



NSAI

ANNUAL REPORT 2018

NSAI TECHNICAL COMMITTEES
(TCS)

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1 Chairman's Statement

This year was a challenging and busy year for ETC TC2. The key focus was the preparation of Ireland's new National Rules for Electrical Installations, "I.S.10101", with dedicated Taskforces established to conduct this work. TC2 was fortunate to have input from long standing members of the Electro Technical Council of Ireland (ETCI) who shared their experience from the development of previous publications of the national wiring regulations.

Committee member organisations provided extensive input in 2018 with nearly full attendance at most TC2 committee meetings. Moreover, TC2 continued its interaction with IEC and CENELEC, reviewing an increasing number of draft standards and proposals from associated IEC and CENELEC committees. ETC TC2 experts also continued their review of technical submissions from the public, formulating replies for issue by NSAI. In addition, the committee dealt with legacy issues including ETCI standards and guides which have not been updated for some time.

I have been fortunate to be surrounded by a very knowledgeable and enthusiastic team on TC2 who contribute lively debate and informed technical opinions of electrical matters. Our work would not be possible without the talented efforts of the executive team at NSAI. I look forward to working with the team in 2019, the highlight of which will be the launch of the new wiring rules standard.

2 Introduction

NSAI ETC TC2 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. TC2 also provides interpretation of the rules when requested.

The National Wiring Rules are a national standard 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, ET101 is cited in the Building Regulations as the electrical installation wiring standards required in order to comply with the statutory requirements. Moreover, ET101 has formally been recognised by the Commission for Regulation of Utilities (CRU) as the technical rules to be observed by registered electrical contractors (RECs).

The National Rules are prepared in consultation with the Register of Electrical Contractors of Ireland (RECI), the HSA and with industry experts to ensure that national consensus exists, which is the most important aspect of the work of TC2. A major feature of the work is the obligation to participate in CENELEC and IEC, and to ensure that 1) Irish concerns are considered and 2) that CENELEC harmonization decisions are implemented in the rules.



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

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 upto 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:

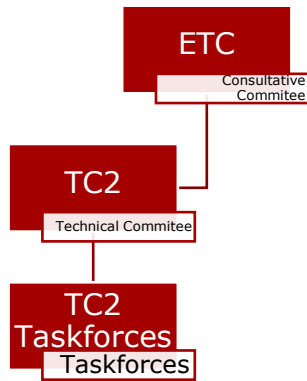
Committee Name	Committee Title
IEC TC64	Electrical installations and protection against electric shock

CLC TC64	Electrical installations and protection against electric shock
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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 (CIBSE)	Charles Dunn	National Chairperson
National Standards Authority of Ireland (NSAI)	Stewart Hickey	Secretary
NSAI	Sabina Seneviratne	Member
Registered Electrical Contractors of Ireland/Safe Electric	John Clare	Member
ESB Networks	Ray Eustace	Member
Dublin City Council	Paul Dunne	Member
Health and Safety Authority (HSA)	Padraig Delaney	Member
Dundalk Institute of Technology (DKIT)	Emer McGrath	Member
Office of Public Works (OPW)	Conor Clarke	Member
Association of Electrical Contractors of Ireland (AECI)	Brian Hickey	Member
Electrical Manufacturers and Distributors Association (EMDA)	Mark Keogh	Member
Electrical Contractors Safety and Standards Association (ECSSA)	Brian Moran	Member
National Electrical Contractors of Ireland (NECI)	Paul Lynch	Member

Electrical Contractors Association (ECA)	Michael Moran	Member
The Institute of Engineering and Technology (IET)	Gerry Eastwood	Member
Association of Consulting Engineers of Ireland (ACEI)	Gary Rafter	Member
SOLAS	Vivion Spain	Member

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

Organisation	Name	Role
RECI/Safe Electric	John Clare	Convenor
ESBN	Ray Eustace	Expert
DCC	Paul Dunne	Expert
HSA	Padraig Delaney	Expert
CIBSE	Charles Dunn	Expert
Joe Vaughan Electrical	Ray Power	Expert
Joe Vaughan Electrical	Phil Cumiskey,	Expert
ECSSA	Brian. Moran	Expert
ESBN	Jan Bednarik	Expert
Geoghegan Electrical	Mark. McEneff	Expert
Health Service Executive (HSE)	Brendan Redington	Expert
KingMoffatt	Brendan Sweeney	Expert
Sustainable Energy Authority of Ireland (SEAI)	Fergus Sharkey	Expert
ACEI	Gary Rafter	Expert

5 Summary of 2018 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	25 Jan 2018	N1509
2	22 Feb 2018	N1521
3	29 Mar 2018	N1527
4	26 Apr 2018	N1537
5	31 May 2018	N1549
6	28 June 2018	N1561
7	26 July 2018	N1565
8	30 Aug 2018	N1579

9	27 Sept 2018	N1589
10	8 Nov 2018	N1601
11.	13 Dec 2018	N1617

5.1.2 National Work

National work was the primary focus of ETC TC2 in 2018 which included the following key items; Amendment 3 to ET101 concerning Supplies for Electric Vehicles was published in May 2018. The Amendment addresses requirements for the type and current rating of socket outlets, RCD protection, measures for protection against electric shock, IP rating of equipment, impact protection against mechanical damage, isolation and switching.

Great progress made concerning the development of I.S. 10101;20xx which will be the first wiring rules Standard published under NSAI. The TC2 Taskforce tasked with development of the new standard met on approximately 36 occasions during 2018. New experts were recruited who made further valuable contributions to this work. In this regard it is necessary to acknowledge the input of Safe Electric, Dublin County Council, ESB Networks, ESB International, John Vaughan Engineering, KingMoffatt, Geoghegan Electrical, SEAI and all the stakeholders who have contributed towards the 1800+ volunteered hours to date on the new standard. A draft of I.S. 10101;20xx was approved for public consultation in November 2019.

In terms of PR activities, presentations made at 8 Safe Electric Events in 2018. There was a press release published in electric.ie magazine and a memo describing what’s new in I.S. 10101;20xx circulated to industry stakeholders.

Throughout 2018, TC2 continued to review the participation of its members, which resulted in greatly improved attendance at TC2 meetings as well as increased input from membership across a wide range of committee issues. TC2 also reviewed its liaison with other technical committees and has now established much improved links.

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	Prague, Czech Republic	16-19 April 2018	2
IEC TC 64	Sydney, Australia	9-11 October 2018	1

5.2.2 International/Regional Work

The National Wiring Rules Committee has continued its engagement with international standards development work where Irish interests were represented at CENELEC TC64 held in Prague in April 2018. A delegate also travelled to the IEC TC64 plenary meeting which took place in Sydney, Australia from the 9th to the 11th of October.

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.

5.2.4 International/Regional Voting Results

16 IEC documents (100% Voting Record)

5.3 Regulatory Development/Update

The work of ETC TC2 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.

6 Irish Publications/Reviews

6.1 Publications

The Committee and underlying Taskforces published Amendment 3 to ET101 concerning Supplies for Electric Vehicles this year. A draft of I.S. 10101 was also published for public consultation.

6.2 Reviews

An extensive review of all current Harmonisation Documents in the HD 60364 series was also successfully complete in preparation of I.S.10101:20xx draft for public consultation.

7 Work programme for 2019 onwards

ETC TC2’s work programme for 2019 will be focused on publication and promotion of I.S.10101;20xx and increased engagement with the work of the relevant international committees (IEC TC64 and CENELEC TC64). In 2019, the committee will dedicate resources to developing the committee strategic business plan.

8 Additional Information

The photograph below was taken at NSAI on the 13th December 2018.

