



IOWTC 2025

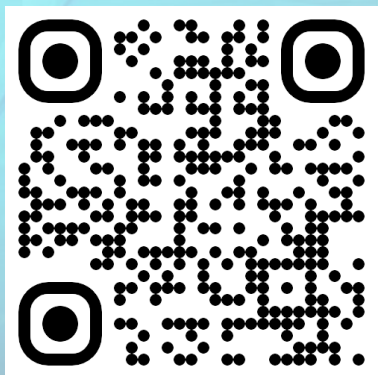
TOULON FRANCE

6TH INTERNATIONAL OFFSHORE WIND TECHNICAL CONFERENCE

October 27-29, 2025

Program

<https://event.asme.org/IOWTC>



EVOLLEN
Energies
Aujourd'hui & Demain

**UNIVERSITÉ DE
TOULON**

PÔLE mer
MÉDITERRANÉE

**FRANCE
ENERGIES
MARINES**

ASME
SETTING THE STANDARD

Welcome to IOWTC 2025!

Welcome to France and to IOWTC 2025!

Dear participants, authors, partners, sponsors, colleagues, and friends,

It is our great pleasure to welcome you to France and to the 2025 International Offshore Wind Technical Conference (IOWTC), proudly organized by EVOLEN for the American Society of Mechanical Engineers (ASME).

As the offshore wind industry continues to grow at a record pace across the globe, IOWTC has become a cornerstone for bringing together researchers, engineers, and professionals from industry, academia, and government. This year's conference promises to be no exception with more than 100 papers and presentations submitted so far.

IOWTC 2025 will focus on the latest technological advancements in offshore wind turbine deployment, and integration. Key topics include structural and hydrodynamic modelling, floating wind turbine systems, control strategies, grid integration, and new materials and manufacturing methods.

The state of the industry today reflects both incredible momentum and dynamic challenges. Offshore wind is at the forefront of the global clean energy transition, with ambitious deployment targets being set in several countries. Floating offshore wind is moving from pilot projects to commercial-scale implementation, while supply chain development and cost reduction continue to be pressing themes.

We are thrilled to host you in Toulon University, France, a beautiful region located on the Mediterranean coast, known for its beautiful views. France is a country with a growing offshore wind portfolio and a strong commitment to renewable energy innovation, aspiring to achieve target goals of 18 GW of offshore wind capacity by 2035. This year's conference will not only provide a platform for technical exchange and collaboration, but also offer a taste of the rich culture, and hospitality of our host country. We look forward to the insightful discussions, groundbreaking research, and new partnerships that IOWTC 2025 will inspire.

Bienvenue et à très bientôt !

Sincerely,



Emmanuel Vullierme
Conference Chair



Marc Cahay
Technical Program Chair



Blandine Joncour
Local Organizing
Committee Co-Chair



Arthur Serment
Local Organizing
Committee Co-Chair

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Conference Summary

- **IOWTC 2025** will be held at **Toulon University- Faculty of Law**.
- **Monday the 27th of October** : A **Technical Visit** will happen at **IFREMER-La Seyne sur Mer** and **OCEANIDE** (14:00-17:00) followed by a **Welcome Reception** at **Toulon University** (17:00-19:00).
- **Tuesday the 28th of October** and **Wednesday the 29th of October** at **Toulon University**:
 - **Welcome to the Conference** will take place from 8:30-9:00
 - An **Opening Ceremony** will be held on the 28th of October from 9:00-9:30. Followed by 3 consecutives **Keynotes** from 9:30-10:30.
 - 3 **Keynotes** will follow the welcome on the 29th of October from 9:00 to 10:00
 - **Coffee/Tea Breaks** will be held from on the
 - 28th of October from 10:30-11:00 and 16:00-16:30
 - 29th of October from 10:00-10:30 and 14:30-15:00
 - **Lunch** will be held on the:
 - 28th of October from 13:00-14:00.
 - 29th of October from 12:00-13:00.
 - **Technical Sessions** will be held on the:
 - 28th of October:
 - TS1: 11:00-13:00
 - TS2: 14:00-15:45
 - TS3: 16:30-18:00
 - 29th of October:
 - TS1: 10:30-12:30
 - TS2: 13:30-15:30
 - TS3: 16:00-18:00
- **Conference Banquet** will be organized on the **28th of October** at **Palais du Commerce et de la Mer: First Floor** from 20:00 to 22:00.
- **Closing Ceremony & Awards** will take place on the **29th of October** at **Toulon University** from 18:00 to 18:15.
- For **directions, parking, and campus information**:
<https://maps.app.goo.gl/aG8XgqoHCRVghet69>

Venue - Conference

Toulon University (Faculty of Law)

Located in the heart of the French Riviera, the University of Toulon (UTLN) has been a cornerstone of academic excellence since its founding in 1968. Offering over 100-degree programs spanning science, technology, arts, humanities, and law, UTLN places strong emphasis on interdisciplinary research and international cooperation. Its three campuses—La Garde, Toulon city center, and Draguignan—provide modern facilities including five libraries, multimedia labs, and vibrant student hubs. UTLN is home to five



major research institutes, with notable innovation in marine science, cybersecurity, and entrepreneurship, backed by national and European support. With partnerships across 150+ institutions worldwide, it welcomes students from around the globe and offers multilingual resources, academic exchanges, and summer programs. Dedicated to preparing future leaders and fostering cultural diversity, UTLN is a gateway to global opportunity.

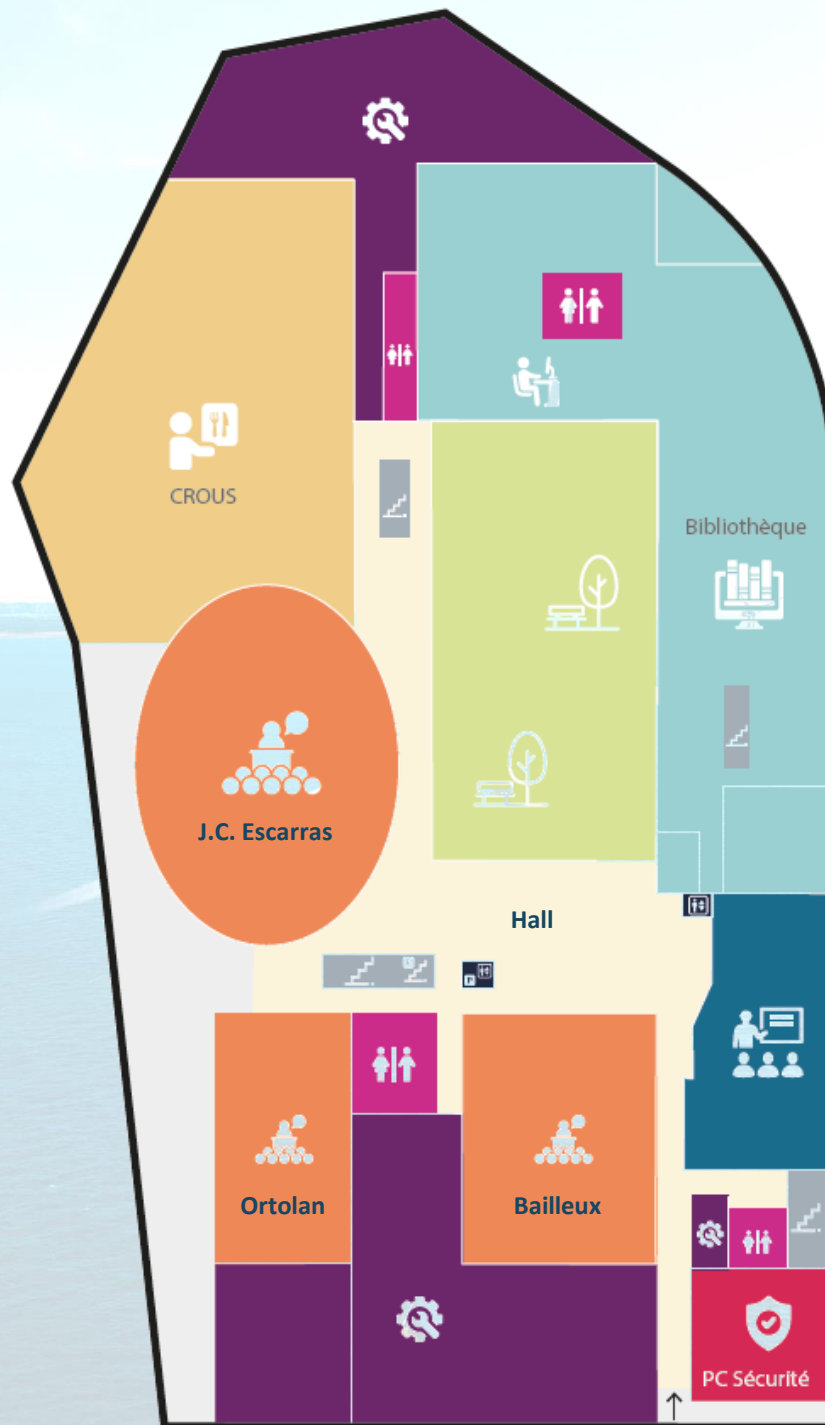
The university also boasts a dynamic cultural scene. Students benefit from a wide range of extracurricular activities, including sports clubs, debate societies, and volunteer programs, fostering a well-rounded educational experience. UTLN's commitment to sustainability is evident through its green campus initiatives, promoting eco-friendly practices and renewable energy projects. With a strong alumni network and career services, graduates are well-equipped to excel in competitive job markets worldwide. Whether pursuing academic excellence or personal growth, UTLN offers an inspiring environment to thrive.

The Conference will be happening at University of Toulon where several events will occur:

- Registration
- Coffee/Tea Breaks
- Lunch
- Keynotes
- Technical Sessions

Address: University of Toulon ,35 Av. Alphonse Daudet, BP 1416,83056 Toulon Cedex, France

Faculty of Law map with room location:



Venue - Technical Tours

27th October Afternoon

La Seyne sur mer- IFREMER

Located in the bay of Toulon, a strategic position for access to deep waters, the site of La Seyne-sur-Mer is one of Europe's leading scientific ports. With its 400 meters of quay, it can accommodate the vessels of the French Oceanographic Fleet operated by IFREMER and personnel from Genavir, a subsidiary of the Institute responsible for operating them.

It also has test tanks and hyperbaric chambers for testing and implementing underwater equipment and systems. It also has a virtual reality and augmented reality hall for telescience and digital development activities. It incorporates the European Centre for Underwater Technologies (CETSM), a leading centre for deep underwater intervention at the international level.

Development and implementation of underwater technologies:

- Engineering of manned, remotely operated, and autonomous deep-sea vehicles
- Positioning, robotics, acoustics and optics, data processing, artificial intelligence
- On-board computer, electrical and electronic systems
- Intervention engineering

Environmental observation and monitoring:

- Marine biodiversity
- Ecosystem resilience and restoration
- Contaminants, waste and pathogens at sea
- Ecological engineering
- Environmental modelling and scenarios

Address: Zone Portuaire de Brégaillon, 83500 La Seyne-sur-Mer



La Seyne sur mer- OCEANIDE

OCEANIDE is an independent SME based in southern France. For over 25 years, it has operated the South France Ocean Basin, a world-renowned test facility specialized in hydrodynamic model testing.

The facility is particularly suited to:

- Floating and bottom-fixed offshore wind turbines (FOWT, FOSS)
- Complex marine operations
- Research on mooring systems and power cables

Key features:

- Simultaneous emulation of waves, currents, and wind
- Adjustable water depth (up to 5 m)
- Significant dimensions ensuring minimal wall effects and cost-effective testing

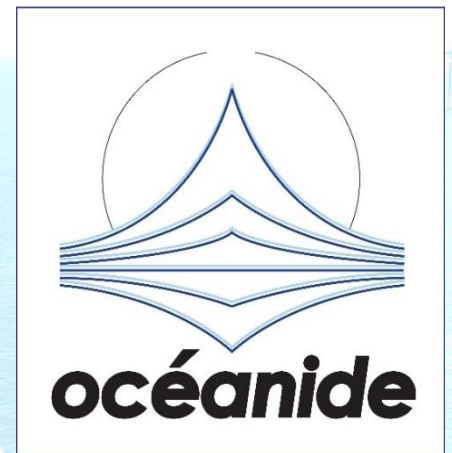
Over 45 offshore wind-related campaigns have been conducted, including:

- **Provence Grand Large** (SBM TLP floater – EDF EN / SBM)
- **EolMed** (BW Ideol floater – QAIR / BW IDEOL)
- **Erebus** (PPI semi-sub floater – Blue Gem Wind / PPI)
- **And many innovative concepts** (Gazelle Wind Power, BlueTwin, GE semi-sub in 1000 m depth, X1Wind, BW Ideol 16 MW, MonobaseWind MSPAR, GustoMSC Tri-Floater...)

Most recently, OCEANIDE completed the **Beefore** R&D project under the French "France 2030" investment program, using the VolturnUS floater. The project focuses on **real-time hybrid modelling** (Software-in-the-Loop via OrcaFlex) to simulate wind loads on the RNA during tests.

Both the South France Ocean Basin and the **Beefore** project will be featured during a side event at IOWTC 2025.

Address: Zone Portuaire de Brégaillon Bâtiment FIRST, 83500 La Seyne-sur-Mer



Venue - Banquet

28th October, 20:00-22:00

Palais du Commerce et de la Mer-Toulon:



Ideally situated on Toulon's waterfront, the Palais du Commerce et de la Mer is a two-level modern conference center with luminous, glass-walled halls and adjoining terraces overlooking the harbor. The banquet will provide an amazing opportunity to meet and greet fellow professionals in the field. Please enjoy the banquet and connect with as many people as you can!

Address: Palais du Commerce et de la Mer, 364 Av. de l'Infanterie de Marine, 83000 Toulon

General Information

Toulon:

Toulon, on France's Mediterranean coast, is famed for its vast natural harbor and long naval heritage. Key landmarks include the Cathedral of Notre-Dame-De-la-Seds, with 11th-century origins, and the Royal Tower, a 16th-century fortress guarding the port. Rising above the city, Mont Faron offers panoramic views and hosts a memorial to the 1944 Liberation of Provence. With its lively Old Town, Provençal markets, and seaside setting, Toulon blends history, culture, and maritime tradition.



A representative map of different sites to see in Toulon. Feel free to look around this beautiful town in your free time!

Accommodation Options:

Toulon offers a variety of accommodation options near the conference venue and city center. Early booking is recommended.

Hotel	Location (Walkin Distance to University)	Booking Website
Ibis Styles Toulon Centre Port	Approx. 6 minutes	Booking Link
Grand Hôtel du Dauphiné	Approx. 20 minutes	Booking Link
Hôtel Amirauté	Approx. 18 minutes	Booking Link
Best Western Plus La Corniche	Approx. 25 minutes	Booking Link
Hôtel Bonaparte	Approx. 20 minutes	Booking Link
Hôtel Little Palace	Approx. 15 minutes	Booking Link
OKKO Hotels Toulon	Approx. 10 minutes	Booking Link

Coming to Toulon

➤ By Train:

- **Nearest Train Station:** Toulon Station (Gare de Toulon)
- Toulon Station is well-connected to major cities in France via high-speed trains (TGV) and regional trains (TER). For example:
 - From Paris: Approx. 4 hours by TGV.
 - From Marseille: Approx. 1 hour by TER or 45 minutes by TGV.
 - From Nice: Approx. 1.5 hours by TER or 1 hour by TGV.
- **From Toulon Station to the Venue:**
 - **By Taxi:** A taxi ride to the University of Toulon takes around 15 minutes. (cash preferred)
 - **By Bus:** Take Bus Line 11-3-191-70-15 and stop at Campus Porte d'Italie. The journey takes approximately 20 minutes (<https://www.reseaumistral.com/se-deplacer/calcul-ditineraire>)
- **Train Tickets:** [Book your Tickets Now](#)



➤ By Air:

- **Nearest Airport:** Toulon-Hyères Airport (TLN)
- Distance to the venue: Approx. 25 km (30 minutes by car).
- **Alternative Airports:**
 - **Marseille Provence Airport (MRS):** Approx. 90 km (1.5 hours by car or 2 hours by train).
 - **Nice Côte d'Azur Airport (NCE):** Approx. 150 km (2 hours by car or 2.5 hours by train).
- **From Toulon-Hyères Airport to the Venue:**
 - **By Taxi:** A taxi ride takes approximately 30 minutes. (cash preferred)
 - **By Shuttle Bus:** Take the shuttle bus to Toulon Station, then follow the instructions under "By Train."



➤ By Car:

- Toulon is accessible via major highways:
 - **From Marseille:** Follow A50 (approx. 1 hour).
 - **From Nice:** Follow A8 and A57 (approx. 2 hours).
- **Parking:** The University of Toulon offers limited parking on-site. Additional public parking options are available nearby.



➤ Local Transportation:

- **Bus Network:** Toulon's public transport network (Réseau Mistral) operates frequent bus services. Tickets can be purchased online, at kiosks, or directly on the bus.
- **Taxi and Ridesharing:** Services like Uber and Bolt operate in Toulon and the surrounding area.

Important Information

▪ Badge Required for Admissions

- IOWTC requires all conference attendees to **always wear the official IOWTC 2025 badge** to gain admission to technical sessions, exhibits, and other conference events. Without a badge, you will not be permitted to attend any conference activities.

▪ ASME Complimentary Membership

- Any attendee that pays a non-member conference registration fee will receive a four-month ASME membership free of charge. ASME will activate this complimentary membership for qualified attendees approximately four weeks after the conclusion of the conference.

▪ Session Room Equipment

- Each session room is equipped with a projector, microphone, HDMI outlets. Speakers should have their own laptop and a copy of their presentation loaded onto a memory stick. It is recommended that authors/speakers bring all visual aids with them.

▪ Conference Papers Electronic Access

- All Full Conference Registrants will receive online access to papers and presentations made at 2025 IOWTC. Access will be granted using your registration email address. Papers that were not presented on site in Toulon will not be published in the conference proceedings and cannot be cited or indexed. You will be provided with an individual link to the online papers via email. In the event you do not receive the email, send a request to: conferencepubs@asme.org

General Information

▪ Welcome Reception:

The Welcome Reception will be hosted on Monday the 27th of October from 17:00 to 19:00 at **University of Toulon ,35 Av. Alphonse Daudet, BP 1416,83056 Toulon Cedex, France.**

▪ Conference Lunches:

Conference lunches will be held at **Toulon University, Faculty of Law** on:

- Tuesday, the 28th of October from 13:00 to 14:00
- Wednesday, the 29th of October from 12:00 to 13:00.

Take this opportunity to share a meal and connect with colleagues

▪ Coffee/Tea Breaks:

Coffee/Tea Breaks will be held at **Toulon University, Faculty of Law** on:

- Tuesday, the 28th of October from 10:30-11:00 and 16:00-16:30
- Wednesday, the 29th of October from 10:00-10:30 and 14:30-15:00.

▪ Conference Banquet:

The Conference Banquet will be hosted on the 28th of October at **PALAIS du Commerce et de la Mer** from 20:00-22:00.

▪ Emergency Information:

If you are experiencing a health emergency, please dial 112.

▪ WI-FI Information:

- Connect to the Wi-Fi:
 - On your laptop, tablet, or smartphone, open your Wi-Fi settings and choose “Visiteurs.”
- Open Your Browser:
 - Launch any web browser, and a login page will appear.
- Enter the Temporary Code:
 - Type in this temporary password to unlock access: curie.83
 - Click the lock icon to continue.
- Register for Access:
 - Since this is your first time connecting, tap the SMS button.
 - Fill in your name, phone number with your country code, and reason for your visit: eg: IOWTC Event, then press Register.
- Check Your Text Messages:
 - You will get a text (SMS) with your username and password. This may take a few minutes, so be patient!
- Log In:
 - Enter the username and password you received, check the box to agree to the terms of use, and click Submit.
- Start Browsing:
 - Click the link provided, and you are ready to go online!

Schedule at a Glance

October 27 th , 2025 - Afternoon				
2:00PM – 5:00PM		Technical Visit IFREMER / Océanide		
5:00PM - 7:00PM		Welcome Reception Faculty of Law, Hall		
October 28 th , 2025 – Morning				
8:30AM - 9:00AM		Registration / Welcome Faculty of Law, Hall		
9:00AM - 9:30AM		Opening Ceremony Bailleux		
9:30AM - 9:50AM		Keynote - Benjamin Royer, Sales Director, Ekwil Bailleux		
9:50AM - 10:10AM		Keynote – TBC, TotalEnergies Bailleux		
10:10AM - 10:30AM		Keynote - Flavia Caldi Rezende, Vice-President Marketing & Sales, Bureau Veritas Bailleux		
10:30AM - 11:00AM		Coffee / Tea Break Hall		
11:00AM - 1:00PM	Technical Sessions	Mooring Bailleux	New & Innovative FOW Design Ortolan	Hydrodynamic and Coupled Analyses-1 Jean Claude Escarras
1:00PM - 2:00PM		Lunch Hall		
October 28 th , 2025 – Afternoon				
2:00AM - 3:45PM	Technical Sessions	Cable Bailleux	Structural Design-1 Ortolan	Model Testing-1 Jean Claude Escarras
3:45PM – 4:15PM		Coffee / Tea Break Hall		
4:15PM - 6:15PM	Technical Sessions	Mooring & Cable Bailleux	Structural Design-2 Ortolan	Turbine Modeling & Technology Jean Claude Escarras
8:00PM -10:00PM		Conference Banquet Palais du Commerce et de la Mer, Toulon Harbor		

October 29 th , 2025 – Morning				
8:30AM - 9:00AM		Registration / Welcome Faculty of Law, Hall		
9:00AM - 9:20AM		Keynote - Dominique Roddier, CEO, OCERGY Bailleux		
9:20AM - 9:40AM		Keynote - Prof. Thierry Soriano, Executive Vice President, Strategic Development, Toulon University Bailleux		
9:40AM - 10:00AM		Keynote - Christine de Jouët, Provence Grand Large Project Director, EDF Power Solutions Bailleux		
10:00AM - 10:30AM		Coffee / Tea Break Hall		
10:30AM - 12:30PM	Technical Sessions	Project & Maintenance Bailleux	Structural Design-3 Ortolan	Hydrodynamic and Coupled Analyses-2 Jean Claude Escarras
12:30PM - 1:30PM		Lunch Hall		
October 29 th , 2025 – Afternoon				
1:30AM - 3:30PM	Technical Sessions	Construction & Industrialization Bailleux	Metocean & Environment-1 Ortolan	Hybrid System & Substation Jean Claude Escarras
3:30PM – 4:00PM		Coffee / Tea Break Hall		
4:00PM - 6:00PM	Technical Sessions	Digital Bailleux	Biofouling Ortolan	Model Testing-2 Jean Claude Escarras
6:00PM – 6:15PM		Closing Ceremony Bailleux		

October 27-29, 2025

<https://event.asme.org/IOWTC>

Opening Ceremony

Tuesday 28th October, 9:00-9:30, Faculty of Law, Bailleux



Xavier LEROUX

President of Toulon University



Olivier Peyret

President
EVOLEN



Marc Cahay

Offshore R&D Manager
Technip Energies
IOWTC 2025 Technical Program Chair

Keynote Speakers

Tuesday 28th October, 9:30-10:30, Faculty of Law, Bailleux

- **9:30-9:50: Benjamin Royer**

Sales Director, Ekwil

Title: Floating Wind at Scale: Delivering with Certainty.

Biography: Benjamin Royer is Sales Director at Ekwil, the 50/50 joint venture of Technip Energies and SBM Offshore dedicated to floating offshore wind. With two decades of experience in the offshore energy industry, he has built deep expertise in major EPCI contracts, project partnerships, and business development.

At Technip Energies, he held senior roles in legal contracting, consortium management, and M&A before moving into sales and business development for floating wind in France and Southern Europe. Today at Ekwil, Benjamin leads the commercial strategy to deliver bankable and scalable floating wind projects worldwide.



- **9:50-10:10: Mireille Franco**

Head of Offshore Wind Structures, TotalEnergies

Technical path to multi-GW capacity

Biography: Mireille FRANCO is a Naval Architect with a MSc (Master in Science) from the Polytechnic School in Madrid. She has spent the past 25 years working as a naval architect on countless marine and offshore related assets all around the world: West Africa, Singapore, Argentina, Dominican Republic, France... From the design to the decommissioning of the assets through construction and the follow up of their integrity on site, she has enjoyed each and every position in three different branches of TotalEnergies: Exploration & Production (Upstream), Marketing & Services (Downstream) and OneTech (Engineering and Technologies). Today, she is Head of Offshore Wind Structures dpt in OneTech branch. Based in La Défense- Paris, she leads the activities related to offshore wind structures, with a team which is recognized by its expertise in structures, and which deals with the techno-economic challenges of the sector.

Her career is marked by numerous participations in international events representing TotalEnergies' technical voice in strategic and industrial forums.



- **10:10-10:30: Flavia Caldi Rezende**

Vice-President Marketing & Sales, Europe Region, Bureau Veritas

Title: Offshore Wind Ventures: Navigating De-Risking Strategies for Technical and Financial Confidence

Biography: Flavia has a background in Naval Architecture from Federal University of Rio de Janeiro with MSc on Hydrodynamics of Offshore Structures. She joined Bureau Veritas in 2001 and has since developed her career in different technical fields and managerial roles. In 2020 she left Bureau Veritas and worked as VP Projects for Principle Power, a leading Floating Offshore Wind Turbine designer. In 2024, Flavia returned to Bureau Veritas in charge of the advisory services for Marine & Offshore Division and she has recently been assigned to the position of VP Marketing & Sales for Europe Region, starting on October 1st. Flavia is passionate about the energy sector and innovation.

**Wednesday 29th October, 9:00- 10:00, Faculty of Law, Bailleux**

- **9:00-9:20: Dominique Roddier, CEO, OCERGY**

Title: From 2MW Pioneers to 20MW+ Giants: When Innovation and Engineering redefine Floating Wind's Future

Biography: Dr. Dominique Roddier is the CEO of Ocergy, a company focused on developing Sustainable Offshore Solutions, a Naval Architect with significant expertise in ocean energy systems and a fortuitous serial renewable energy entrepreneur. Prior to Founding Ocergy with Alexia Aubault and Christian Cermelli, he served as Principle Power Chief Technology Officer and Director between 2007 and 2019. He is a co-inventor of the WindFloat. He obtained his doctorate in Naval Architecture from UC Berkeley, and after working in Houston in the offshore division of ExxonMobil's Upstream Research Company, co-founded Marine Innovation & Technology, a marine engineering consulting firm, which developed the MiniFloat hull concept, and provided consulting services to various offshore industries. In addition to Floating Offshore Wind, Dominique is an expert in the design of floating structures and has interests in synergies between various ocean related technologies. He is a Fellow member of SNAME and was the 2020 co-recipient of the Elmer A. Sperry Award for the development of the WindFloat. On his spare time, he is an avid sailor and enjoys mindful swimming and skiing actively.



- **9:20-9:40: Prof. Thierry Soriano**

Executive Vice President, Strategic Development, Toulon University

Title: Pedagogical and research potentials of University of Toulon for design and exploitation of offshore wind turbine

Biography: Thierry Soriano is a full professor at the University of Toulon, affiliated with the COSMER Laboratory (Laboratoire de Conception de Systèmes Mécaniques et Robotiques). He is currently based at SEATECH engineering school.

Professor Soriano's research spans industrial systems engineering, with a strong emphasis on mechatronics, autonomous systems, and marine robotics. His work integrates both modeling and methodological approaches, targeting applications in autonomous terrestrial and marine systems.



His collaborative work includes projects such as *National Robosco*, which investigates collective robotics in environments with limited communication, and *ITEA MODRIO* with EDF, dedicated to modeling and analyzing complex electrical networks through the MODELICA physical object simulation language. Beyond these technical contributions, his research plays a strategic role in the Blue Economy, particularly by framing offshore technological advances within the context of the UN Sustainable Development Goals (SDGs).

Professor Soriano has published extensively in journals such as *Mechatronics* and *Applied Sciences*, with notable works including:

- **Object-unified approaches** for autonomous underwater vehicle control.
- **Swarm robotics** for automated guided vehicles, which may have implications for offshore logistics and deployment.

- **9:40-10:00 : Christine de Jouët**

Provence Grand Large Project Director, EDF Power Solutions

Title: EDF power solutions: from 25 MW to 250 MW offshore floating wind park.

Biography: Christine de Jouët has more than 14 years of experience in offshore wind industry and more than 22 years in hydrodynamics, including 7 years as loads department Head for WTG/foundation design and 8 years as Project Director of EDF power solutions Provence Grand Large project, the France's first floating offshore pilot wind farm under construction which consists of three 8.4 MW wind turbines on Tension leg platform (TLP) floater technology.

She has master's degree in Naval Hydrodynamics and PhD in Fluid Dynamics and has extensive experience in project management, offshore wind tenders, wind turbines roadmap, floaters technologies assessment and development of R&D programs.



Technical Sessions

Note: Speakers' names are in bold.

Mooring

Tuesday, 28th, 11:00 AM to 1:00 PM - Bailleux

Chair: Philipp R. Thies - University of Exeter

Progress in Predicting Mooring Rope Responses

Technical Paper Publication: IOWTC2025-163869

Sam D. Weller - Tension Technology International Ltd

Stephen J. Banfield - Tension Technology International Ltd

Design and Assessment of Hybrid-Catenary Mooring Systems Using Steel Wire and Polyester Ropes for a 10MW Semi-Submersible and Spar-Buoy Wind Turbine

Technical Paper Publication: IOWTC2025-164603

Dimitrios Manolas - iWIND Renewables

Dimitrios Konispoliatis - National Technical University of Athens, School of Naval Architecture and Marine Engineering

Spyros Mavrakos - National Technical University of Athens

Maurizio Meleddu - Teufelberger-Redaelli Tecna S.p.A.

Parametric Investigation on Taut Mooring System of a 5MW SPAR FOWT for Deep Waters Under Normal and Freak Wave-Wind Conditions

Technical Paper Publication: IOWTC2025-164957

Arya Thomas - Indian Institute of Technology Bombay

Srineash V. K. - Indian Institute of Technology Bombay

Manasa Ranjan Behera - Indian Institute of Technology Bombay

Modelling of Nylon 6 Mooring Lines for Offshore Floating Wind Turbines

Technical Presentation Only: IOWTC2025-165094

Laure Civial - France Energies Marines

Romain Ribault - France Energies Marines

Juliette Laurent - France Energies Marines

Guillaume Damblans - France Energies Marines

Jean-Sébastien Verjut - France Energies Marines

Guilhem Bles - ENSTA Bretagne

Yann Marco - ENSTA Bretagne

On the Mooring Loads of a Novel, Light-Weight Semi-Submersible FOWT Platform

Technical Paper Publication: IOWTC2025-165135

Md Touhidul Islam - The University of Edinburgh

Vengatesan Venugopal - The University of Edinburgh

New & Innovative FOW Design

Tuesday, 28th, 11:00 AM to 1:00 PM - Ortolan

Chair: Milad Shadman - Offshore Renewable Energy Group-GERO/COPPE, Ocean Engineering Department, Federal University of Rio de Janeiro

Development of a Coupled Model for Disruptive Floating VAWT Concept

Technical Paper Publication: IOWTC2025-165099

Florian Ducerf - BLUETWIN

Cédric Perisse - BLUETWIN

Antoine Delon - BLUETWIN

Alexandre Cinello - BLUETWIN

Matthieu Minguez - BLUETWIN

Benjamin Rousse - Océanide

Thibaud Giroud - Océanide

Characterization & Modelling of the Wake of a Disruptive Floating VAWT for Yield Assessment

Technical Paper Publication: IOWTC2025-165119

Antoine Delon - Bluetwin

Simon Querat - Ifremer

Benoit Augier - Ifremer

Stéphane Barre - LEGI-CNRS

Guillaume Maurice - Hydroquest

Matthieu Minguez - Bluetwin

Structural Integrity of a Reinforced Concrete Semi-Submersible Platform for a 15 MW Floating Offshore Wind Turbine,

Technical Paper Publication: IOWTC2025-165295

John H. Chujutalli - Offshore Renewable Energy Group-GERO/COPPE, Ocean Engineering Department, Federal University of Rio de Janeiro

Mojtaba Maali Amiri - Offshore Renewable Energy Group-GERO/COPPE, Ocean Engineering Department, Federal University of Rio de Janeiro

Milad Shadman - Offshore Renewable Energy Group-GERO/COPPE, Ocean Engineering Department, Federal University of Rio de Janeiro

Segen Farid Estefen - National Institute for Ocean Research-INPO

Bridging Design and Industrialization: A Concrete Floater Concept for Europe's Next-Generation Floating Wind Farms,

Technical Presentation Only: IOWTC2025-165465

Luc Mouton - MAREAL

Antoine Legrand - MAREAL

Aurelien Sabatier - D2M Engineering

An Improved Mass-Constructible Concrete Tension Leg Foundation Design,

Technical Presentation Only: IOWTC2025-172808

Thomas Choynet - Eole Stab

Stéphanie Durand - Eole Stab

Julien Durand - Eole Stab

Philippe Durand - Eole Stab

Hydrodynamic and Coupled Analyses-1

Tuesday, 28th, 11:00 AM to 1:00 PM - Jean Claude Escarras

Chair: Paul Pergler - Principia

Guidelines for Fowt Support Structure Design Assessment

Technical Presentation Only: IOWTC2025-163672

Vincent Arnal - Bureau Veritas

Jérôme De Lauzon - Bureau Veritas

Cédric Brun - Bureau Veritas

Breaking Wave-Induced Slamming Load From Underlying Linear Properties

Technical Presentation Only: IOWTC2025-164789

Paul Renaud - France Energies Marines

Florian Hulin - Ecole Centrale de Nantes

Alice Courtet - France Energies Marines

Alan Tassin - Ifremer

Marc Prevosto - France Energies Marines

Jean-François Filipo - France Energies Marines

Nicolas Jacques - ENSTA Bretagne

Neil Luxcey - France Energies Marines

Efficient Structural Assessment Approaches for the Design of Floating Offshore Wind Turbine Substructures

Technical Paper Publication: IOWTC2025-164818

Imanol Touzon - DNV

Won Ho Lee - DNV

Renata M. Grabowsky Nunes - DNV

Jens Eftang - DNV

Fully Coupled Aero-Hydro-Structural Analysis of Floating Wind Platforms

Technical Presentation Only: IOWTC2025-165235

Borja Serván-Camas - International Centre for Numerical Methods in Engineering

Julio García-Espinosa - Universidad Politécnica de Madrid (UPM)

Irene Berdugo_parada - Centre Internacional de Mètodes Numèrics a l'Enginyeria (CIMNE)

Andrés Pastor - Universidad Politécnica de Madrid (UPM)

Evaluation of Reduced Order Models for an Initial Assessment of Floating Wind Turbine Dynamics

Technical Paper Publication : IOWTC2025-165270

Jordi Mas Soler - Universidade de São Paulo

Giovanni Aiosa Do Amaral - Universidade de São Paulo

Pedro Cardozo De Mello - Universidade de São Paulo

Alexandre Nicolaos Simos - Universidade de São Paulo

Daniel Fonseca De Carvalho E Silva - Petróleo Brasileiro S.A.

Cable

Tuesday, 28th, 2:00 AM to 3:45 PM - Bailleux

Chair: Antoine Felix-Henry - Aventa

Motion Induced Vibration: Time-Domain Analysis Validated Against Experimental Results

Technical Paper Publication: IOWTC2025-159008

Decao Yin - SINTEF Ocean

Jie Wu - SINTEF Ocean

Elizabeth Passano - SINTEF Ocean

Halvor Lie - SINTEF Ocean

Svein Sævik - NTNU - Norwegian University of Science and Technology

Exploring Novel Configuration Designs Alternatives for Lazy Wave Submarine Power Cables

Technical Paper Publication: IOWTC2025-163801

Philipp R. Thies - University of Exeter

Stephane Kovacs - University of Exeter

Ian Ashton - University of Exeter

Neil Brown - Seathor Ltd

Andy Simmonds - Seathor Ltd

Senu Sirnivasc - National Renewable Energy Laboratory (NREL)

Subsea Smart Hubs for Floating Wind

Technical Paper Publication: IOWTC2025-164626

Antoine Felix-Henry - Aventa

Lorenzo Pozzi - Aventa

Nourredine Hamri - Aventa

Remi Le Dru - Aventa

Maya Mourad - SuperGrid Institute

Amjad Mouhaidali - SuperGrid Institute

Nicolas Barla - SuperGrid Institute

Sébastien Jadaud - Systemes et Connectique du Mans

Coupled Thermal Modelling for Dynamic Submarine Power Cable in Varying Sea Temperatures

Technical Paper Publication: IOWTC2025-165128

Abid Arham - University of Exeter

Philipp R. Thies - University of Exeter

Ajit C. Pillai - University of Exeter

Stylianios Koumlis - Hellenic Cable Industry

Calculation of the Local Mechanical Strain and Stress in Dynamic Power Cable With Two Different Approaches Focusing on Metallic Screen

Technical Paper Publication: IOWTC2025-165407

Gauthier Gudendorff - IFP Energies nouvelles

Michaël Martinez - IFP Energies nouvelles

Martin Guiton - IFP Energies nouvelles

Antoine Félix-Henry - Aventa

Rémi Le Dru - Aventa

Thibault Bouard - Aventa

Structural Design-1

Tuesday, 28th, 2:00 AM to 3:45 PM - Ortolan

Chair: Romain Pinguet - Akselos

Coupled-System Eigenfrequency Analysis in Design of Floating Offshore Wind Turbine

Technical Paper Publication: IOWTC2025-158988

Nicolas Germain - Principle Power

Jérôme De Lauzon - Bureau Veritas

Bradley A. Ling - Principle Power

Tiago Duarte - Ocean Winds

Daniel Ribeiro - Ocean Winds

A Spectral Approach for Fatigue Damage Monitoring of Floating Offshore Wind Substructure Under Broad Banded Stress Responses

Technical Paper Publication: IOWTC2025-163987

Romane Le Pellec - DNV

Francois-Xavier Sireta - DNV

Multiaxial Fatigue Initiation-Propagation Modelling With Microstructure Effects for Welded Monopile Offshore Support Structures

Technical Paper Publication: IOWTC2025-164536

Brian Donnelly - University of Galway

Hamidreza Badakhshian - University of Galway

Jaon Muhammad Haider - University of Galway

Richard Barrett - University of Galway

Sean Leen - University of Galway

Efficient Integrated Design Using Unified Finite-Element Substructure Equations Within a Global Floating Offshore Wind Turbine Simulation Model

Technical Paper Publication: IOWTC2025-164610

Marian Albers - Sowento GmbH

Lemmer Frank - Sowento GmbH

Steffen Raach - Sowento GmbH

Takuya Sakaki - Taisei Corporation

Hiroshi Shiratani - Taisei Corporation

Project Success and Competitive Substructures Through Simultaneously Efficient and Accurate FOWT Fatigue Direct Computation

Technical Paper Publication: IOWTC2025-164940

Julien Pélé - Ekium

Laurent Mutricy - Ekium

Johyun Kyoung - Front Energies

Jang Kim - Front Energies

Alexis Martin - STAPEM Group

Raffaello Antonutti - Ekium

Youjin Yim - Front Energies

Hyungtae Lee - Front Energies

Model Testing-1

Tuesday, 28th, 2:00 AM to 3:45 PM - Jean Claude Escarras

Chair: Arjen Koop - Marin

Chair: Benjamin Bailly - Océanide

Experimental Study on Vortex-Induced Motion of a Towed FOWT in Currents and Waves

Technical Paper Publication: IOWTC2025-164223

Ueno Daichi - The University of Tokyo

Shinichiro Hirabayashi - The University of Tokyo

Gonçalves Rodolfo - The University of Tokyo

Dynamic Response of FOWT Power Cables in Shallow Water

Technical Paper Publication: IOWTC2025-164499

Claire Saunier - TechnipFMC

Alex Mendes - TechnipFMC

Benjamin Rousse - Océanide

Vincent Lafon - Océanide

Low-Frequency Extreme Response Waves: An Experimental Verification for Catenary-Moored Floating Offshore Wind Turbines

Technical Paper Publication: IOWTC2025-165248

David Lande-Sudall - Western Norway University of Applied Sciences - Department of Mechanical Engineering and Maritime Studies

Gloria Stenfelt - Western Norway University of Applied Sciences - Department of Mechanical Engineering and Maritime Studies

Peter Stansby - The University of Manchester

Hydrodynamic Load Distribution on Semi-Submersible Floating Offshore Wind Turbines Heave Plates: Experimental and CFD Investigations

Technical Paper Publication: IOWTC2025-165415

Benjamin Rousse - Océanide

Vincent Lafon - Océanide

Bernard Molin - Ecole centrale Méditerranée

Evgeny Andreev - Doris Group

Siane Lemoine - Doris Group

Marie Féron - TotalEnergies

Mooring & Cable

Tuesday, 28th, 4:15 PM to 6:15 PM - Bailleux

Chair: Philipp R. Thies - University of Exeter

Technical Standard for Synthetic Fiber Ropes for Floating Wind Applications

Technical Presentation Only: IOWTC2025-164349

Fabien Khouri - Bureau Veritas

Certification of Dynamic Subsea Power Cable

Technical Presentation Only: IOWTC2025-163188

Samuel Tanne - Bureau Veritas

Mooring Optimisation for Japanese FOW Conditions, Including Typhoon Loading and Site Variability

Technical Paper Publication: IOWTC2025-167635

Danny Golden - Dublin Offshore

Dr. Tom Doyle - Dublin Offshore

Darren Hayes - Dublin Offshore

Dr. Donghee Ko - Shimizu Corporation

Dr. Syed Hasan - Dublin Offshore

Floating Offshore Wind Farm Design Optimization, Including Mooring Line Orientations and Fatigue Design

Technical Paper Publication: IOWTC2025-165418

Alice Nassor - IFP Energies nouvelles

Yuksel Alkarem - National Renewable Energy Laboratory (NREL)

Michel Castagne - IFP Energies Nouvelles

Matthew Hall - National Renewable Energy Laboratory (NREL)

Junho Lee - Deep Anchor Solutions Inc

Ericka Lozon - National Renewable Energy Laboratory (NREL)

Paul Malisani - IFP Energies Nouvelles

Yann Poirrette - IFP Energies nouvelles

Vishnu Ramachandran - Norwegian University of Science and Technology

Structural Design-2

Tuesday, 28th, 4:15 PM to 6:15 PM - Ortolan

Chair: Marc Cahay – Technip Energies

Comparison of a Semi-Submersible and Tension Leg Platform FOWTs in Extreme Irish Atlantic Waters

Technical Paper Publication: IOWTC2025-165255

Arman Aghaei - University College Cork

Gregorio Iglesias - University College Cork

Tom Doyle - Dublin Offshore

Michael O'Shea - University College Cork

A Detailed 3d Finite Element Method for Real-Time Calculation of Floating Wind Turbine Structural Dynamics

Technical Presentation Only: IOWTC2025-165403

Julio García-Espinosa - Technical University of Madrid

Borja Serván Camas - International Centre for Numerical Methods in Engineering

Andrés Pastor - Technical University of Madrid

Irene Berdugo - Centre Internacional de Mètodes Numèrics a l'Enginyeria (CIMNE)

A New Data-Driven Method for Structural Reliability-Based Lifetime Extension of Offshore Wind Support Structures

Technical Paper Publication: IOWTC2025-165440

John D. Sørensen - Aalborg University

Ulf T. Tygesen - Vattenfall

Johan F. Toftekær - Vattenfall

Michael S. Jepsen - Vattenfall

Application of the Global Influence Superposition Method for High-Speed Structural Assessment of Floating Wind Turbines

Technical Presentation Only: IOWTC2025-168845

Michael Karch - Ramboll

Efficient Structural Analysis Method for Floating Wind Platforms Through Potential Theory and Neural Networks

Technical Paper Publication: IOWTC2025-164970

Jon Cerrada-Garcés - CENER

Jose Azcona-Armendáriz - CENER

Alvaro Olcoz-Alonso - CENER

Amaia Marco - CENER

Clara E. Acosta - BERIDI

Turbine Modeling & Technology

Tuesday, 28th, 4:15 PM to 6:15 PM - Jean Claude Escarras

Chair: Simon PUECH - D-ICE Engineering

Aerodynamic Code-To-Code Comparison via IEA 22 MW Reference Turbine

Technical Paper Publication: IOWTC2025-164262

Barry Britton - University of Galway

Aengus Connolly - Wood

Oisin Conway - Wood

Sean Leen - University of Galway

A Novel Seismic Test on a Wind Turbine Nacelle: The Preliminary Findings

Technical Paper Publication: IOWTC2025-164905

Bai-Yi Huang - National Center for Research on Earthquake Engineering

Wei-Hung Hsu - National Center for Research on Earthquake Engineering

Juin-Fu Chai - National Center for Research on Earthquake Engineering

Fan-Ru Lin - National Center for Research on Earthquake Engineering

Development of a Numerical Validation Method for the Seismic Performance of Wind Turbine Nacelles

Technical Paper Publication: IOWTC2025-164907

Wei-Hung Hsu - National Center for Research on Earthquake Engineering, NARLabs

Bai-Yi Huang - National Center for Research on Earthquake Engineering, NARLabs

Juin-Fu Chai - National Center for Research on Earthquake Engineering, NARLabs

Fan-Ru Lin - National Center for Research on Earthquake Engineering, NARLabs

Hardware Implementation of Floating Offshore Wind Turbine Control Software

Technical Paper Publication: IOWTC2025-167650

Simon Puech - D-ICE engineering

Mattéo Capaldo - TotalEnergies

Domenico Di Domenico - TotalEnergies

Sofien Kerkeni - D-ICE engineering

A Review of the MIR Erasmus Mundus Master's Program After 4 Years of Activity,

Technical Paper Publication: IOWTC2025-167955

Vincent Hugel - University of Toulon

Ricard Marxer - University of Toulon

Thierry Soriano - University of Toulon

Pedro Sanz - Jaume I University (UJI)

Raúl Marín - Jaume I University (UJI)

Pedro Batista - IST Técnico Lisboa | ULisboa

Antonio Pascoal - IST Técnico Lisboa | ULisboa

Martin Ludvigsen - NTNU - Norwegian University of Science and Technology

Project & Maintenance

Wednesday, 29th, 10:30 AM to 12:30 PM - Bailleux

Chair: Laure Cossalter - France Energies Marines

Environmental Considerations Following the Enactment of the Special Act on Offshore Wind Power

Technical Presentation Only: IOWTC2025-172607

Taeyun Kim - Korea Environment Institute

Mikoung Ha - Ministry of Environment

Sejin Kim - Ministry of Environment

Willingness-to-Pay for Eco-Engineering Applied to Floating Wind Turbines: Insights From France and the United States

Technical Presentation Only: IOWTC2025-164493

Antoine Dubois - Nantes Université

Pierre-Alexandre Mahieu - Nantes Université, LEMNA

Alison Bates - Buck Lab - Colby College

Franck Schoefs - Nantes Université

Autonomous Floating Measurement Platform OCG-DATA

Technical Paper Publication: IOWTC2025-165417

Nathan Tom - Ocergy

Franck Lebrun - Ocergy

Valentin Mulet - Ocergy

Dominique Roddier - Ocergy

Insights From the Demosath Project: Operational Performance and Lessons After Two Years of Operation

Technical Presentation Only: IOWTC2025-167872

Juan Peña Lasso - Saitec Offshore Technologies

Manuel Fernandez Perez - Saitec Offshore Technologies

Irati Larrinaga - Saitec Offshore Technologies

Raul Campos Puente - Saitec Offshore Technologies

Josune Pastor Olmos - Saitec Offshore Technologies

A Geospatial Database and Public Consulting System for Offshore Wind Farm Site Selection, South Korea

Technical Presentation Only: IOWTC2025-172697

Young Jae Yi - Korea Environment Institute

Seung Hye Heo - Ministry of Environment

Sejin Kim - Ministry of Environment

Vimflo: Advancing In-Situ Maintenance for Floating Offshore Wind Supported by Basin Test

Technical Presentation Only: IOWTC2025-172753

Cyrille Dechiron - Technip Energies

Victor Godineau - Technip Energies

Structural Design-3

Wednesday, 29th, 10:30 AM to 12:30 PM - Ortolan

Chair: Nicolas GERMAIN - Principle Power Inc.

Accelerating Integrated Loads Analysis for Offshore Wind Turbines With Efficient Reduction and Recovery

Technical Paper Publication: IOWTC2025-165420

Martin Bjerre Nielsen - Wood Thilsted

Berat Ercin - Wood Thilsted

Paulius Bucinskas - Wood Thilsted

Modelling the Structural Response of a Wave Slamming Event on a Monopile

Technical Presentation Only: IOWTC2025-172616

Michael O Shea - University College Cork

Arman Aghaei - University College Cork

Paul Renaud - France Energies Marine

Jean-François Filipot - France Energies Marines

Christophe Peyrard - EDF

Amiya Pandit - University College Cork

Aengus Connolly - Wood

Oisin Conway - Wood

Jason Jonkman - National Renewable Energy Laboratory (NREL)

Lu Wang - National Renewable Energy Laboratory (NREL)

Alan Tassin - Ifremer

Challenges and Recent Developments in Structural Health Monitoring in the Transition From Oil and Gas to Floating Wind Assets

Technical Presentation Only: IOWTC2025-163472

George Jagite - Bureau Veritas

Structural Analysis of the Voltturnus-S Reference Wind Turbine Platform: A Case Study of Fully Coupled vs. Sequentially Coupled Analyses

Technical Presentation Only: IOWTC2025-172620

Karim Raed Hussein - Offshore Renewable Energy Catapult

Hyunjoo Lee - Offshore Renewable Energy Catapult

Dylan Duncan - Offshore Renewable Energy Catapult

Dynamic One-Way Coupling of a Holistic Shell Model for Time-Domain Structural Assessment of Floating Wind Turbines

Technical Presentation Only: IOWTC2025-172792

Jeremy Nahon - Akselos

Sylvain Vallaghe - Akselos

Thang Do - Akselos

Romain Pinguet - Akselos

David Knezevic - Akselos

Bridging Concrete Floater Design Gap for Europe's Next-Generation Wind Farms

Technical Presentation Only: IOWTC2025-172823

Luc Mouton - MAREAL

Hydrodynamic and Coupled Analyses-2

Wednesday, 29th, 10:30 AM to 12:30 PM - Jean Claude Escarras

Chair: Neil Luxcey - France Energies Marines

FOWT Coupled Model and Comparison With In-Situ Measurements

Technical Paper Publication: IOWTC2025-167648

Mathieu Remy - Principia

Paul Pergler - Principia

Jean-Michel Heurtier - Principia

Cedric Le Cunff - Principia

Mid-Fidelity and High-Fidelity Simulation of a Floating Wind Turbine in Irregular Sea States

Technical Paper Publication: IOWTC2025-168525

Gaspard Engel - Nantes Université

Marie-Laure Ducasse - Saipem

Benjamin Bouscasse - Nantes Université

Vincent Leroy - Nantes Université

Pierre Ferrant - Nantes Université

On the Application of Short Design Events to a Spar Type Floating Wind Turbine

Technical Presentation Only: IOWTC2025-172561

Tom Tosdevin - University of Plymouth

Lige Zhao - University of Plymouth

Scott Brown - University of Plymouth

Martyn Hann - University of Plymouth

Deborah Greaves - University of Plymouth

A Rational Multi-Body Approach for Distributing First-Order Hydrodynamic Loads on Flexible Models of Floating Wind Turbines in Coupled Simulations

Technical Presentation Only: IOWTC2025-172584

Serag-Eldin Abdelmoteleb - SINTEF Ocean

Erin Bachynski-Polic - NTNU - Norwegian University of Science and Technology

Øyvind Ygre Rogne - SINTEF Ocean

Thomas Sauder - SINTEF Ocean

Hydroelastic Response and Modelling of a Flexible Spar: From Rigid to Elastic Body With Numerical Validation

Technical Presentation Only: IOWTC2025-172610

Florian Castillo - Longitude-OWC

Jean-Christophe Gilloteaux - OWC

Seung-Yoon Han - Ecole Centrale de Nantes

Vincent Leroy - Ecole Centrale de Nantes

Predicting Breaking Wave Loads for Offshore Wind Farm Sites

Technical Presentation Only: IOWTC2025-172676

Lige Zhao - University of Plymouth

Alistair Borthwick - University of Plymouth

Jiaxin Chen - University of Plymouth

Tom Tosdevin - University of Plymouth

Deborah Greaves - University of Plymouth

Construction & Industrialization

Wednesday, 29th, 1:30 PM to 3:30 PM - Bailleux

Chair: Thomas Choynet - Eole Stab

From Synthetic Fiber Rope Testing to Mooring Design of Floating Offshore Turbines

Technical Paper Publication: IOWTC2025-163754

Jean-Luc Pelerin - SBM Offshore

Renaud Daran - Ekwil

Julien Prieur - Ekwil

A Radical Departure From Traditional Welding

Technical Presentation Only: IOWTC2025-164922

Paul Cheng - Fusering Inc

Parametric Modelling and Robotic Trajectory Generation for Inspection of Welded Tubular Joints

Technical Paper Publication: IOWTC2025-164952

Micaela Gomez Coronel - Universidade da Coruña

Alberto Ramil - Universidade da Coruña

Armando Yáñez - Universidade da Coruña

Javier Montero - Universidade da Coruña

Experimental Assessment of an Innovative Watertight Membrane for Chloride Ingress Prevention in Floating Offshore Wind Concrete Foundations

Technical Presentation Only: IOWTC2025-165243

Nicolas Calvet - BW Ideol

Walaa Farhat - Ecole Centrale de Nantes

Magali Mouries - BW Ideol

Thomas Soulard - Open-C

Stéphanie Bonnet - Université de Nantes

Emmanuel Roziere - Ecole Centrale de Nantes

A Parametric Dimensional and Structural Iteration Study for the Floating Wind Turbine Support Structures

Technical Paper Publication: IOWTC2025-165399

Shunsuke Nishimura - Japan Marine United Corporation

Haruki Yoshimoto - Japan Marine United Corporation

Ken Kamizawa - Japan Marine United Corporation

Ryo Matsuoka - Nihon Ship Yard Corporation

Innovative Solutions for Floating Offshore Wind

Technical Presentation Only: IOWTC2025-172726

Alderic Blanc - SAFIER INGENIERIE SAS

Kevin Aubriere - SAFIER INGENIERIE SAS

Metocean & Environment

Wednesday, 29th, 1:30 PM to 3:30 PM - Ortolan

Chair: Arjen Koop - Marin

Eco-Friendly and Cost Effective Solution for Ballasting Floating Offshore Wind Turbines

Technical Presentation Only: IOWTC2025-163711

Eric Hansen - Hansen Marine Energies

Joint Estimation of Extreme Wind and Wave Statistics Under Tropical Cyclones for the Design of Offshore Wind Turbines

Technical Presentation Only: IOWTC2025-164937

Jean-Francois Filipot - France Energies Marines

Fabien Leckler - France Energies Marines

Clément Pouplin - France Energies Marines

Paul Renaud - France Energies Marines

Nicolas Raillard - Ifremer

Léo Vinour - Hokkaido University

Marc Prevosto - France Energies Marines

Alexis Mouche - Ifremer

Bertrand Chapron - Ifremer

Swen Jullien - Ifremer

A New Acoustic Monitoring and Source Positioning System for Wind Farms

Technical Paper Publication: IOWTC2025-164941

Sebastian Marzetti - Université de Toulon

Valentin Gies - Université de Toulon

Valentin Barchasz - Université de Toulon

Hervé Glotin - Université de Toulon

A New Underwater Acoustic Monitoring and Source Positioning System for Offshore Wind Farms

Technical Paper Publication: IOWTC2025-164956

Sebastian Marzetti - Université de Toulon

Valentin Gies - Université de Toulon

Valentin Barchasz - Université de Toulon

Hervé Glotin - Université de Toulon

Transfer Learning for Cetacean Monitoring in the Context of Mediterranean Offshore Windfarms

Technical Presentation Only: IOWTC2025-165144

Lou Gaillard - Ecole Pratique des Hautes Etudes

Tristan Villepreux - Université de Toulon

Hervé Glotin - Université de Toulon

Stéphane Chavin - Université de Toulon

Pierre Lefèvre - Qair Marine

Serge Planes - Centre National de la Recherche Scientifique

The Critical Role of Metocean Measurements in Offshore Wind Farm Development

Technical Presentation Only: IOWTC2025-165268

Elsa Defachelle - Nortek Méditerranée

Caroline Valmori - Nortek Méditerranée

Hybrid System & Substation

Wednesday, 29th, 1:30 PM to 3:30 PM - Jean Claude Escarras

Chair: Marc Cahay - Technip Energies

Chair: Mélanie Roulet - France Energies Marines

Towards Reliability Risk Analysis of Offshore Wind Farm Substations for Insurance Applications

Technical Paper Publication: IOWTC2025-165304

Muhammad Ahmad - University of Exeter

Philipp R. Thies - University of Exeter

Mario Recker - University of Exeter

Tariq Dawood - Aviva

Nick Nardiello - Aviva

Pre-Conceptual Design of a Floating Offshore Hydrogen Substation

Technical Presentation Only: IOWTC2025-165410

Mélanie Roulet - France Energies Marines

Camil Matoug - France Energies Marines

Laura Suarez - INNOSEA

Caroline Valenchon - INNOSEA

Florian Dupriez-Robin - France Energies Marines

Caroline Mevel - Ekium

Gweanëlle Benoit - Ekium

Sylvanie Sieng - Seaway7

Bertrand Auriac - Seaway7

Marie Robert - France Energies Marines

Lénaïg Mellaza - France Energies Marines

Hyfloat1: Semi-Submersible Platform Design Integrating Wind Generation, Electrolysis and Hydrogen Storage

Technical Presentation Only: IOWTC2025-165701

Dam Pham - University College Cork

Quang Vu Dinh - University College Cork

Paul Leahy - School of Engineering, University College Cork

Innovations in Power Module and Valve Design for Offshore Applications of Vsc-Hvdc

Technical Presentation Only: IOWTC2025-167629

Richard Cooke - Rongxin Power Ltd

Graeme Bathurst - Rongxin Power Ltd

Paolo Bordignon - Rongxin Huiko Electric Co.,Ltd

Rong Yi - Rongxin Huiko Electric Co.,Ltd

Ting Lu - Rongxin Huiko Electric Co.,Ltd

Comparative Frequency Domain Hydrodynamic Analysis Study of Hybrid Owc-Floating Offshore Wind Turbine Platform

Technical Presentation Only: IOWTC2025-172650

Fares M'zoughi - University of Victoria (UVic)

Virag Mishra - Oregon State University

Curran Crawford - University of Victoria

Izaskun Garrido - University of the Basque Country

Aitor J. Garrido - University of the Basque Country

Offshore Wind-Powered Hydrogen Production: An Integrated Model for Technical and Economic Feasibility Assessment

Technical Presentation Only: IOWTC2025-172754

Milad Shadman - Offshore Renewable Energy Group-GERO/COPPE, Ocean Engineering Department, Federal University of Rio de Janeiro

Jeferson De Almeida - Offshore Renewable Energy Group-GERO/COPPE, Ocean Engineering Department, Federal University of Rio de Janeiro

Iago Chaves Bastos - Offshore Renewable Energy Group-GERO/COPPE, Ocean Engineering Department, Federal University of Rio de Janeiro
Janito Dos Santos Ramos - Offshore Renewable Energy Group-GERO/COPPE, Ocean Engineering Department, Federal University of Rio de Janeiro
Robson Dias - Offshore Renewable Energy Group-GERO/COPPE, Ocean Engineering Department, Federal University of Rio de Janeiro
Paulo Emílio Valadão De Miranda - Offshore Renewable Energy Group-GERO/COPPE, Ocean Engineering Department, Federal University of Rio de Janeiro
Segen Estefen - Offshore Renewable Energy Group-GERO/COPPE, Ocean Engineering Department, Federal University of Rio de Janeiro

Digital

Wednesday, 29th, 4:00 PM to 6:00 PM - Bailleux

Chair: Nicolas Guy - IFP Energies nouvelles

Application of a Digital Twin Framework for Response of Floating Offshore Wind Turbine Foundations to Laboratory Mooring Failures

Technical Paper Publication: IOWTC2025-164342

Pietro D. Tomaselli - DHI

Bjarne Jensen - DHI

Floating Offshore Wind Turbines Digital Twin Calibration From Operational Data Through Operational Modal Analysis and Optimization

Technical Paper Publication: IOWTC2025-164947

Nicolas Guy - IFP Energies nouvelles

Jean-Lou Pfister - IFP Energies nouvelles

Alexis Benhamou - TotalEnergies

Pavel Dedeev - Technip Energies

Nicolas Loustaunau - Saipem

Jérôme De Lauzon - Bureau Veritas

A Digital Twin Tracking Sensor Data in Real-Time on a Floating Offshore Wind Turbine

Technical Paper Publication: IOWTC2025-165461

Niclas Jacob - Sowento GmbH

Lemmer Frank - Sowento GmbH

Marian Albers - Sowento GmbH

Steffen Raach - Sowento GmbH

Clare Thomas - AMOG

Development and Calibration of a Structural Digital Twin for Floating Offshore Wind

Technical Paper Publication: IOWTC2025-167883

Nicolas Georges - 2H Offshore

Ricky Thethi - 2H Offshore

Philippe Jean - 2H Offshore

A Structural Integrity Digital Twin for the Kincardine Floating Wind Farm

Technical Presentation Only: IOWTC2025-172337

Owen Pocock - 2H Offshore

Philippe Jean - 2H Offshore

Biofouling

Wednesday, 29th, 4:00 PM to 6:00 PM - Ortolan

Chair: Valentin Gies - Université de Toulon

Chair: Christian Windt - TU Braunschweig

Spatial and Temporal Variability of Biofouling on Offshore Wind Turbines and Connecting Network: Implications for Structural Design and Maintenance

Technical Presentation Only: IOWTC2025-163992

Aurélié Portas - France Energies Marines

Lucas Pinsivy - Institut Universitaire Européen de la Mer

Jacques Grall - Institut Universitaire Européen de la Mer

Guillaume Damblans - France Energies Marines

Jean-François Briand - Laboratoire MAPIEM

Nolwenn Quillien - France Energies Marines

Remote Monitoring of the Growth of Biofouling on Dynamic Electrical Cables and Mooring Lines of Floating Wind

Technical Paper Publication: IOWTC2025-164459

Franck Schoefs - Nantes Université

Ziad Maksassi - Nantes Université

Benoit Parrein - Nantes Université

Ahmed Gueled - Nantes Université

Bertrand Garnier - Nantes Université

Review of Soft Fouling Impact on Floating Offshore Wind Turbines: Research Gaps in Long Algae Morphological and Mechanical Characteristics

Technical Paper Publication: IOWTC2025-165242

Nazila Emamdoost - Nantes Université

Franck Schoefs - Nantes Université

Krish Thiagarajan Sharman - University of Massachusetts, Amherst

Justine Dumay - Nantes Université

Jean-Christophe Thomas - Nantes Université

Added Mass and Drag Coefficients of Biofouled Mooring Chains in Waves

Technical Paper Publication: IOWTC2025-165256

Krish Sharman - University of Massachusetts Amherst

Franck Schoefs - Nantes Université

Nazila Emamdoost - University of Massachusetts Amherst

Maduka Maduka - Worcester Polytechnic Institute

Jean-Christophe Thomas - Nantes Université

Experimental Investigation of Wave-Induced Forces on a Pile With Living Marine Growth

Technical Presentation Only: IOWTC2025-172668

Henri Busch - TU Braunschweig

Clemens Krautwald - TU Braunschweig

David Schürenkamp - TU Braunschweig

Constantin Schweiger - TU Braunschweig
Christian Windt - TU Braunschweig
Nils Goseberg - TU Braunschweig

Hydrodynamic Effect of Soft Marine Growth on Offshore Structures

Technical Presentation Only: IOWTC2025-172669

Henri Busch - TU Braunschweig
Gael Verao Fernández - TU Braunschweig
Christian Windt - TU Braunschweig
Nils Goseberg - TU Braunschweig

Model Testing-2

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Chair: Benjamin Bailly - Océanide

Development of Modular Large Scale Wind Generation System for Next-Generation Floating Offshore Wind Turbines, Floating Solar Energy Farms and Floating Offshore Infrastructure

Technical Presentation Only: IOWTC2025-172587

Arjen Koop - MARIN
Gijs Bouman - MARIN
Erik-Jan De Ridder - MARIN
William Otto - MARIN

Hydrodynamic Evaluation of an Innovative Floating Platform for Offshore Wind: A Comparative Physical Model Study

Technical Presentation Only: IOWTC2025-172613

Elif Turkarslan - Izmir Institute of Technology
Yuksel Alkarem - University of Maine
Berguzar Ozbahceci - Izmir Institute of Technology
Unver Ozkol - Izmir Institute of Technology

Improved Fatigue Capacity of Tubular Connections Welded by Robots - Results From the Jaco Research Joint Industry Project

Technical Presentation Only: IOWTC2025-172749

Marc Vanderschueren - OCAS
Philippe Thibaux - OCAS

On the Development of Software-In-The-Loop Method to Test Floating Offshore Wind Turbine Concepts in the 'South France - Ocean Basin'

Technical Paper Publication: IOWTC2025-165424

Benjamin Rousse - Océanide
Benjamin Bailly - Océanide
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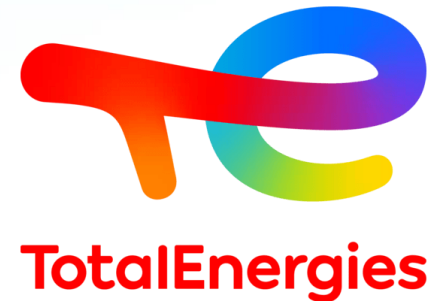
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Model Testing-1 Session Chair: Arjen Koop, Benjamin Bailly Time: 14:00-15:45	Hybrid System & Substation Session Chair: Marc Cahay, Mélanie Roulet Time: 13:30-15:30
Mooring & Cable Session Chair: Philipp R. Thies Time: 16:15-18:00	Digital Session Chair: Nicolas Guy Time: 16:00-18:00
Structural Design-2 Session Chair: Marc Cahay Time: 16:15-18:00	Biofouling Session Chair: Valentin Gies, Christian Windt Time: 16:00-18:00
Turbine Modeling & Technology Session Chair: Simon Puech Time: 16:15-18:00	Model Testing-2 Session Chair: Benjamin Bailly Time: 16:00-18:00

Sponsors

TotalEnergies

TotalEnergies is a global integrated energy company that produces and markets energies: oil and biofuels, natural gas, biogas and low-carbon hydrogen, renewables, and electricity. Our more than 100,000 employees are committed to provide as many people as possible with energy that is more reliable, more affordable, and more sustainable. Active in about 120 countries, TotalEnergies places sustainability at the heart of its strategy, its projects, and its operations.

Contact Us For questions, subscriptions, or support, reach out to: contact@totalenergies.fr.



Ocergy

Ocergy's mission is to develop Sustainable Offshore Solutions that contribute to solving climate change by reducing our carbon footprint while enabling the harvesting of renewable energies and protecting biodiversity.

Ocergy is a technology developer in the floating offshore wind space. The team is spread over the US and Europe, with a strong presence in California and the South of France and works on projects worldwide. The company was founded in 2019. It currently has over 30 staff members and is expected to continue its growth over the next few years.

Our team shares a common vision; we strive to create value by:

- achieving industry recognition in successful project execution
- developing sustainable offshore technologies
- bringing renewable resources into the global energy mix
- adopting green principles in company's activities

Our success will be the success of a colossal new sustainable industry and will open an era of responsible and renewable development of the earth ocean resources.



Eiffage Metal

Offshore Wind Specialist

Eiffage Métal brings over 20 years of unmatched experience in offshore wind, with more than 3,000 foundations completed or in production, and 30 high-voltage substations delivered across Europe.

A one-stop industrial contractor, Eiffage Métal delivers end-to-end solutions—from the design and fabrication of steel components to turnkey delivery of complex assemblies. Their expertise spans:

- Onshore wind turbine masts
- Offshore foundations including monopile with transition piece, jackets, tripods, and floaters
- Offshore high-voltage substations (foundation plus transformer platform)
- Tidal turbine foundations

Supported by its subsidiaries—Smulders (Belgium), a market leader in offshore steel components, and Eiffage Métal Iberica (Spain), a key onshore wind turbine mast builder—Eiffage Métal benefits from wide-ranging European production capabilities. Their industrial capacity ensures unmatched output:

- 1 transition piece foundation per day (with monopile)
- 1 jacket foundation per week
- 3 complete electrical substations per year

Eiffage Métal is a frontrunner in both bottom-fixed and floating offshore wind technologies. Their floating wind expertise facilitates deployment in deeper waters and farther from shore.



Ekwil

Ekwil is a 50/50 joint venture between Technip Energies and SBM Offshore. Bringing together the industry-leading expertise and experience of two energy transition leaders, Ekwil is a pure player in floating offshore wind. Headquarters in Paris, Ekwil operates with a core team of 40 specialists who bring a wealth of experience in Engineering, Procurement, Construction, and Installation (EPCI).



Ekwil is committed to delivering smart, flexible, and competitive solutions for the floating offshore wind (FOW) sector. Its approach includes the development of two primary technology families: the Float4Wind Tension Leg Platforms, which offer unique motion performance that closely mimics fixed location parameters, and the INO semi-submersible platforms, which provide a solution capable of operating at any site while ensuring secure and efficient support for any turbine size. These technologies are designed to maximize compatibility with existing and future turbine models, allowing for flexibility across diverse ocean environments. By leveraging both standardized components and site-specific adaptability, Ekwil aims to streamline project execution and reduce costs across the lifecycle of floating wind projects.

With a clear mission to contribute to global energy transition goals, Ekwil seeks to make FOW a viable, large-scale contributor to the renewable energy mix. As part of this mission, Ekwil emphasizes delivery excellence, a collaborative approach with its parent companies, and a commitment to minimizing the environmental footprint of its operations.

Ekwil's vision is not only to lead in technology but to set a new standard for reliable, cost-effective renewable energy solutions, making offshore wind energy a key resource in the quest for net zero emissions.

Nortek

Nortek is a leading innovator in underwater Doppler technology, delivering high-performance instruments that measure and monitor water movement with unmatched accuracy. As part of the global Nortek Group, the company specializes in developing Acoustic Doppler Current Profilers (ADCPs) and Doppler Velocity Logs (DVLs), which are essential tools for oceanographers, marine engineers, and subsea navigation experts.



Advanced Oceanographic Solutions Nortek's ADCPs are engineered to capture detailed data on ocean currents, waves, and turbulence, enabling researchers and coastal planners to better understand marine dynamics. These instruments play a vital role in offshore infrastructure safety, site selection for renewable energy installations, and coastal erosion mitigation. By providing real-time insights into underwater conditions, Nortek empowers users to make informed decisions that enhance safety and sustainability.

Reliable Navigation for Subsea Vehicles In environments where GPS signals are unavailable, Nortek's DVLs offer precise navigation capabilities for remotely operated vehicles (ROVs), autonomous underwater vehicles (AUVs), and surface vessels. These systems are critical for operations such as cable-laying for offshore wind farms, subsea inspections, and scientific exploration. Nortek's technology ensures that vehicles maintain accurate positioning even in the most challenging underwater environments.

Nortek France also offers services for all aspects of physical measurements in the marine environment, anywhere in the world. This can range from a simple sensor rental to the implementation of a multi-month field measurement campaign on the other side of the world, including the supply of complex measurement systems at sea and the delivery of real-time data to the client's office. Equipped with a wide range of high-quality oceanographic instruments, in-house developed supports (buoys and tripods), an integration and calibration workshop, and the support of international and regional logistics partners, our team is capable of operating anywhere in the world for any measurement service.

Contact Us For inquiries, technical support, or partnership opportunities, please reach out to: info@nortekgroup.com.

Bureau Veritas

Bureau Veritas France: Building Trust Through Expertise

Bureau Veritas stands at the forefront of the Testing, Inspection, and Certification (TIC) industry, delivering world-class services that help businesses meet quality, safety, environmental, and social responsibility standards. The group employs over 82,000 professionals globally — including 8,000 in France — and is committed to shaping a world of trust through technical excellence and innovation.



Shaping a World of Trust

With a legacy rooted in integrity and precision, Bureau Veritas offers a comprehensive portfolio of services tailored to diverse sectors such as marine & offshore, energy, agriculture, automotive, construction, manufacturing and public services. Their expertise spans across certification, audits, cybersecurity, laboratory testing, environmental consulting, and regulatory compliance. Whether it's ensuring the safety of infrastructure, verifying product quality, or supporting sustainable development goals, Bureau Veritas empowers clients to navigate complex challenges with confidence.

The company's strategic approach is anchored in its LEAP | 28 initiative, driving robust organic growth and operational excellence. Bureau Veritas has also made significant strides in digital transformation, offering tools like BV Link — a digital interface that streamlines compliance data management—and leveraging data inspection to enhance client performance.

As part of its commitment to corporate social responsibility, Bureau Veritas integrates sustainability into every facet of its operations. From promoting workplace safety to advancing environmental stewardship, the company aligns its mission with the evolving expectations of society and industry.

Recently inducted into the prestigious CAC 40 index, Bureau Veritas continues to expand its global footprint while remaining deeply rooted in local expertise.

For more information or to get in touch, please contact: contact@bureauveritas.com

Partners

EVOLEN

EVOLEN is a leading French trade association committed to shaping the future of energy by supporting companies and professionals in developing sustainable, reliable, and economically viable solutions. With nearly 300 corporate and individual members, EVOLEN serves as a dynamic platform for collaboration, innovation, and international outreach in the energy sector. Its mission is to unite stakeholders across France and abroad, acting as a facilitator and public voice for the industry as it transitions toward carbon neutrality by 2050.



The association's strategic focus spans four key areas: energy transition, operational efficiency, business development, and talent & innovation. Through its 20 specialized committees, EVOLEN drives thought leadership and guides its members in tackling major challenges such as decarbonization, renewable energy integration, and digital transformation. These committees serve as incubators for ideas, policy recommendations, and technical expertise, ensuring that members stay ahead of industry trends and regulatory shifts.

EVOLEN also plays a vital role in promoting French energy expertise on the global stage. It organizes international missions, trade shows, and conferences—such as the Angola–French Energy Decarbonation Days and GASTECH 2025—to foster cross-border partnerships and showcase innovative technologies. Its programs in innovation, talent development, and international cooperation empower members to scale their impact and contribute to a more resilient energy ecosystem.

The association's commitment to environmental responsibility is reflected in its support for low-carbon technologies and its emphasis on skill-building for the next generation of energy professionals. By bridging the gap between industry, academia, and public institutions, EVOLEN ensures that the energy transition is both inclusive and forward-looking.

Whether you're a startup, a multinational, or an individual expert, EVOLEN offers a collaborative environment where ideas flourish and solutions take shape.

Contact: contact@evolen.org.

ASME

ASME is a not-for-profit membership organization that enables collaboration, knowledge sharing, career enrichment, and skills development across all engineering disciplines, toward a goal of helping the global engineering community develop solutions to benefit lives and livelihoods. Founded in 1880 by a small group of leading industrialists, ASME has grown through the decades to include more than 140,000 members in 151 countries.



For more than 100 years, ASME has successfully enhanced performance and safety worldwide through its renowned codes and standards, conformity assessment programs, training courses, and journals.

ASME also produces nearly 40 international conferences. These industry-leading events feature advanced research and technical content spanning a range of industries impacted by mechanical engineering, including energy production, energy sources, advanced manufacturing, and engineering sciences.

Toulon University

Located in the heart of the French Riviera, the University of Toulon (UTLN) has been a cornerstone of academic excellence since its founding in 1968. Offering over 100 degree programs spanning science, technology, arts, humanities, and law, UTLN places strong emphasis on interdisciplinary research

and international cooperation. Its three campuses—La Garde, Toulon city center, and Draguignan—provide modern facilities including five libraries, multimedia labs, and vibrant student hubs. UTLN is home to five major research institutes, with notable innovation in marine science, cybersecurity, and entrepreneurship, backed by national and European support. With partnerships across 150+ institutions worldwide, it welcomes students from around the globe and offers multilingual resources, academic exchanges, and summer programs. Dedicated to preparing future leaders and fostering cultural diversity, UTLN is a gateway to global opportunity.



The university also boasts a dynamic cultural scene, hosting annual events such as the Robocup Middle Size League. Students benefit from a wide range of extracurricular activities, including sports clubs, debate societies, and volunteer programs, fostering a well-rounded educational experience. UTLN's commitment to sustainability is evident through its green campus initiatives, promoting eco-friendly practices and renewable energy projects. With a strong alumni network and career services, graduates are well-equipped to excel in competitive job markets worldwide. Whether pursuing academic excellence or personal growth, UTLN offers an inspiring environment to thrive.

Contact: communication@univ-tln.fr

Pôle Mer Méditerranée

Pôle Mer Méditerranée is a world-class maritime innovation cluster based in southern France, dedicated to advancing sustainable development across the marine and coastal economy. Established in 2005 and recognized by the French government as a global competitiveness hub, it unites over 500 members—including SMEs, large corporations, research institutions, and public agencies—across the Provence-Alpes-Côte d’Azur, Occitanie, and Corsica regions. The cluster drives collaborative R&D in six strategic domains: maritime defense and safety, naval and nautical engineering, marine energy and mineral resources, biological marine resources, coastal environment and resilience, and port logistics. Two cross-cutting themes—digital transformation and ecological transition—further enhance its innovation strategy.

Pôle Mer Méditerranée supports its members through project structuring, expert guidance, and access to national and European funding. Its rigorous project labeling process ensures excellence and boosts credibility with investors and public funders. Over 75% of labeled projects receive co-financing, reflecting the cluster’s strong track record in delivering impactful solutions. The organization also hosts technical workshops, international missions, and innovation forums to foster knowledge exchange and accelerate market access.

With a vision rooted in decarbonization, sovereignty, and economic growth, Pôle Mer Méditerranée plays a pivotal role in shaping the future of the blue economy. It empowers maritime stakeholders to tackle global challenges—from climate change and biodiversity loss to energy transition and digitalization—while promoting job creation and regional competitiveness. Through its dynamic ecosystem, the cluster positions France as a leader in ocean innovation and sustainability.

Contact: contact@polemermediterranee.com.



France Energies Marines

France Energies Marines is a research and innovation center for offshore wind energy with a significant impact on the industry and international influence. Supported by the French government, the Institute is breaking down the barriers faced by the offshore wind sector, thanks to a multidisciplinary team of more than 90 employees, a network of international experts, and unique testing facilities. Its activities are structured around four complementary departments: Wind and Ocean Dynamics, Systems & Performance, Biodiversity & Monitoring, and Ecosystems & Society.



**FRANCE
ENERGIES
MARINES**

Notes

A large offshore wind turbine dominates the foreground, its three white blades extending outwards. The tower is white, and the base is partially submerged in the dark blue water. In the background, several other smaller wind turbines are visible, scattered across the horizon under a clear, bright blue sky. The water is calm with subtle ripples.



Thank you for attending!

Visit our website for information on
IOWTC in coming years!!!

<https://event.asme.org/IOWTC>

