



NSAI

ANNUAL REPORT 2019

NSAI TECHNICAL COMMITTEES
(NSAI/ETC/TC 02)

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1 Chairman's Statement

2019 was a year of many challenges for technical committee ETC/TC 02, as the transition from ETCI across to NSAI established stronger foundations. The ETC/TC 02 workload for 2019 centred on the task of getting I.S. 10101, "National Rules for Electrical Installations" finalised. ETC/TC 02 was heavily reliant on some very competent personnel in NSAI to steer the group through the final phases of the project. It was with great sadness that two of the key NSAI personnel departed for other positions. I wish to convey the gratitude of ETC/TC 02 members for the inspiration and enthusiasm of Sabina Seneviratne and Dr. Stewart Hickey in their work to get I.S. 10101 this far. ETC/TC 02 comprises of volunteer industry experts who rely considerably on the executive functions of NSAI, and we have not been left wanting. I am continuously impressed by the depth of knowledge and the enthusiasm which ETC/TC 02 members display in the cause of developing and maintaining national electrical standards. There is a sharing of knowledge and a camaraderie across the very broad industry spectrum that was fostered by ETCI since the seventies. Long may it continue under the NSAI umbrella, as it has given me great pleasure to work with such an experienced and enthusiastic team.

2 Introduction

NSAI ETC/TC 02 is responsible for the maintenance and revision of the national standards for electrical installations in residential, commercial and industrial premises up to and including 1kV a.c.. ETC/TC 02 also provides interpretation of the rules when requested.

The National Wiring Rules are a national standard. They are recognised in common law as the state of the art and are recognised by the Health and Safety Authority (HSA) as means of complying with the Electricity Regulations. Similarly, ET 101 is cited in the Building Regulations as the electrical installation wiring standards required in order to comply with the statutory requirements. Moreover, ET 101 has formally been recognised by the Commission for Regulation of Utilities (CRU) as the technical rules to be observed by registered electrical contractors (RECs). This will change in year 2020 with the adoption of I.S. 10101 to replace ET 101 as the National Rules for Electrical Installations.

The National Wiring Rules are prepared in consultation with the regulator, the inspectorate, contractors, designers, and a broad range of electrical industry experts. This collaboration ensures that national consensus exists, which is the most important aspect of the work of ETC/TC 02. A major feature of the work is the obligation and privilege to participate with both European and international standards bodies, namely CENELEC and IEC. ETC/TC 02 engages with CENELEC TC64 and IEC TC64. TC64 being the expert body for "Electrical installations and protection against electric shock". ETC/TC 02 works to ensure that Irish concerns are considered during in the creation and maintenance of rules at IEC and CENELEC level. ETC/TC 02 is also responsible for the adaption and adoption of the resultant harmonization documents created at this level into the National Wiring rules for Ireland.

3 Scope of TC

The scope of the National Wiring Rules extends to the requirements for the design, erection and proper functioning of electrical installations up to 1KV a.c. The Rules are intended to provide for the safety of persons, livestock and property against dangers and damage that may arise in the reasonable use of electrical installations.

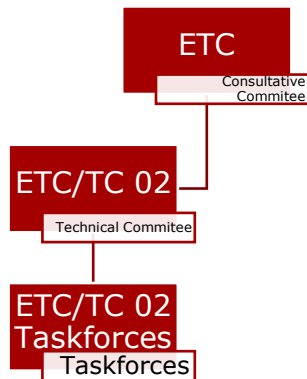
The committee mirrors the following international committees:

Committee Name	Committee Title
IEC TC64	Electrical installations and protection against electric shock
CLC TC64	Electrical installations and protection against electric shock

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:

Organisation	Name	Role
Chartered Institution of Building Services Engineers	Charles Dunn	Chairperson
National Standards Authority of Ireland	Yvonne Wylde	Secretary
National Standards Authority of Ireland	Dr. Stewart Hickey	Secretary
National Standards Authority of Ireland	Sabina Seneviratne	Support team
Electrical Contractors Safety & Standards Association Ireland Ltd	Bernard (Brian) Moran	Member
Health Service Executive	Brendan Redington	Member
The Association of Electrical Contractors	Brian Hickey	Member
Office of Public Works	Conor Clarke	Member
Dundalk Institute of Technology	Emer McGrath	Member

City of Dublin Education & Training Board	Gary Cullen	Member
Association of Consulting Engineers of Ireland	Gary Rafter	Member
Liaison NSAI/ETC/TC 03	Gerard Buckley	National observer
Institution of Engineering & Technology	Gerry Eastwood	Member
Register of Electrical Contractors of Ireland	John Clare	Member
Engineers Ireland	John Kenny	Member
Electricity Supply Board	John McManus	Member
National Standards Authority of Ireland	Justin Tallon	Support team
Electricity Supply Board	Kevin O'Connor	Member
Electrical manufactures and Distributors Association	Mark Keogh	Member
Electrical contractors Association in Ireland	Michael Moran	Member
Health & Safety Authority	Padraig Delaney	Member
Dublin City Council	Paul Dunne	Member
National Electrical Contractors Ireland	Paul Lynch	Member
Distribution Network Operator	Ray Eustace	Member
Commission for Regulation of Utilities	Sean Ward	Member
Electrical contractors Association in Ireland	Shane Blaney	Member
Liaison NSAI/ETC/TC 06	Stephen Moore	Member
Future Education and Training	Stephen Murphy	Member
Technical University Dublin	Thomas Woolmington	Member
Register of Electrical Contractors of Ireland	Tim O'Connor	Member

The table below provides the names of the Taskforce Members for the year:

Organisation	Name	Role
(RECI/Safe Electric)	John Clare	Convenor
(HSE)	Brendan Redington	Expert
(KingMoffatt)	Brendan Sweeney	Expert
(AECI)	Brian Hickey	Expert
(ECSSA)	Brian Moran	Expert
(CIBSE)	Charles Dunn	Expert
(OPW)	Conor Clarke	Expert
(ACEI)	Gary Rafter	Expert
(IET)	Gerry Eastwood	Expert
(ESBI)	Jan Bednarik	Expert
(EMDA)	Mark Keogh	Expert
(Geoghegan Electrical)	Mark McEneff	Expert
(ECA)	Michael Moran	Expert
(HSA)	Padraig Delaney	Expert
(DCC)	Paul Dunne	Expert
(Joe Vaughan Electrical)	Phil Comiskey	Expert
(DSO)	Ray Eustace	Expert
(Joe Vaughan Electrical)	Ray Power	Expert
(RECI)	Tim O'Connor	Expert

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	24/01//2019	N1642
2	28/03/2019	N1660
3	23/05/2019	N1674
4	22/08/2019	N1680
5	26/09/2019	N1694
6	24/10/2019	N1704
7	28/11/2019	N1706

ETC/TC 02 meetings are typically hosted in the mornings. Where particular issues would benefit from longer consideration, then these were often carried over to subgroup meetings held later in the day. A feature of 2019 year was the “pre-meeting” sessions dedicated particularly to the plan for the launch of I.S. 10101, to discuss training, public relations, and presentations planned for the new standard.

5.1.2 National Work

The key focus for ETC/TC 02 in 2019 was finalising the New National Rules for Electrical Installations I.S. 10101 for launch. A dedicated taskforce workgroup met regularly throughout the year to review the text of the document clause by clause. As well as ETC/TC 02 members, additional specialists attended the task force sessions dealing with specialised areas of the rules. December 2018 saw the launch of the Draft for Public Consultation, and much time was spent sifting through over 700 responses received from the consultation.

The launch of the UK BS 7671, Requirements for Electrical Installations, IET Wiring Regulations, mid 2019 provided a great pathway for I.S. 10101 to follow, and we are indebted to IET UK for their friendly advice on how to handle a launch.

NSAI spent time on researching, to develop an online format for I.S. 10101, and this work will bear fruit in future years when the publication goes online.

ETC/TC 02 members presented “What's new in I.S. 10101” sessions at the National Construction Summit. Presentation were given to professional organisations IET and IHEEM early in the year.

ETC/TC 02 meetings include agenda items for liaising with other NSAI committees, including receiving presentations and providing technical replies to queries.

ETC/TC 02 was represented at the Department of the Environment session on proposed revisions to the Building Regulations, to discuss proposals for mandatory EV charging points in new developments.

Meanwhile the regular works of considering public queries in relation to the existing ET 101 continued, as well as reviewing forthcoming proposals from CENELEC and IEC for which Ireland has a vote.

ETC/TC 02 membership has remained strong throughout 2019, with attendances at an all-time high, and enquiries from non-members seeking to get involved.

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
CLC TC 64	Fehraltorf (Switzerland)	2019-04-09 to 2019-04-11	1
IEC TC 64 MT 40	Germany	19-20 Mar 2019	3
		22-23 May 2019	
		28-29 Aug 2019	

NSAI ETC/TC 02 was represented at CLC TC64 Fehrattorf by ETC/TC 02 chair, where the dedication and professionalism of the country representatives was evident. Ireland is fortunate to have a seat at CENELEC and will need to work to hold its high standing in international circles. The meeting demonstrated how the speed and volume of electrical standardisation has grown, and how countries have evolved their organisations to respond to the rapidly changing electrical environment.

5.2.2 International/Regional Work

Members of the committee attend maintenance teams meeting in Germany for IEC TC 64 MT 40, ensuring Irish views were considered by the maintenance teams.

5.2.3 International/Regional Standards Reviewed

All draft standards in the 60364-series issued by IEC TC64 and CLC TC64 to national mirror committees are received and considered by ETC/TC 02. Consideration includes how the proposed new standards affect the current ET 101, and also how they will affect the proposed new standard I.S. 10101.

5.2.4 International/Regional Voting Results

ETC/TC 02 monthly meetings propose a vote where required for IEC or CENELEC documents, which NSAI submits to the relevant bodies.

5.3 Regulatory Development/Update

The work of ETC/TC 02 is influenced by several European Directives including the Alternative Fuels Infrastructure Directive, the Construction Products Directive, the Low Voltage Directive,

the Electromagnetic Compatibility Directive to name but a few. The National Rules for Electrical Installations must also align with Irelands Building Regulations, which requires liaison with the Department of the Environment. Continued pressure to reduce carbon footprint has implications on the wiring rules where new standards are being developed for alternative energies, and ETC/TC 02 members advanced liaison with ESB and SEAI to align regulations.

6 Irish Publications/Reviews

6.1 Publications

The launch of I.S. 10101 is scheduled to be of interest to a wide audience, and ETC/TC 02 worked to distribute information through its members organisations as the launch process evolved. In particular, RECI and CIF and electric.ie were of great assistance in promoting the new standard and keeping the public informed of progress.

6.2 Reviews

The launch of I.S. 10101 is as a result of the review work carried out by ETC/TC 02.

7 Work programme for 2020 onwards

With I.S. 10101 scheduled for launch early 2020, the program of work for ETC/TC 02 will include:

- Presentations and information dissemination about I.S. 10101
- Receiving and responding to queries on I.S. 10101
- Stimulating the market to introduce training and upskilling for I.S. 10101
- Preparing a plan for the 1st corrigendum for I.S. 10101
- Liaison with other groups to promote standards for the growing Electric Vehicle market

The work will include a review of the ETC/TC 02 Strategic Business Plan, to expand on the goals previously established.

8 Additional Information



FIGURE 1: NSAI ETC/TC 02 MEETING AT NSAI SANTRY DUBLIN