

# IWEA

Irish Wind Energy Association

#iweaautumnconf



## WIND ENERGY - Working for Ireland

IWEA AUTUMN CONFERENCE 2018

10th & 11th October  
Galway Bay Hotel, Salthill, Galway

main sponsor:



supporting sponsors:



# WIND ENERGY - Working for Ireland

## IWEA ANNUAL AUTUMN CONFERENCE 2018

main sponsor:



supporting sponsors:



### WEDNESDAY 10TH OCTOBER

9.00am	Galway Golf Club, Blackrock, Salthill	
9.00	Galway Wind Park Tour	
7.00	Drinks Reception and Golf Presentations	
7.30	Pre-Conference Dinner - Guest Speaker: Brent Pope	

### THURSDAY 11TH OCTOBER

8.00am	Registration, Tea, Coffee & Exhibition Viewing	
--------	--	--

#### SESSION 1 - LETTERMORE SUITE

Time	WIND ENERGY - Working for Ireland	Chair: Peter Harte, Chairman, IWEA
9.00	Dr. David Connolly, CEO, IWEA	A positive vision for wind
9.20	Giles Dickson, CEO, WindEurope	Wind energy and the EU
9.40	Donal Flavin, Strategic Policy Unit, IDA	FDI and Renewable Energy
10.00	Nicholas Lyons, Deputy Head of Sales Ireland, ENERCON	Ready for new challenges
10.20	Questions and Answers	
10.30	Tea, Coffee & Exhibition Viewing	

#### SESSION 2 - LETTERMORE SUITE

Time	Wind Energy in the Economy	Chair: Emma Tinker, Chief Investment Officer, Asper Investment Management
11.00	Dr. Mark Turner, Director, Baringa	Wind 2000-2020: Cost or benefit?
11.20	Caoimhe Giblin, Head of Client Services, ElectroRoute	ISEM: Going live
11.40	James Goldsmith, Cornwall Insight	Renewables support auctions
12.00	Bill Sadlier, Senior Investment Manager, NTR plc	RESS, LCOE and beyond
12.20	Questions and Answers	
12.30	Lunch	

#### SESSION 3 - LETTERMORE SUITE

Time	Working with Communities	Chair: William Carmody, Head of Financial Services, Mason Hayes & Curran
14.00	Justin Moran, Head of Communications & Public Affairs, IWEA	Communities and the RESS
14.20	Andy Fox, Community Engagement Manager, Coillte	Obtaining a social licence to operate
14.40	The Honourable Mary Laffoy	Deliberative democracy: Communicating with the public
15.00	Sinead Dooley, Deputy CEO, Irish Rural Link	Engaging with communities – Lessons from the frontline
15.20	Questions and Answers	
15.30	Tea, Coffee & Exhibition Viewing	

## SESSION 4 - LETTERMORE SUITE

Time	Panel Session - Setting Irelands 2030 Target	Chair: Kevin O'Sullivan, Environment & Science Editor, Irish Times
15.50	Martin Finucane, Head of Division, Strategic Energy Policy, DCCAE	
	Seán Kelly, MEP	
	John Fitzgerald, Director, Grid Development and Interconnection, EirGrid	
	Peter Harte, Project Manager, Greenlink	
	Anne-Marie McCague, Head of Policy, IWEA	
16.40	Questions & Answers	
17.00	Conference Close	

## BREAKOUT SESSIONS - INISHMAAN SUITE

Time	Storage	Chair: Paul Blount, Director, ABO Wind
11.00	Bernice Doyle, Chair Storage Committee, IWEA	Storage in Ireland - an overview
11.20	John Young, EirGrid	DS3 volume capped procurement update
11.40	David Halpin, Rates Consultant, Eamonn Halpin & Co Ltd	Rates for storage projects
12.00	Thomas Horgan, GE Power	An international perspective on storage in Ireland
12.20	Questions & Answers	
12.30	Lunch	

Time	Opportunities in Asset Management	Chair: Shelia Layden, Director, EnergyPro
14.00	Keir Harman, Director, Renewables Operations, DNV GL	Dynamic operations strategies including wake steering and whole wind farm control – additional energy and extended life
14.20	Dave Ash, Wind Services - Repower Product Manager, GE	Repower upgrades
14.40	Iain Dinwoodie, Senior Asset Performance Engineer, WEBS	Wind energy benchmarking
15.00	1. Utility - Robert Farrell, Renewables O&M, ESB 2. Investor - Joe Dalton, Asset Management Director, NTR plc 3. Service Provider - Marc McLoughlin, Business Development Manager, Natural Power 4. OEM - John Brennan, Sales Manager, Enercon	What is Asset Management? Four different perspectives
15.20	Question and Answers	
15.30	Tea, Coffee & Exhibition Viewing	

## THE SPEAKERS



**Peter Harte** is currently the Chief Technology Officer and Director at Element Power Ireland, based in Cork. Element Power Ireland has successfully developed a national portfolio of c350MW under Development, c120MW of projects under Construction, and c100MW in Operation. Element Power Ireland is also developing the Greenlink project, which plans to develop a 700MW interconnector between Wales and Great Island. Peter is Chairman of the Irish Wind Energy Association (IWEA) and previously chaired the Grid and Markets Committees. He holds a B.Eng in Mechanical Engineering at the University of Limerick.



**Dr. David Connolly** is CEO of the Irish Wind Energy Association (IWEA) which is Ireland's largest renewable energy association. IWEA works with a wide range of internal and external stakeholders to build understanding and awareness of the benefits of Irish wind and renewable energy, and to ensure that Irish wind energy continues to provide clean, cost effective electricity to communities, businesses, factories and homes across Ireland. Previously, David was an Associate Professor in Energy Planning at Aalborg University in Copenhagen where his research focused on the design and assessment of 100% renewable energy systems for electricity, heat, and transport. He graduated as a Mechanical Engineer in 2007 and completed a PhD in energy modelling in 2011, both at the University of Limerick. More information is available on his website: [www.dconnolly.net](http://www.dconnolly.net).



**Giles Dickson** is the Chief Executive Officer of WindEurope (formerly EWEA). WindEurope is the voice of the European wind industry. It represents the entire value chain of wind power: turbine manufacturers, component suppliers, power utilities, project developers, financial institutions and research institutes. It engages Governments on policy and regulation that affect wind power and its integration in the energy system. It coordinates research and development for the wind industry in Europe and manages the European Technology Innovation Platform for wind on behalf of the EU Commission. Prior to joining WindEurope, Mr. Dickson was Vice President of Global Public Affairs at Alstom. Before that he was a civil servant in the UK Government for over 15 years.



**Donal Flavin** is Strategic Policy Manager, IDA Ireland, with responsibility for public policy in energy, telecommunications, digital and data. He is a member of the Government (Department of the Taoiseach) Data Forum. Prior to 2018, Donal was Vice President, Technology Group, IDA Ireland, where he had responsibility for technology investment from the US. He served on the Board of Microelectronic Circuits Centre Ireland (MCCI) from 2010 to 2015. Donal was Regional Executive, West/Mid West, IDA Ireland from 2003 to 2006. Donal has agricultural science and MBA degrees from University College Dublin (UCD).



**Nicholas Lyons** is Deputy Head of Sales Ireland within ENERCON, Nick and his ENERCON team are responsible for ENERCON installing over 1.2GW on the island of Ireland. Nick's background is in Civil Engineering, he has a Master's in Business and Entrepreneurship. Before joining ENERCON, Nick worked in wind farm development which gives him a greater understanding when it comes to new clients wishing to develop their own wind farms. Nick also sits on IWEA's council.



**Emma Tinker** is Chief Investment Officer of Asper Investment Management, launched in 2016 as the spin-out of HgCapital's renewable energy business which Emma founded in 2003. Asper is a specialist investor in sustainable real assets. Asper manages two renewable energy funds totalling €50 million as well as strategic investment accounts for institutional investors in European markets. Emma is responsible for Asper's investment strategy and is Chair of the Investment Committee. She has led investments across Europe, including Invis Energy, one of Ireland's largest onshore wind companies. Emma is also a non-executive director of Good Energy Group plc.



**Dr. Mark Turner** is a Director in Baringa's Energy Advisory practice, with ten years' experience in European electricity markets. He is a seasoned advisor on regulation and policy, market analysis and modelling, transactions and routes to market. Mark is an expert in the Irish Single Electricity Market, and has worked with all the major utilities active in Ireland, lenders, equity investors and infra funds, large energy users, government and regulators. Recent work has focussed on commercial readiness for I-SEM go-live, engagement with DCCAE on REFIT, and assessment of the consumer cost of different RES-E 2030 targets.



**Caoimhe Giblin**, a Chartered Accountant, leads Client Services at ElectroRoute. In previous roles, Caoimhe was Head of Corporate Finance at Airticity and Director of Finance at SSE Renewables. At ElectroRoute, Caoimhe has grown the Client Services unit to be the leading energy trading services provider in Ireland with over 1GW of independent generation under management.



**James Goldsmith** started his career as a graduate engineer with EDF Energy in the UK. Working as a mechanical design engineer, he spent time across their operational Nuclear fleet as well as a period working on the Hinkley Point C Nuclear New Build project. Transitioning into the offshore oil and gas sector to take up the role as a project manager, he worked on projects that targeted marginal oil and gas plays in the Middle East using conductor supported platforms. Returning to Ireland, James joined ESB as a project director in their Asset Development department, leading concept and development biomass and EFW projects. James now works with Cornwall Insight providing consultancy, training and reports to those looking to develop the next generation of energy Assets in Ireland.



**Bill Sadlier** leads NTR's business development and financing activities in Ireland, focusing primarily on wind and solar renewable energy as well as energy storage. NTR is an active renewable energy investor in Ireland since 1999 and it is now building on its experience to partner with developers and communities to deliver projects through its new €500m 30 year fund which has an allocation to finance development capital. Having joined the industry in 2004, Bill has experience across all aspects of the project life cycle including greenfield development, procurement, project finance and private equity in Ireland, the United Kingdom, Spain, Portugal, France and the Nordics. He is a founding member of RECAP (Renewable Energy Consumers and Producers) working with the Irish Government and energy consumers to deliver the build-out of renewable energy targets in Ireland.



**William Carmody** is the Head of Mason Hayes & Curran's Financial Services team. He represents financial institutions and corporate borrowers on a range of secured and unsecured lending transactions, including project finance, leveraged M&A, financing of commercial real estate investments and development, corporate working capital debt requirements and Irish law issues in multi-jurisdictional finance transactions. Will's project finance practice has a particular emphasis on the financing of renewable energy projects and he has advised project sponsors, bank funders and investors on the development of wind, solar and biomass electricity generation projects. He has also advised on the financing of infrastructure investment and development in the transport, health, education and accommodation sectors.



**Justin Moran** is the Head of Communications and Public Affairs with the Irish Wind Energy Association. Prior to this he was the head of advocacy and communications with Age Action, Ireland's leading advocacy organisation for older people, for three years after having worked with EirGrid, the national transmission system operator on the Grid Link Project. He holds a Degree in Journalism and a Masters Degree in International Relations from Dublin City University.



**Andy Fox** is a highly experienced Community Development professional with extensive field and strategy level experience in Ireland, as well as several countries in Africa and Asia. His expertise is primarily in the areas of policy, strategy design and implementation and diverse programme implementation. Since joining Coillte in early 2017, Andy has had full responsibility for the development and implementation of a market leading Community Engagement Strategy. The new strategy is a central pillar of Coillte's ambition to be the lead developer of Irish onshore wind projects in the coming 10 years. Prior to joining Coillte, Andy worked in the Overseas Development sector. Andy sits on the IWEA Community Engagement Committee and is also active in the IEA Task 28 working group on the Social Acceptance of Wind Energy.



**The Honourable Mary Laffoy** graduated from University College Dublin with a B.A. degree in 1968. Subsequently, between 1968 and 1971 she studied law at University College Dublin and at the Honorable Society of King's Inns in Dublin. She was called to the Bar in July 1971. She practised as a barrister from the Michaelmas term in 1971 until her appointment to the High Court. She was admitted to the Inner Bar in the Michaelmas term of 1987. She was appointed a Judge of the High Court in April 1995. While on the High Court Bench, she was primarily involved in civil litigation, principally in the area of chancery law. She was appointed to the Supreme Court in October 2013 and retired in June 2017. In July 2016 she was appointed by the Government to chair the Citizens Assembly, which met from October 2016 to April of this year and which examined a range of topics including how the State can make Ireland a leader in tackling climate change.



**Sinead Dooley** joined Irish Rural Link last year as Deputy CEO. Sinead has extensive experience in stakeholder engagement, community consultation and Public Affairs with 12 years' experience as PA and Constituency Advisor to a Government Minister/Taoiseach. Sinead was also an elected public representative on Offaly local authority from 2004 – 2017 and was Chairperson 2014-2015 during which period she represented the Council at the highest civic level both at home and internationally. As Chairperson of the Special Policy Committee for Planning and Economic Development she navigated the implementation of a Wind Strategy as part of County Development Plan which involved public consultation, facilitation of meetings between various interest groups and stakeholders and negotiation with elected representatives and officials.



**Kevin O'Sullivan**, is Environment & Science Editor with The Irish Times. His brief includes climate change, renewable energy and sustainability. He also edits a weekly Science Page. He has held various positions including News Editor and Editor of The Irish Times. He has a science degree from UCD and a post-graduate degree in journalism from DCU. Prior to working in regional journalism, he co-founded a successful freelance journalism agency.



**Martin Finucane** is the Principal Officer leading the Strategic Energy Policy Division within the Department of Communications, Climate Action and Environment. He has responsibility for energy policy development and coordination including preparation of the National Energy and Climate Plan as well as broader European Union and international energy policy. He previously worked as Head of Finance and the Renewable Energy Division in the Department.



**Seán Kelly – MEP** has been a member of the European Parliament for Ireland South since 2009. He is the current leader of Ireland's Fine Gael (EPP) party in the European Parliament. Mr. Kelly sits on the European Parliament's Committees on Industry, Research and Energy (ITRE), International Trade (INTA) and Fisheries (PECH). He is a member of the European Parliament Delegation for relations with the United States, Delegation for relations with Iran and of the Delegation for relations with countries of Southeast Asia and the Association of Southeast Asian Nations (ASEAN).



**John Fitzgerald** was appointed Director of Grid Development & Interconnection in July 2015, having previously held the position of Director of Grid Development since February 2013. Prior to this, John was Project Director of the East West Interconnector, directly connecting the electricity markets of Ireland and Britain for the first time. Before joining EirGrid, John was involved in the area of business development for ESB International where he held a number of management positions including Business Development Manager, Manager for Trading and Supply (Northern Ireland) and Commercial Manager for Coolkeeragh ESB. John has been involved in the successful development of major energy infrastructure projects and corporate initiatives in the electricity and gas sectors across Ireland, the United Kingdom and Europe. A graduate of University College Dublin, he is a Bachelor of Electronic Engineering and holds an MBA from the UCD School of Business.



**Anne-Marie McCague** took up the position of Head of Policy in August 2018. Anne-Marie has previously worked in the power and water industry in Ireland including EirGrid, CRU and project consultations, RPS. She has experience in electrical grid development, wholesale electricity market development, policy development, stakeholder engagement and advocacy work. Anne-Marie will lead IWEA's Policy team and in particular, the work of IWEA's Markets and Grid Committees, along with the corresponding overlaps in IWEA's Offshore and Storage Committees

## BREAKOUT SPEAKERS



**Paul Blount** is a full-time Director of ABO Wind Ireland, a subsidiary of ABO Wind AG, a leading multi national wind energy development company, part time renewables integration researcher. He is also chair of IWEA's new Energy Systems Committee which among other things, has a remit to generate, procure and advocate for the generation of robust evidence supporting high RES-E ambition levels, and to identify and support other technologies and developments that create headroom for the development of more wind energy on the system.



**Bernice Doyle** is the Grid Manager for Element Power in Ireland and is responsible for delivering grid for Element Power's Irish portfolio. She also manages Element Power's DS3 Management Services business in Ireland which has deployed DS3 System Service contracts on multiple wind farms since May 2018. Bernice is chair of the IWEA Storage Committee, sits on the IWEA Grid Committee and is vice-chair of the Engineers Ireland Energy and Environment committee. Prior to joining Element Power in 2015, Bernice worked with SSE and Airticity for 12 years in various engineering management roles. She is a Chartered Electrical Engineer and a graduate from University College Dublin.



**John Young** works on EirGrid's DS3 Programme ('Delivering a Secure Sustainable Electricity System') which seeks to address the challenge of integrating world-leading levels of renewable generation onto the power system in Ireland and Northern Ireland. He is currently leading the development of the DS3 System Services 'Volume Capped' competitive arrangements, which seek to provide contractual arrangements suitable for aspiring entrants. Prior to joining EirGrid, John spent seven years working for National Grid TSO in Great Britain, most recently as European Codes Development Manager, responsible for the negotiation and implementation of European legislation.



**David Halpin** Following completion of a two subject moderatorship in Music and History at Trinity College Dublin in 2011, Mr. Halpin studied Real Estate at DIT, graduating with a first class honours at Masters level in 2015. Mr. Halpin specialised in rating law and practice at final stage. Mr. Halpin has worked for Eamonn Halpin & Co. Ltd. since 2010 as a surveyor/negotiator. The company was founded in 1995 and specialises in rating matters.



**Thomas Horgan** joined General Electric in 2012 bringing with him over 25 years of engineering design and development experience across a wide range of industries. His initial work at GE focused on cell design and reliability in the Durathon Battery manufacturing plant, leading multiple yield and performance improvement teams and driving reliability growth. Mr. Horgan transitioned to system analysis, modeling and design and was a key component in the pivot to Lithium Ion based systems, beginning in 2014. He was appointed Engineering Leader in 2017 and lead the team through a restructuring period that culminated in several accomplishments including the commissioning of the first thermal hybrid system (Hybrid EGT™, 2017 Edison Award Winner), the first successful black start of a gas turbine and the design and installation of the largest Energy Storage System in the U.K., commissioning in November of this year.



**Sheila Layden** is a director of EnergyPro, who specialise in the analysis and management of operational windfarms. Over the past number of years, she has focussed on driving the growth of EnergyPro to its current roster of 13 windfarms and 215MW under management. In addition, EnergyPro offer specific performance and availability analysis services for operational windfarms, and provide iSEM data management support services. Sheila has particular experience in the area of windfarm management, having continuously managed windfarms in Ireland for over 20 years. Through a group company, Moneenatieve Wind Farm Ltd, Sheila has also developed two windfarms, totalling 12 MW, which have been operational since 2005. Sheila is chair of IWEA's Asset Management Committee.



**Keir Harman** is Director of Renewables Operations at DNV GL (formally Garrad Hassan). He has worked in the wind energy industry for 20 years spending the past 15 years founding, developing and running the global operational wind farm services for Garrad Hassan. This is now a key business area within DNV GL where Keir has expanded DNV GL's capability to full operational management and control room services. He presently directs the renewable operations business including asset management, inspections, performance monitoring and energy forecasting. Keir has previously worked for Innogy (RWE) and holds an MSc in Renewable Energy Systems from the University of Loughborough, UK and is a Chartered Engineer.



**David Ash** serves as the Manager for GE Repower products for GE Renewable Energy - Onshore Wind Services business. Previously, Mr. Ash was responsible for the product management of the GE Onshore Wind new turbine development. Since joining GE Power, in 1991, Mr. Ash has held various GE leadership positions in Gas Turbine power generation, control upgrades, and nuclear services. Mr. Ash joined GE's wind business in 2006. Mr. Ash holds a B.S. degree in Mechanical Engineering from Rensselaer Polytechnic Institute and graduated from General Electric's Field Engineering Program.



**Iain Dinwoodie** Iain has worked at Natural Power since 2016 and WEBS since 2017, bringing 10 years of experience in the wind industry. During this time, Iain's work has covered a wide range of operational and performance aspects of on and offshore wind energy. This has included projects covering operational modelling and decision making under uncertainty, evaluation of reliability centered maintenance applied to wind, reliability performance analysis, LCOE assessment and comparison of CFD and LIDAR measurements. His role within Natural Power and WEBS is focused on improving the performance and value of O&M analysis from a variety of operational data sources including SCADA, CMS, grid services, forecasting and expert knowledge within the asset management and ControlCentre teams at Natural Power and industry wide data analysis. Iain has a MEng in Mechanical Engineering with Aeronautics and a PhD on the reliability, operations and maintenance of offshore wind turbines, both from the University of Strathclyde.



**Robert Farrell** is an experienced Operations and Maintenance Engineer working for ESB, the leading Irish Electrical Utility, operating in generation, transmission, distribution and supply in the UK & Irish electricity markets. Robert joined ESB in 2008 and has worked in Concept, Development, Design and Construction phases of ESB's Wind Farm Portfolio (currently at 583MW and growing). Moving into ESB's Renewables Operations & Maintenance Department in 2013, part of Robert's role involves the development and integration of standards and procedures, including management of compliance with ISO 55001 (and previously PAS55).



**Joe Dalton** is currently Asset Management Director at NTR, where he is responsible for construction and operations of the NTR renewable energy portfolio. NTR has most recently constructed and operates wind assets throughout UK and Ireland. Joe has worked for over 30 years in both conventional and renewable energy generation, utilising wind, solar, coal, oil and gas turbine technologies. He has travelled extensively, conducting technical due diligence on renewable energy equipment manufacturers throughout Europe, USA and China, and has negotiated equipment, balance of plant and EPC contracts for over 800MW of wind projects and 100MW of solar projects. Prior to NTR, Joe worked for Mainstream Renewable Power, where he conducted technical due diligence for a range of onshore and offshore wind projects and devised methodologies to reduce Life cycle costs and risk associated with offshore wind farms. Joe held a number of technical roles in ESB, where he oversaw operational performance and risk management for its' power generation fleet. He devised and implemented its lifetime asset management (LTAP) planning process. Joe is a Chartered Engineer and holds an MSc (Maintenance Management) from Manchester University and a BE Mechanical Engineering from University College Dublin.



**Marc McLoughlin** is a renewable energy professional with over 14 years' experience in the Irish, UK and European markets. He has previously held a number of senior roles with a focus on large scale windfarm operations, maintenance and asset management allowing him to develop a broad range of skills. Marc has significant experience in relation to the development and construction of renewable energy projects having played a key role in the transition of 23 windfarm projects into their operational phase. He also has extensive experience in relation to long term business strategy for asset management.



**John Brennan** began as a sales manager with ENERCON in January 2018 where he is now primarily responsible for the planning, coordination, selling and processing of wind energy projects across Ireland and Northern Ireland. Prior to beginning with ENERCON, John worked with Wood (previously SgurrEnergy) as a senior consultant based in Vancouver, Canada where he oversaw due diligence work on pre-construction/acquisition wind and solar farms. As part of the due diligence process John also lead teams undertaking site inspection work on sites in North and South America. John was also a member of the power performance testing team responsible for design and installation of power monitoring equipment and installation of the meteorological masts, all to IEC standards. Prior to this John was employed by Siemens Wind Power as a field service engineer with the primarily responsible for major component inspection, repair and replacement across Ireland and Northern Ireland. During his time with Siemens John also gained considerable experience in wind farm operation, new unit commissioning and installation. John graduated from University College Dublin with a degree in Bio-systems Engineering in 2006 and went on to do a Masters of Renewable Energy Engineering at Heriot Watt University in 2009.



# IWEA Offshore Forum



Thursday 8<sup>th</sup> November 2018  
Arklow Bay Hotel, Arklow,  
Co Wicklow



**IWEA**  
Irish Wind Energy Association

Save the date  
25<sup>th</sup> January 2019

**IRISH WIND INDUSTRY AWARDS**  
Black Tie Gala Ball

Clontarf Castle Hotel,  
Clontarf, Dublin 3

Main sponsors



Supporting sponsors

**ARTHUR COX**

**MASON HAYES & CURRAN**

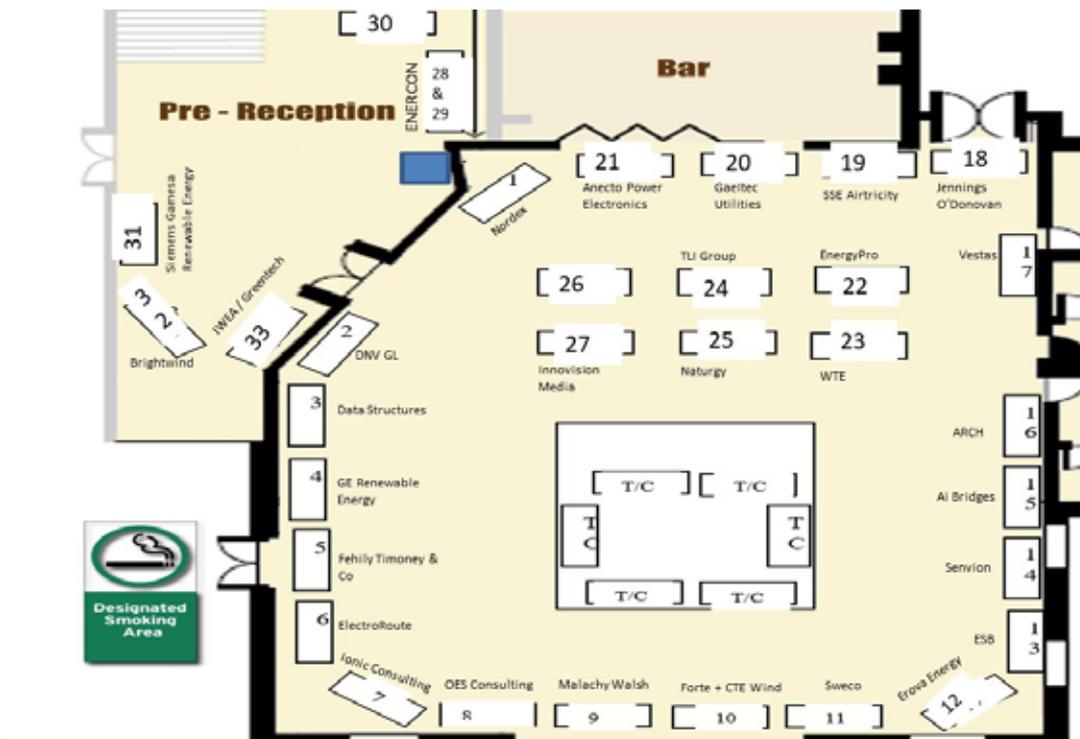


IWEA Annual Spring Conference  
**12<sup>th</sup> & 13<sup>th</sup> March 2019**  
Clayton Hotel, Burlington Road, Dublin

# EXHIBITING COMPANIES



# EXHIBITOR FLOOR MAP



Irish Wind Energy Association Sycamore House, Millennium Park, Osberstown, Naas, Co. Kildare.

Telephone: +353 (0)45 899341