

PRELIMINARY PROGRAMME **for the 15th European Wave &** **Tidal Energy Conference**

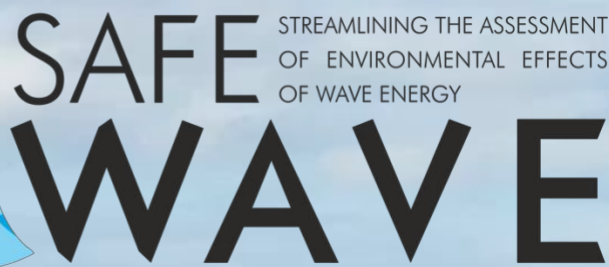
BILBAO 
3rd -7th SEPTEMBER 2023

	Day 1 Sunday September 3	Day 2 Monday September 4				Day 3 Tuesday September 5				Day 4 Wednesday September 6				Day 5 Thursday September 7				Day 6 Friday September 8	
08:00-08:30	Bus departure to Getxo Regatta	Registration (Main Hall)				Registration (Main Hall)				Registration (Main Hall)				Registration (Main Hall)				Social programme Guided tour through the river by BILBOATS	08:00-08:30
08:30-09:00																			08:30-09:00
09:00-09:30						09:00-09:30													
09:30-10:00						09:30-10:00													
10:00-10:30	Regatta La mar en calma Sailing School in Getxo (10:00-15:00h)	Opening Ceremony (Mixelena Auditorium)				Refreshments, networking & posters exhibition (Terrace and Chillida room)												Social programme Guided tour through the river by BILBOATS	10:00-10:30
10:30-11:00																			10:30-11:00
11:00-11:30		Keynote lectures + JRL-ORE (Mixelena Auditorium)				Oral presentation WDD	Oral presentation TDD	Oral presentation WHM	Oral presentation THM	Oral presentation WDD	Oral presentation TDD	Oral presentation TRC		Oral presentation WDD	Oral presentation GPC	Oral presentation WRC	Oral presentation ESP		11:00-11:30
11:30-12:00						Oral presentation WDD	Oral presentation TDD	Oral presentation WHM	Oral presentation THM	Oral presentation WDD	Oral presentation TDD	Oral presentation TRC		Oral presentation WDD	Oral presentation GPC	Oral presentation WRC	Oral presentation ESP		11:30-12:00
12:00-12:30		Lunch (Terrace and Chillida room)														12:00-12:30			
12:30-13:00																12:30-13:00			
13:00-13:30		Lunch (Terrace and Chillida room)														13:00-13:30			
13:30-14:00																13:30-14:00			
14:00-14:30		Oral presentation WHM	Oral presentation ONM	Oral presentation SMM	Oral presentation GPC	Oral presentation WDD	Oral presentation TDD	Oral presentation WHM	Oral presentation THM	Oral presentation WDD		Oral presentation TRC	Oral presentation EIA	Oral presentation WDD		Oral presentation WRC	Oral presentation ESP		14:00-14:30
14:30-15:00		Bus returning to Bilbao	Refreshments, networking & posters exhibition (Terrace and Chillida room)														Technical visits: Option 1: MUTRIKU Option 2: BIMEP		14:30-15:00
15:00-15:30	Closing Ceremony																	15:00-15:30	
15:30-16:00															Side event 1 Side event 2 Side event 3 Side event 4 Side event 5 Side event 6 Side event 7 Side event 8 Side event 9				
16:00-16:30	16:00-16:30																		
16:30-17:00	16:30-17:00																		
17:00-17:30	17:00-17:30																		
17:30-18:00	2 Buses departing to Olatua Building Getxo Cruise Terminal every 30 minutes (around 6 buses)	Oral presentation WHM	Oral presentation SMF	Oral presentation SMM	Oral presentation GPC	Oral presentation WDD		Oral presentation WHM	Oral presentation THM	Opening of the galleries of the Museum (exclusive for Delegates)				(Executive Board Meeting and Dinner)				17:30-18:00	
18:00-18:30		Oral presentation WHM	Oral presentation SMF	Oral presentation SMM	Oral presentation GPC	Oral presentation WDD		Oral presentation WHM	Oral presentation THM									18:00-18:30	
18:30-19:00		Oral presentation WHM	Oral presentation SMF	Oral presentation SMM	Oral presentation GPC	Oral presentation WDD		Oral presentation WHM	Oral presentation THM									18:30-19:00	
19:00-19:30		Oral presentation WHM	Oral presentation SMF	Oral presentation SMM	Oral presentation GPC	Oral presentation WDD		Oral presentation WHM	Oral presentation THM									19:00-19:30	
19:30-20:00	Welcome Reception (Olatua Building Getxo Cruise Terminal)	Social programme Pintxos Route				Technical Committee Meeting (Elhuyar room)				Opening of the galleries of the Museum (exclusive for Delegates)				(Executive Board Meeting and Dinner)				19:30-20:00	
20:00-20:30																		20:00-20:30	
20:30-21:00	Registration available	Social programme Pintxos Route				(Track Directors Dinner)				Opening of the galleries of the Museum (exclusive for Delegates)				(Executive Board Meeting and Dinner)				20:30-21:00	
21:00-21:30																		21:00-21:30	
21:30-22:00		All Buses returning to Bilbao	Social programme Pintxos Route				(Track Directors Dinner)				Opening of the galleries of the Museum (exclusive for Delegates)				(Executive Board Meeting and Dinner)				21:30-22:00
22:00-22:30																			22:00-22:30
22:30-23:00		15 th ewtec 2023 BILBAO European Wave and Tidal Energy Conference Series 3 rd -7 th SEPTEMBER 2023														22:30-23:00			
23:00-23:30																23:00-23:30			
Colour code:	Olatua Building	Mixelena (440 pax)	Main Hall	Barandiarán (16 pax)	Elhuyar (24 pax)	Chillida (220 m2)	Oteiza (60 pax)	Terrace (800+400 m2)	Baroja (160 pax)	Laboa (110 m2)	Arriaga (60 pax)								
Tracks:	THM: Tidal hydrodynamic modelling WHM: Wave hydrodynamic modelling EIA: Environmental impact and appraisal				WDD: Wave device development and testing GPC: Grid integration, power take-off and control WRC: Wave resource characterization				ONM: Operations, maintenance and decommissioning TDD: Tidal device development and testing TRC: Tidal resource characterization				ESP: Economical, social, legal and political aspects of ocean energy SMF: Station-keeping, moorings and foundations SMM: Structural mechanics - materials, fatigue, loadings						

Tuesday September 5							
08:00-09:00	Registration (Main Hall)					08:00-09:00	
09:00-10:30	Oral presentations	Room /Track	Chairman	Paper ID	Title	Presenter	
		Baroja/ Wave device development and testing	Diego Vicinanza	138	Analysis of Mutlu's OWC performance	Isabel Casas	
				144	Successful innovation strategies to overcome the technical challenges in the development of wave energy technologies	Pablo Ruiz-Minguela	
				298	Spatial focusing of wave energy for improved power capture by an oscillating water column	Robert Mayon	
				352	Reference of Robustness and Uncertainties Analysis in the Optimal Design of Wave Energy Converters	Filippo Giorelli	
				176	Tuning Wave Energy Converters to local wave conditions	Wilson Guachaman-Azoro	
		456	Enabling the Ocean Internet of Things with Renewable Marine Energy	Matthew Topper			
		Laboar/ Tidal device development and testing	Stephanie Ordoñez-Sánchez	166	Integrable Active Blade Pitch Control for Cross-Flow Tidal Turbines Using Embedded Electric Drive Systems	Zhao Zhao	
				209	Numerical optimization of the active lift turbines using OpenFoam's overset method	Ian Robin	
				231	Non-dimensional scaling of passive adaptive blades for a marine current turbine	Katherine Van Ness	
	264			Optimal Design of a Submerged Tidal Device for Low Current Environment	Seoung-won Jeong		
	343			Designing Vortex Generators for Tidal Turbine Blades	George Papadakis		
	Arriaga/ Wave hydrodynamic modelling	Gareth Thomas	317	Verification and validation of MoodyMare - A free simulation tool for modelling moored WEC devices	Johannes Palm		
			321	A hybrid linear potential flow - machine learning model for enhanced prediction of WEC performance	Claes Eskilsson		
			476	Design Wave analysis of the M1 wave energy converter device	Orlaine Lynggaard Hansen		
			146	On the state-of-the-art of CFD simulations for wave energy conversion within the open-source numerical framework of OpenFOAM	Alejandro Crespo		
			158	A Study on Wave Energy Conversion Problem of Turbine-Integrated OWC Chamber	Jeong-Seok Kim		
	Oteiza/Tidal hydrodynamic modelling	Tim O'Doherty	503	Large-eddy simulations of interaction between surface waves and a tidal turbine wake in a turbulent channel	Tim Stallard		
			195	ActuatorLine CFD Simulation of Tidal-Stream Turbines in a Compact Array	David Apley		
			218	High-fidelity modeling of a vertical axis tidal turbine model under realistic flow conditions	Mikael Gondeau		
			307	Synthetic eddy generation and modelling of turbine operation in a turbulent tidal flow	Francesco Salvatore		
			367	A study on tidal rotors under the combined effects of currents and waves using actuator-line CFD simulations	Federico Zili de Arcos		
334			Impact of lateral turbine spacing on the performance of a multi-rotor tidal energy device	Bryn Townley			
10:30-11:00	Refreshments, networking & posters exhibition (Terrace and Chillida room)					10:30-11:00	
	Room /Track	Chairman	Paper ID	Title	Presenter		
11:00-12:30	Oral presentations	Baroja/ Wave device development and testing	Claes Eskilsson	187	Experimental evaluation of phase and velocity control for a cycloidal wave energy converter	Andrei Ermakov	
				169	Wave Energy Power Take-off Validation with a Hydrostatic Actuated Rotary Dynamometer and a Bi-directional High-power DC Supply: Methods for validating wave energy converter mechanical and electrical power conversion systems	Casey Nichols	
				212	A Removable elevated three wave generator for testing marine energy devices	Pedro Lomonaco	
				293	Wave energy converter power take-off characterization: comparing dynamometer and field data	Curtis Rusch	
				448	Limiting the available pneumatic power in a U-OWC	Joao Henriques	
		499	HYPERM: The Rapid Prototyping Environment for Wave Energy Control	Alexandra Price			
		Laboar/ Tidal device development and testing	Alberto Peña	285	A methodology for developing a prediction model for the remaining fatigue life and residual strength of tidal turbine blades	Tenris Rangan Munaweera Thambirige	
				177	Multi-Actuator Full-Scale Fatigue Test of a Tidal Blade	Sergio Lopez Dubon	
				203	Experimental techniques for evaluating the performance of high-blockage cross-flow turbine arrays	Aidan Hunt	
				277	Observations from structural testing of full-scale tidal turbine blades	William Finnegan	
	322			Experimental flow conditions effects on a bottom-mounted ducted twin vertical axis tidal turbine compared to real sea conditions	Martin Moreau		
	Arriaga/ Wave hydrodynamic modelling	Markel Peñaalba	498	Experimental comparison of the flow-induced loading between a ducted, bottom-mounted twin vertical axis tidal turbine at still and in-situ loaded conditions	Saouli		
			496	Numerical Simulation of Wave Power Absorption Connected to a Coastal Floating Platform	Thiago Sakamaki Hatate		
			628	Hydrodynamic and Static Stability Analyses of a Hybrid Offshore Wind-Wave Energy Converter: An Expansion of Benthodromedea Floating Wind Turbine Concept	Payam Arouzkhah		
			628	Study with Large Eddy Simulations of energy dissipation due to backwash flows in wave overtopping	Claudio Sandomeni		
			393	Nonlinear WEC modeling using Sparse Identification of Nonlinear Dynamics (SINDy)	Billyann Lydon		
	Oteiza/Tidal hydrodynamic modelling	Iligo Bidaguren	392	Numerical and Experimental Characterization of Resonant Floating Buoy Array	Bryson Robertson		
			486	Development and validation of the 3-bladed hydrodynamic code and the DEM software for TACOS wave energy converter	David Ogden		
			416	A turbine module adapted to the marine site for tidal farms layout optimization	Mikol Puczi		
			442	High-fidelity modeling of a six-turbine tidal array in the Shetlands	Pablo Otero		
			454	Instabilities in tidal turbine wakes	Anna Young		
			505	On the accuracy of BEMT and CFD on the power and load prediction of tidal turbines	Ignacio Maria Vela		
12:30-14:00	Lunch & posters exhibition (Terrace and Chillida room)					12:30-14:00	
	Room /Track	Chairman	Paper ID	Title	Presenter		
14:00-15:30	Oral presentations	Baroja/ Wave device development and testing	Yago Torre-Enciso	242	Experimental investigation into the Air Compressibility Scaling Effect on OWC Performance and Wave Height	André F.L. Gomes	
				185	Enhancing the efficiency of an axial impulse turbine with a diffuser	Geelam Saha	
				280	Numerical performance assessment of a new wave energy conversion system	André F. L. Gomes	
				522	Basin testing of the 1:2-1 M1 WEC	Hugh Wolgamot	
				451	Experimental investigation on Performance of Counter-rotating Impulse Turbine with Mobile Vanes for Wave Energy Conversion	Kichiro Sudo	
		Laboar/ Tidal device development and testing	Daniel Coles	288	Design of an integrated generator and housing buoy	Nick Baker	
				366	A two-scale blockage correction for an array of tidal turbines	Daniel Dehtyrov	
				365	Performance Assessment of a Multi-Rotor Floating Tidal Energy System	Nicholas Kaufmann	
				391	The Influence of the Downstream Blade Sweep on Cross-flow Turbine Performance	Abigale Snorrland	
				420	Additive Manufacturing for Powering the Blue Economy Applications: A Tidal Turbine Blade Case Study	Miguel Gonzalez-Monjito	
	504	Design and Demonstration of a Passive Pitch System for Tidal Turbines	Stefano Gambuzza				
	Arriaga/ Wave hydrodynamic modelling	Sara Russo	164	Wave Amplification Inside an Open Circular Cavity for Wave Energy Conversion in Waters with Medium Energy Density	Jiahui-Hong Chen		
			513	System Identification for Modelling M1 Wave Energy Converter	Xuelin Wang		
			198	Remanufacture and CFD Simulations of a spherical Rotor	Spyridon Zafeiris		
			278	Spectral-Domain Modelling of Wave Energy Converters as an Efficient Tool for Adjustment of PTO Model Parameters	Antonio Jaquín Lagarda		
			333	A multiway analysis of a PtoWEC farm	Beatrice Baraldi		
	Oteiza/Tidal hydrodynamic modelling	AbuBakr Bahaj	538	Effects of control strategies on the performance of floating WEC point absorbers operating attached to a breakwater by sea-ducts	Marissa Bonavita		
			579	Experimental characterization of the wake of a bottom-mounted two tandem of cylinders placed in a high velocity area	Alina Santa Cruz		
			676	Development of a modified BEMT model for the analysis of helical bladed vertical axis tidal turbines	Mohammad Fereidoonmehr		
			199	A comparative study of power production using a generic empirical model in a tidal farm	Kabir Bashir Sharif		
			252	Objective Functions for the Blade Shape Optimization of a Cross-Flow Tidal Turbine under Constraints	Karla Ruiz-Husmann		
			283	Investigating the impact of multi-rotor structure shadowing on tidal stream-turbine performance	Bryn Townley		
15:30-16:00	Refreshments, networking & posters exhibition (Terrace and Chillida room)					15:30-16:00	
	Side events	Mixelena/Side event 4	"SUPPORTING THE FUTURE OF OCEAN ENERGY HERE AND NOW; A GLIMPSE OF BASQUE PUBLIC INITIATIVES TO FOSTER SECTOR SCALE-UP" (by EVE)			16:00-17:30	
Baroja/Side event 5		Technology Performance Level Assessment (TPL) (by SANDIA LAB. -TPL TEAM-)			16:00-17:30		
Arriaga/Side event 6		NEMMO Project, On the Cutting Edge of Tidal Blade Design and Materials (by Ocean Energy Europe)			16:00-17:30		
17:30-19:00	Oral presentations	Room /Track	Chairman	Paper ID	Title	Presenter	
		Baroja/ Wave device development and testing	Luis Gato	318	A Novel Hybrid Floating Breakwater: Wave Energy Converter Device: Preliminary Experimental Investigations	Sara Russo	
				329	Optimised-adapted claim design for wave energy conversion	Jingyi Yang	
				555	The Geometrical Design of the L-shaped Oscillating Water Columns Using Artificial Neural Network	Chen-Chou Lin	
				274	Assessing the surge amplitude of a Rotor through an adaptable mooring lightning technique	Andreas Aslaks	
				516	Reliability and Cost Assessment of Critical Components: Electrical generator failure of DCOM wave energy converter	Julia Fernandez Chozas	
		Arriaga/ Wave hydrodynamic modelling	Jesús M. Blanco	286	Heterogeneous WEC array optimization using the Modern Genetic Algorithm	Ossama Abdelkhalik	
				355	Numerical investigation of a new hybrid floating wind turbine concept	Beatrice Fenu	
				376	Quantification of uncertainty in linear wave energy hydrodynamic models from experimental data	Mahdiyeh Farjand	
				379	An overview of an experimental campaign for arrays of wave energy conversion systems	Nicolas Faedo	
				426	Solution verification of WECs: comparison of methods to estimate numerical uncertainties in the CES wave energy modelling tool	Claes Eskilsson	
		Oteiza/ Tidal hydrodynamic modelling	Pablo Ruiz-Minguela	473	HydroChemo: An Open-Source Hydrodynamics Package for Project Chemo	David Ogden	
				474	Nonlinear hydrodynamics of a heaving sphere in diffraction, radiation, and combined tests	Jana Orzechowska	
				407	Modelling the effects of boundary proximity on a tidal rotor using the actuator line method	Huw Edwards	
				464	Characterisation of turbulent flow and the wake of a tidal stream turbine in proximity to a ridge	Sulaimen Hurebi	
				566	Tidal turbulence in medium depth water: primary a model study	Goran Brostrom	
				316	Verification and validation of blade-resolved viscous-flow tidal turbine simulations	Manuel Rentschler	
				544	Comparison of Actuator Line Modelling of Tidal Power Kites with ADCP Measurements	Nomai Prabahar	
19:00-20:00	Technical programme	Elhuyar	Technical Committee meeting			19:00-20:00	
20:00-22:00	Social programme	Track Directors Dinner					20:00-22:00

Thursday September 7					
Registration (Main Hall)					
08:00-09:00					
Oral presentations	Room /Track	Chairman	Paper ID	Title	Presenter
	Laboa/ Grid integration, power take-off and control	Joao Henriques	472	A time domain approach for the optimal control of wave energy converter arrays	Mohamed Shabara
			493	Optimization of Air turbines for OWC Wave Energy Converters: Sensitivity of Realistic Wave Climates	Ander Zarketa-Astigarra
			500	Integrated hydrodynamic-electrical hardware model for wave energy conversion with M4 ocean demonstrator	Judith Apsley
			409	On data-based control-oriented modelling applications in wave energy systems	Edoardo Pasta
			592	The Performance evaluation of 30kW class OWC wave power plant integrated with breakwater	Kilwom Kim
			161	Investigation on the extreme peak mooring force distribution of a point absorber wave energy converter with and without a survivability control system	Zahra Shahrzooi
	Arriaga/ Wave resource characterization	Joannes Berque	140	Analysis of the North Atlantic offshore energy flux from different reanalysis and hindcasts	Matias Alday
			175	Wave Spectral Analysis for designing Wave Energy Converters	Jesus Portilla-Yandun
			275	Long term wave load trends against offshore monopile structures: A case study in the Bay of Biscay	Nahia Martinez-Irujo
			279	Numerical modeling of wave and tidal current interactions and their impact on wave parameters	Tian Tan
			205	On the errors in annual energy yield estimation due to monodirectional wave spectra assumption	Giuseppe Giorgi
			305	Validation of ERA5 Wave Energy Flux through Sakor diagram in Spain (2005-2014)	Alain Ulazia
	Oteiza/ Economical, social, legal and political aspects of ocean energy	Pablo Ruiz-Minguela	154	Do recent renewable energy policy changes in Ireland satisfy the requirements of a nascent wave energy technology development sector?	Carrie Anne Barry
			157	Integration of wave energy into Energy Systems: an insight to the system dynamics and ways forward	George Lavidas
			306	Can Risk-Based Approaches benefit future Marine Renewable Energy deployment, planning and consenting processes?	Emma Verling
			351	Towards increased social acceptability of marine renewable energy	Niall P. Dunphy
			362	Environmental Effects of MRE: Advancing the Industry through Broad Outreach and Engagement	Deborah Rose
Refreshments, networking & posters exhibition (Terrace and Chillida room)					
Oral presentations	Room /Track	Chairman	Paper ID	Title	Presenter
	Baroja/ Wave device development and testing	Urko Izquierdo	453	The Impact of Uncertainty on the Control of a Multi-Axis Wave Energy Converter	Carrie Hall
			531	Spectral control co-design of wave energy converter array layout	Yerai Peña-Sanchez
			548	A new seawater low-head turbine for the OBREC	Sara Russo
			549	Experimental investigation on the hydrodynamic performance of a pile-supported OWC-type breakwater	Yusuf Almalki
			661	Weight Reduction Methodologies for Wave Energy Devices: A Structural Analysis Approach	Michael O'Shea
			170	Wave Excitation Tests on a Fixed Sphere: Comparison of Physical Wave Basin Setups	Jacob Andersen
	Laboa/ Grid integration, power take-off and control	Eider Robles	215	Wave Farms Integration in a 100% renewable isolated small power system: frequency stability and grid compliance analysis	Marcos Blanco
			309	Wave-to-Wire Control of an Oscillating Water Column Wave Energy System Equipped with a Wells Turbine	Marco Rosati
			510	Maximizing Wave Energy Converter Power Extraction by Utilizing a Variable Negative Stiffness Magnetic Spring	Carlos Michelen
			561	Development of control strategies for novel systems of a full scale OWC for the WEDUSEA project	James Kelly
			346	Enhancing energy system resilience using tidal stream energy	Danny Coles
			551	Analysis of Ocean Energy Integration in Ibero-American Electric Grids	Marcos Lafoz
	Arriaga/ Wave resource characterization	Jesús M. Blanco	529	Impact of Resource Uncertainties on the Design of Wave Energy Converters	Markel Peñaalba
			539	Discussions on Wave energy period in higher wave energy potential marine waters of Taiwan	Shiaw-Yih Tzang
			159	Internal waves: A potentially untapped marine energy resource	Kastubha Raghukumar
			197	Feasibility of wave energy harvesting in the Ligurian Sea	Manuel Alejandro Corrales-Gonzalez
			378	Identification of optimal sites for the deployment of wave energy converters: the importance of a technology-centred approach	Riccardo Novo
	Oteiza/ Economical, social, legal and political aspects of ocean energy	Yago Torre-Enciso	399	Techno-economic optimization of an offshore hybrid power system: Argentine Basin case study	Sarah Palmer
			452	Ensuring Resilience in Ocean Energy Power Plants: A Survey of Cybersecurity Measures	Thailia Nazare
			340	On the complementarity of wave, tidal, wind and solar resources in Ireland	Hafiz Ashan Said
			335	A Comparison of the European Regulatory Framework for the deployment of Wave Energy Converters	Claudio Moscoloni
			507	Ocean Energy: Markets – Currency – Impact. Dimension of & Choices in the Technology Development Space	Jochem Weber
			397	Informing development of a socioeconomic data collection toolkit for marine energy: a literature review	Deborah Rose
Lunch & posters exhibition (Terrace and Chillida room)					
Oral presentations	Room /Track	Chairman	Paper ID	Title	Presenter
	Baroja/ Wave device development and testing	Tony Lewis	350	Performance enhancement of pitching WECs via oscillating water columns technology	Marco Fontana
			357	Numerical investigation of the energy performance of a wave energy converter comprising a multi-body power take-off	Félix Elefant
			395	Hybrid wind-wave systems: The case of the VoltumUS-S semi-submersible platform	Maximilian Hengstmann
			439	Analysis of the viability of a radial Double Decker Turbine for application in Oscillating Water Column devices	Altor Vega-Valladares
			445	An Early Design Phase Method for Characterizing and Comparing Wave Energy Converter Archetypes	Aeron Roach
	Arriaga/ Wave resource characterization	Jose L. Villate	564	Upsampling wave temporal resolution: Investigating wave parameters and the influence on WEC power performance	Hannah Mankle
			619	On spatial interpolation of ocean energy source variables: A comparative analysis	Leonardo Gambarelli
			475	The application of temporal gating in the measurement of response amplitude operators	Natalia Sergienko
			310	Analysis of the impact of floater interactions on the power extraction of a dense WEC array with adaptable nonlinear PTO	Alva Bechlenberg
			483	New design options for the improvement of the Mutriku power plant	Urko Izquierdo
	Oteiza/ Economical, social, legal and political aspects of ocean energy	Jochem Weber	223	Using human-centered design to develop a national research landscape for marine energy in the United States	Samantha Quinn
			385	Choosing Wave Energy Devices for Community Led Marine Energy Development	Molly Grear
			388	A Socioeconomic, Environmental, and Regulatory Assessment for Current Energy Converter Technologies	Jonathan Colby
			413	Floating wind and wave energy technologies: applications, synergies and role in decarbonization in Portugal	Craig White
		436	Wave energy communication and social opposition: can we improve perception of ocean energy development projects?	Maria C. Uyarra	
Closing ceremony	Mixelena Auditorium	Iñigo Ansola	Chair EVE (Basque Agency for Energy)	15:40-15:45	
		Irene Penesis	ICOE 2024 Melbourne (Australia)	15:45-15:50	
		AbuBakr Bahaj	PRIMaRE 2024 Southampton (UK)	15:50-15:55	
		Bruce Cameron	PAMEC 2024 Barranquilla (Colombia)	15:55-16:00	
		C H Jo	AWTEC 2024 Busan (Korea)	16:00-16:05	
		Luis Gato	EWTEC 2025 Madeira (Portugal)	16:05-16:10	
		Cameron Johnstone	EWTEC Executive Board	16:10-16:15	
Social programme	Technical visits: Option 1: MUTRIKU Option 2: BIMEP				
Technical programme	(Executive Board Meeting and Dinner)				

Paper ID	Title of the poster	Authors' List
342	Vortex induced vibrations of marine risers: validating turbulence models	Chang, Wang; Antonis Vakis; Arthur Veldman; Eize, Stamhuis
313	Grid value of co-located offshore renewable energy	Erik, Jonasson; Irina, Temiz
545	Preliminary performance assessment from towing tank testing of a horizontal-axis turbine	David, Lande-Sudall; Sondre, Tollefsen; Kjetil, Gravelseter; Harald, Moen; Jan Bartl
377	Life Cycle Assessment of a wave energy device – LiftWEC	Paula, Bastos; Fiona, Devoy-McAuliffe; Abdel, Arredondo-Galeana; Julia Chozas; Paul, Lamont-Kane; Pedro, Almeida Vinagre
184	Experimental passive and reactive control of a Laboratory Scale WEC Point Absorber	Bret, Bosma; Courtney, Beringer; Bryson, Robertson;
586	Combining offshore wind and wave energy to supply a big size desalination plant	Beatriz, Del Rio Gamero; Julieta, Schallenberg Rodríguez; Pedro, Suarez Arocha
422	Design, installation, capacities and expenses of an indoor multipurpose modular 2D wave flume and circulating water channel	Iñigo, Bidaguren; Natalia, Montalban; Urko, Izquierdo; Iñigo, Albaina; Alberto, Peña; Egoitz, Urtaran; Jesus Maria, Blanco;
578	Experimental Optimization Environment for Developing an Intracycle Pitch Control in Cross Flow Turbines	Stefan, Hoerner; Roberto, Leidhold; Shokrooien, Abbaszadeh; Karla, Ruiz-Hussmann; Timo, Bennecke; Zhao, Zhao; Christian-Tora, Weber; Pierre-Luc, Delafin; Cyrille, Bonamy; Yves, Delannoy
570	Assessment of tidal energy resources in the Strait of Magellan in southern Chile	Leandro, Suarez Atias; Cristian, Escarriaza; Megan Williams; Maricarmen, Guerra;
325	Marine Renewable Energies and Maritime Spatial Planning: different national proposals for their legal and spatial context	Iratxe Mentxaka; Ibon Galparsoro; Emma Verling; Inés Machado; Enored LebBourhis; Thomas Soulard; Juan Bald
542	A Filtering device for improving the quality of cooling water in turbine generator of Sihwa Tidal Power Plant	Taekyun Kim; Hee Jin Kwak; Jee Hun Bang; Mosol Kim; Bem sug Kim
276	A new type of wave tank: prototype and proof of concept	Joannes Berque; Iñigo Zarate; Jesus Maria Blanco; Iñigo Bidaguren; Imanol Touzon; Luisa Fernandez
488	Comparison of physics-based and machine learning methods for phase-resolved prediction of waves measured in the field	Jialun Chen; Thobani Hlophe; Wenhua Zhao; Ian A. Milne; David Gunawan; Adi Kumiawan; Hyg Wolgamot; Paul H. Taylor; Jana Orszaghova
368	Development of the Exowave Oscillating Wave Surge Converter	Sarah Krogh Iversen; Jacob Andersen; Lars Wigant; Peter Frigaard
682	An analysis of the German tidal energy resource	Alexander Korte, Christian Windt, and Nils Goseberg

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Supergen, providing research leadership to connect academia, industry, policy & public stakeholders, inspire innovation & maximise societal value in offshore wind, wave and tidal energy.

