



NSAI

ANNUAL REPORT 2019

NSAI TECHNICAL COMMITTEES
(NSAI/ETC)

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1 Chairman's Statement

This year saw the continued good work of the second full year of activity for the NSAI Electrotechnical Committee (ETC). We are grateful to our many experts who give their time and technical expertise to our technical committees. Our activities include a wide range of sectors including electrical installations, household products, internet devices, mobile phones, energy systems and cars.

An important part of our work in 2019 was to develop the new edition of the national wiring rules I.S. 10101. TC2 put in intense effort to develop the new rules which are ever changing because of the introduction of new technologies including electrification of the automotive industry and energy efficiency. The new National Wiring Rules were open for consultation during 2019. It is the first major revision to the standard in over a decade. Important changes have been made in areas like electrical installation, safety and energy efficiency. The draft revisions will improve safeguards and bring industry requirements in line with technical developments and best practice in Europe.

All the NSAI ETC Technical Committees continue to monitor and develop standards in areas as diverse as electrical safety, smart grids, energy efficiency, explosive atmospheres, environmental issues, electromagnetic compatibility and human health. Many of these areas are essential to support European Directives.

The speed of innovation has accelerated to the point where no company can do everything alone anymore; collaboration has become more important than ever. The ETC technical committees are heavily involved in new technology areas such as energy efficiency, smart grids, Internet of Things, environmental standardisation for electronic components and 5G.

The theme for the IEC general meeting in 2019 was "Better Quality Better Lives". In the new wave of industrial revolution, the role of standards and conformity assessment as quality infrastructure for economic and social development was addressed. Standards are the facilitator of innovation and environmentally sustainable growth. The impact of its standardisation addresses many global challenges, such as universal energy access, sustainable urbanization and energy efficiency.

In the future broad societal challenges will require integrated technology solutions. The work of the ETC actively reaches out too many technology sectors, to optimize outcomes, and reduce waste and cost for stakeholders.

2 Introduction

NSAI has established the consultative Electro Technical Committee (ETC) to advise NSAI on technical and policy matters concerning Ireland's membership of the International Electrotechnical Commission (IEC) and European Committee for Electrotechnical Standardization (CENELEC), the formulation of Irish Standards and the establishment and maintenance of the infrastructure of NSAI national mirror Technical Committee. The membership of the ETC is composed of key stakeholders/collective bodies that provide an authoritative and representative voice or policy role in the electrical sector.

The industry currently has 543 number of experts involved in international work

3 Scope of TC

The NSAI ETC extends to all areas of electro-technology covered by the IEC and CENELEC, and to the extent from time to time agreed with NSAI, certain areas of the work of the European Telecommunications Standards Institute (ETSI), the International Organization for Standardization (ISO) and the European Committee for Standardization (CEN) or other relevant standards organisations.

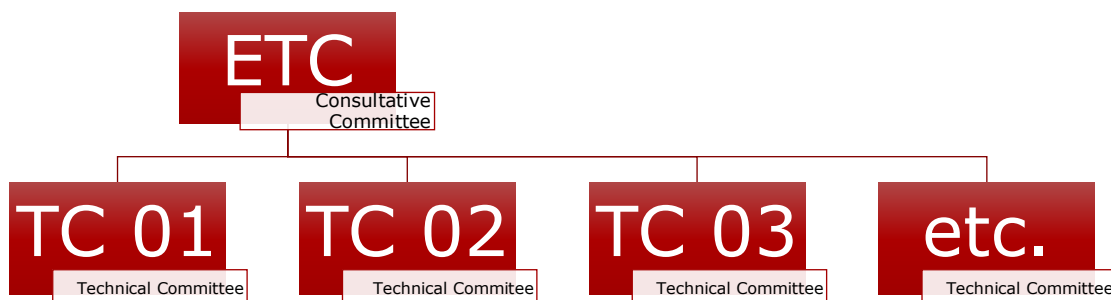
The committee does not mirror international committees; Its function is to provide oversight to the following technical committees:

Committee Name	Committee Title
NSAI/ETC/TC 01	Safety of household and similar electrical appliances
NSAI/ETC/TC 02	Electrical Installations
NSAI/ETC/TC 03	Power installations exceeding 1kV (1.5kV dc)
NSAI/ETC/TC 04	Switchgear, control gear and associated equipment
NSAI/ETC/TC 06	Equipment for potentially explosive atmospheres
NSAI/ETC/TC 10	Electrical equipment in medical practice
NSAI/ETC/TC 11	Safety of Electronic Equipment within the field of Audio/Video, Information Technology and Communication Technology
NSAI/ETC/TC 12	Electronic Communications Systems
NSAI/ETC/TC 13	Alarm systems
NSAI/ETC/TC 14	Electric cables
NSAI/ETC/TC 15	Human exposure to electromagnetic fields
NSAI/ETC/TC 16	Electromagnetic Compatibility
NSAI/ETC/TC 18	Marine energy - Wave, tidal and other water current converters
NSAI/ETC/TC 19	Insulators and Surge Arresters
NSAI/ETC/TC 20	Smart Grids, Renewables, Electric Vehicles and Energy Efficiency
NSAI/ETC/TC 21	Electrostatics
NSAI/ETC/TC 22	Environmental Standardization for Electrical and Electronic Products and Systems

4 Structure and Membership

4.1 Structure

The Figure below illustrates the structure of the Committee:



4.2 Members

The table below provides the names of the committee members for the year:

Name	Organisation	Role	Initials
Geraldine Larkin	(NSAI)	National PRESIDENT	GL
John McAuley	(CEI) (Chair NSAI/ETC/TC 15) (Chair NSAI/ETC/TC 16) (Chair NSAI/ETC/TC 21)	National CHAIR	JMA
Enda McDonnell	(NSAI)	National SECRETARY	EMcD
Adrian Harney	(ESB)	National committee member	AH
Brian Flanagan	(AECI)	National committee member	BF
Charles Dunn	(CIBSE) (Chair NSAI/ETC/TC 02)	National committee member	CD
Chris McLoughlin	(IET)	National committee member	CLM
Gerard Buckley	(Independent Consultant) (Chair NSAI/ETC/TC 20)	National committee member	GB
Helen Kieran	(CCPC)	National committee member	HK
Jim O'Sullivan	(OPW)	National committee member	JOS
Justin Tallon	(NSAI)	National committee member	JT
Keith Sunderland	(DIT)	National committee member	KS
Mark Keogh	(EMDA) (EIFI)	National committee member	MK
Martin Hand	(TEF)	National committee member	MH
Owen Wynne	(EIR)	National committee member	OW
Padraig Delaney	(HSA)	National committee member	PDY
Paul Dunne	(DCC)	National committee member	PD
Peter Moran	(Comreg)	National committee member	PM
Pierce Martin	(RECI)	National committee member	PMN
Sean Downey	(ECA)	National committee member	SD
Tara Scully	(CRU)	National committee member	TS
Colin Fitzpatrick	(Chair NSAI/ETC/TC 22)	National observer	CF
Dominic Robinson	(Chair NSAI/ETC/TC 14)	National observer	DR
Kevin O'Connor	(Chair NSAI/ETC/TC 03)	National observer	KOC
Martin Betz	(Chair NSAI/ETC/TC 01)	National observer	MBZ
Mel Gannon	(Chair NSAI/ETC/TC 21)	National observer	MG
Michael Bergin	(Chair NSAI/ETC/TC 13)	National observer	MB
Michael O'Brien	(Chair NSAI/ETC/TC 06)	National observer	MOB
Paddy Fitzsimons	(Chair NSAI/ETC/TC 12)	National observer	PF
Peter Grainger	(Chair NSAI/ETC/TC 10)	National observer	PG
Peter Kelleher	(Chair NSAI/ETC/TC 11)	National observer	PK
Ray Alcorn	(Chair NSAI/ETC/TC 18)	National observer	RA
Timothy Condon	(Chair NSAI/ETC/TC 19)	National observer	TC
Linda Hendy	(NSAI)	National secretary support team	LH
James Clarke	(NSAI)	National secretary support team	JC
Noleen Campbell	(NSAI)	National secretary support team	NC
Sharon Nevin	(NSAI)	National secretary support team	SN
Yvonne Wylde	(NSAI)	National secretary support team	YW

5 Summary of 2019 Activities

5.1 National

5.1.1 Meetings

Committee Members attended the following National meetings in NSAI as follows:

Meeting No.	Date	Minutes Reference
1	17 th January 2019	N0033
2	9 th May 2019	N0037
3	12 th September 2019	N0043

5.1.2 National Work

Highlights and decisions for 2019 included:

- Three national meetings at NSAI, meaning a total of nine meetings have now taken place since the formation of the ETC on the 20th March 2017.
- The new National Wiring Rules were open for consultation during 2019
- ETCI publications deemed important for the work of NSAI TCs were formally transferred to NSAI via a deed of transfer prior to the end of 2018
- NSAI/ETC/TC 03 were granted approval by the ETC committee for the publication of S.R. 61936 in September 2019

5.2 International/Regional

5.2.1 Meetings

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

Committee Name	Location	Date	No. of Attendees	Attendees
161 st CENELEC BT	Brussels	6 th & 7 th February	1	YW
162 nd CENELEC BT	Brussels	28 th & 29 th May	1	YW
CLC General Assembly	Bucharest	June	4*	GL (HoD), EMcD, YW
CLC CA (Admin. Board)	Leuven	March	1	GL
CLC CA (Admin. Board)	Bucharest	June	1	GL
CLC CA (Admin. Board)	Brussels	November	1	GL
163 rd CENELEC BT	Spain	1 st & 2 nd October	1	YW
IEC General meeting	Shanghai		4**	GL, EMcD

Note:

Attended meeting but are not members of the NSAI/ETC Committee.

* Mairéad Buckley

** Shane McHugo & Rebecca Bennis attended the IEC Young Professionals Programme.

5.2.2 International/Regional Work

Highlights for 2019 included:

- NSAI/ETC/TC 02 were granted approval by the ETC committee for the publication of I.S. 10101 subject to editing in September 2019
- NSAI/ETC/TC 03 published S.R. 61936-1:2019 "Guidelines on the application of I.S. EN 61936-1:2010 & A1:2014, Power installations exceeding 1 kV a.c. - Part 1: Common rules", attended CENELEC TC 99X/WG 01
- NSAI/ETC/TC 04 ET 201:2005 WAS withdrawn as it was superseded by I.S. EN IEC 61439
- NSAI/ETC/TC 06 concentrating its work on EN 60079-14, -17, -19 and continue to attend IEC TC 31 meetings
- NSAI/ETC/TC 10 continue to contribute to IEC TC 64 MT 40 on the work of IEC 60364-7-710 and attended CENELEC TC 62 meetings.
- NSAI/ETC/TC 11 chair, Peter Kelleher, has the role of chairman of CENELEC TC 108X and they are currently working on the 3rd edition of EN 62368.
- NSAI/ETC/TC 13 continue to participate in CENELEC TC 79
- NSAI/ETC/TC 15 membership is strong in attendance at IEC TC 106 & CENELEC TC 106X
- NSAI/ETC/TC 16 continue to participate in CENELEC
- NSAI/ETC/TC 18 are engaging with IEC TC 114, however the funding from SEAI has been withdrawn
- NSAI/ETC/TC 21 engaging with IEC TC 101
- NSAI/ETC/TC 22 high levels of engagement with IEC TC 111 & CENELEC TC 111X
- NSAI maintained a default position on voting

IEC	P Member	FDIS	Yes
		CDV	Abstain
	O Member	FDIS	No Vote
		CDV	No Vote
CENELEC		prEN	Abstain
		FprEN	Abstain
CENELEC BT			Yes

- NSAI continue to be represented at the CENELEC Technical Board (BT)
- ETC members participated in the selection of Young Professionals for the IEC Young Professionals Programme for which two Irish delegates travelled to the IEC Young Professionals Workshop held in Shanghai in October 2019.
- NSAI attended the briefing of the National Secretary in advance of the IEC Annual General Meeting

5.2.3 International/Regional Standards Reviewed

International/Regional standards reviewed are provide in respective technical committee (TC) reports.

5.2.4 International/Regional Voting Results

International/Regional voting results are provided in respective TC reports.

5.3 Regulatory Development/Update

Regulatory developments associated with each ETC TC are provided in respective TC reports

6 Irish Publications/Reviews

6.1 Publications

S.R. 61936 was published at the end of 2019

6.2 Reviews

Review work conducted by the NSAI/ETC Committee is document within the Annual report of the relevant electrotechnical sector. The sectors report on reviews carried out within each sector at the main ETC committee meetings throughout the year.

7 Work programme for 2020 onwards

For 2020, NSAI ETC will continue its work in support of the Technical Committees, approve the circulation and publication of new NSAI publications, and provide direction to the Permanent Delegate to the CLC Technical Board. Members will advise NSAI concerning new Work Areas in electrotechnical standardisation and provide oversight in relation to technical committees' use of the ETC Travel Fund.

8 Additional Information

The follow electrotechnical sector annual reports should be read in conjunction to this report.

NSAI/ETC/TC 01	Safety of household and similar electrical appliances	
NSAI/ETC/TC 02	Electrical Installations	
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NSAI/ETC/TC 12	Electronic Communications Systems	No report Dormant in 2019
NSAI/ETC/TC 13	Alarm systems	
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FIGURE 1: NSAI ETC MEETING AT NSAI SANTRY DUBLIN