



**NSAI**  
Standards

# Annual Report 2019

## NSAI ETC TC 20

National Standards Authority of Ireland (NSAI)  
Electrotechnical Committee (ETC) Technical Committee (TC) 20

### **Smart Grids, Renewables, Electric Vehicles, Energy Efficiency and Energy Storage**

## 1. Scope

Working under the direction of the NSAI ETC Technical Management Committee, ETC TC20 is responsible for coordinating the Irish input to the standardization work of the IEC and CENELEC in the areas of smart grids, renewable energy, electric road vehicles, energy efficiency and energy storage.

### 1.1. International TCs Mirrored

These are the following committees mirrored in full or in part by the TC:

- IEC TC 8, CLC TC 8X – Systems aspects of electrical energy supply
- IEC TC13 – Electrical energy measurement and control
- IEC TC21 – Secondary cells and batteries
- IEC SC22F – Power electronics for electrical transmission and distribution systems
- IEC SC23H – Industrial plugs and socket outlets
- IEC TC 57 – Power systems management and associated information exchange
- IEC TC 64 – Electrical installations and protection against electric shock
- IEC TC 69, CLC TC 69X – Electric road vehicles and electric industrial trucks
- IEC TC 72 – Automatic electrical controls
- IEC TC 82 – Solar photovoltaic energy systems
- IEC TC 88, CLC TC 88 – Wind Energy
- IEC TC 95 – Measuring relays and protection equipment
- IEC TC 105 – Fuel cell technologies
- IEC TC 120 – Electrical Energy Storage (EES) Systems
- CEN-CLC-ETSI Smart Energy Grid Co-ordination Group (SEG-CG)
- CEN-CLC-ETSI Smart Meters Co-ordination Group (SM-CG)

## 1.2. Irish Industry/Sector

This TC follows topics related to Smart and Renewable Energy and its related electrical implications. This is a large and quite diverse area affecting the electricity sector for Ireland and Europe.

## 2. Review of the Year 2019

The committee had some changes to the membership during the year with some members retiring and being replaced by some new ones. Overall the number of members participating in the work of the committee has increased.

In line with the change of membership, the scope of this committee was reviewed, and it was felt that the area of renewables and energy storage is of more interest to the current members and to Ireland in general. This led to a review of the IEC and CENELEC committees which the group is following.

## 3. NSAI ETC TC 20 Membership 2019

Name	Organisation represented	Role
Gerard Buckley	Utility Consultancy Partners	National chairperson
Noleen Campbell	NSAI	National secretary
Kieran Beausang	ESB	National committee member
Martin Betz	Glen Dimplex	National committee member
Tomas Blodau	Consulting Engineer	National committee member
Raymond Byrne	Dundalk Institute of Technology	National committee member
Gerard Eastwood	IET	National committee member
John Fitzgerald	Impact 9	National committee member
Patrick Foley	ESB	National committee member
John Ging	Eirgrid	National committee member
Tony Hearne	ESB	National committee member
Gerard Hurley	NUI Galway	National committee member
Eugene McKeown	RPS Group	National committee member
Brendan McMahon	ESB	National committee member
Conor Mullaney	Glen Dimplex	National committee member
Liam Mulligan	Consultant	National committee member
Martin Murnane	Analog Devices	National committee member
Michael O'Donovan	Cork Institute of Technology	National committee member
John O'Halloran	ABB	National committee member

Hugh O'Kelly	Mott McDonald	National committee member
Sean McGuinness	EPRI	National observer
Kevin Niall	ESB	National observer
<i>New Members</i>		
Patricia Brown	Electric Power Research Institute (EPRI) Europe	National committee member
Robert Fenlon	UCD Connect	National committee member
Mohammad Mousavi	RPG Power Systems	National committee member
Laura Plunkett	Single Electricity Market Operator (SEMO)	National committee member
Kevin O'Connor	ESB	National committee member
<i>Retired Members</i>		
Kenny McDonnell	ESB	National committee member
Anthony Walsh	ESB	National committee member

## 4. International Meetings

Committee members attended international CENELEC (CLC) and IEC meetings as follows:

Committee Name	Location	Date	Name of Attendee
IEC /TC 88/WG 15	Copenhagen, Denmark	17-19 Jan, 2019	Tomas Blodau
IEC /TC 57 WG 13 & WG 14	North Carolina, USA	February, 2019	Patricia Brown
IEC /TC 57 WG 13 & WG 14	Brussels, Belgium	June, 2019	Patricia Brown
IEC /TC 57 WG 13 & WG 14	Washington, USA	September, 2019	Patricia Brown
IEC /TC 88/WG 15	Copenhagen, Denmark	17-19 Sep, 2019	Tomas Blodau
IEC /TC 88/ PT61400-28	Porto, Portugal	2 Oct, 2019	Tomas Blodau
IEC /TC 120	Florence, Italy	12-14 Nov, 2019	Hugh O'Kelly
CENELEC /TC 8X	Brussels, Belgium	21 Nov, 2019	Tony Hearne
IEC /TC 69 /JWG 11	Virtually	Bi-monthly	Brendan McMahon

## 5. National Meetings

Committee members attended the following national meetings in NSAI as follows:

Meeting No.	Date	Minutes Reference
1	06 Mar 2019	N0638
2	25 Sep 2019	N0642

## 6. Programme for Coming Year 2019

The committee plans to continue to incorporate a site visit into each of its meetings in 2020. This will allow for, not only, a change of location to suit some distant members but also as an opportunity to gain some working knowledge of certain sectors.

## 7. Additional Information

The photo of the committee is below:

