the company Nicollin.
- **NEW THIS YEAR** : visitors and exhibitors will be able to enjoy a planted plaza in the middle of the event. This is the result of a general space refurbishment plan, with soil de-sealing and the disconnection of rainwater in the very heart of the event complex.

Exhibitor best practices and tips for the eco-friendly visitor can be consulted on the website : www.energaia.fr/en/

TOGETHER, LET'S ADOPT ECO-FRIENDLY REFLEXES!

Practical information

A trade-only event by the Occitanie Pyrénées-Méditerranée regional authority, organised by SPL Occitanie Events.



DATES & OPENING HOURS

- **Wednesday 13 December 2023:** 9 am to 6 pm
- **Thursday 14 December 2023:** 9 am to 5 pm



VENUE : MONTPELLIER EXHIBITION CENTRE

Route de la Foire 34470 Pérols

- **Receptions:** Halls B2 & B3
- **Exhibition:** Halls B1, B2, B3 and B4
- **Conference rooms:** Halls B3 & B4



FOOD & DRINK

- **RESTAURANT** in Hall B1 and **VIP RESTAURANT** on upper mezzanine
 - **3 SNACK BARS** across Halls B2 & B4 Outdoors
 - **1 FOOD TRUCK** on Place Jacques Coeur
- Menus available on website:
www.energaia.fr/en/practical-information/



Free LUGGAGE ROOM AND CLOAKROOM

- **At receptions:** Halls B2 & B3



Getting to Forum EnerGaïa:

Free PARKING

- Car parks A and B of Exhibition Centre
- PRM car park - B
- Bike parking A and B



CARPOOLING

- For inhabitants of Montpellier Méditerranée Métropole and Pays de l'Or region, the **KLAXIT** carpooling app is recommended.
 - For residents of other areas, the **TOGETZER** app is a possibility.
- For further information, visit the dedicated page on our website: www.energaia.fr/en/practical-information/ (under «By car»).



TAXI

- Airport taxi phone: +33 (0)4 30 96 69 66



PHV (private hire vehicle)

- CAP VTC: +(33)7 69 75 22 94
- CALLMOVE VTC: +(33)6 21 81 23 68



BY RAIL

- From Montpellier Sud de France station:
A regular and free shuttle running according to train times will take you to and from the exhibition centre, reception Hall B2 - from 8 am to 8 pm (on 13/12) and from 8 am to 7 pm (on 14/12).
- From Montpellier Saint Roch station (Montpellier city centre): take tram line 3 towards Pérols-Étang de l'Or, get off at Parc Expo and walk to reception in Hall B3.



TRAM

- Line 3 - towards Pérols-Étang de l'Or - Parc Expo stop - access by foot to reception in Hall B3.



BY AIR

- From Montpellier Méditerranée airport:
A regular and free shuttle running according to flight times will take you to and from the exhibition centre, reception Hall B2 - from 8 am to 8 pm (on 13/12) and from 8 am to 7 pm (on 14/12).



For any queries, please contact us:

+33 (0)4 67 17 68 17

energaia.info@spl-occitanie-events.com

www.energaia.fr/en/ - Follow us :   

La société **SPL Occitanie Events**, organisatrice du Forum EnerGaïa, est engagée dans une démarche éco-responsable. **Elle est certifiée ISO 20121 par l'AFNOR** depuis janvier 2021 pour l'ensemble de ses activités.

SPL Occitanie Events, the organiser of Forum EnerGaïa, engages in an eco-friendly approach **that has been certified ISO 20121 by AFNOR** since January 2021 for all its activities.



enerGaia

Forum des énergies renouvelables
Renewable energy Forum

UN ÉVÉNEMENT DE :
AN EVENT OF :



PARTENAIRES OFFICIELS
OFFICIALS PARTNERS



PARTENAIRES PRESSE
MEDIA PARTNERS



RENDEZ-VOUS LES 11 ET 12 DÉCEMBRE 2024
See you in 2024, December 11th – 12th

Suivez-nous / Follow us   

www.energaia.fr