

ANNUAL REPORT 2022

NSAI TECHNICAL COMMITTEES (NSAI/ETC "ELECTROTECHNICAL COMMITTEE")



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1 Chairman's Statement

NSAL

2022 saw the emergence of the standards world from the Covid pandemic. Much of the standardisation activity is now conducted either online or via hybrid meetings. This provides Ireland with a greater opportunity to participate in standardisation at the highest level without the expense of travelling to far flung locations which present financial and time penalties.

Standardisation has to both follow and at times lead the rapid development of the high technology sector. The United Nations' has identified Sustainable Development Goals; from improving access to clean and affordable energy to supporting sustainable consumption and production. Standards and conformity assessment systems support the achievement of these goals by creating a safer and more sustainable world. The IEC and CENELEC Standards and Conformity Assessment Systems are helping to achieve these goals.

Electrotechnical standardisation plays a central role providing policy advice, shaping regulation and conformity assessment and leading the way for new technology use.

NSAI Electrotechnical Committee (ETC) continued to meet remotely for much of the year. The ETC committees were very active and continue to grow with experts from many Irish companies giving their time and technical expertise to the ETC technical committees to make new technologies possible.

The many standards areas that ETC are involved in are essential to support EU Directives. The European Commission and CENELEC continue to improve the adoption of standards and the process of approval which is very important for areas under the ETC remit such as Medical Devices, EMC, the Low Voltage Directive and ATEX.

The theme for the IEC general meeting in 2022 was 'Carrying the IEC forward into the future' to address the many uncertainties that lay ahead, whether environmental, societal, or economic. IEC President Dr Yinbiao Shu acknowledged, 'Our work is relevant all across the world, making sure that systems are safe and efficient. We connect people and economies.' On the value of standards as tools that help find solutions, he said, 'We must offer our contribution to make our world a better place for everyone.'

The IEC adopted a new Strategic Plan to reflect their core values, vision and mission for the IEC for a safer, more efficient world. It brings together three strategic themes:

- enabling a digital and all-electric society
- fostering a sustainable world
- leading on trust, inclusion and collaboration

The IEC general meeting activities help us to understand the realities of global issues and identify areas for focus that relate to our own national needs.

According to the International Energy Agency (IEA), to reach net zero emissions by 2050, annual clean energy investment worldwide will need to more than triple by 2030. Ireland is a leading country in renewable energy.

The energy crisis during 2022 has highlighted the importance of our indigenous renewable energy supply. This is important to reduce our dependence on imported energy and enables us as a nation to control energy costs. To achieve a net zero target by 2050, a diversity of technologies will be required.

Electrification is the most viable route to reducing our carbon footprint and this is reflected in the activities of the ETC. Our committees are active in the onshore and offshore wind sectors and photovoltaic technologies.

Emerging technologies are required to complement the renewable sources maximising the electricity grid via demand side management and storage systems. Hydrogen use will also be important enabling technology to maximise the use of our electricity resources. The work of ETC committees will enable the continued transition to renewable energy and a clean future.

The National wiring rules I.S. 10101 have seen extensive uptake. There were nearly 15,000 copies of the wiring rules sold since it was published in 2020. NSAI/ETC/TC 2 put in an 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. 2023 will be a busy year for this committee as they plan to produce an amendment to I.S. 10101.

The NSAI ETC Committees continue to play a key role in the development of National and International standards, and I look forward to working with you throughout 2023.

John McAuley

Chair of NSAI/ETC Committee

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 553 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 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		
NSAI/ETC/RCDTF	Residual Current Devices Task Force		

4 Structure and Membership

4.1 Structure

The Figure below illustrates the structure of the Committee:



4.2 Members

The table below provides the members represented on the committee for the year:

National CHAIR	CEI	Compliance Engineering Ireland Ltd.
National PRESIDENT	NSAI	National Standards Authority of Ireland
National SECRETARY	NSAI	National Standards Authority of Ireland
ASSISTANT SECRETARY	NSAI	National Standards Authority of Ireland
	ACEI	Association of Consulting Engineers of Ireland
	AECI	Association of Electrical Contractors Ireland
	AEW	Association of Electrical Wholesalers
	CCPC	Competition and Consumer Protection Commission
	CIBSE	Chartered Institution of Building Services Engineers
	Comreg	Commission for Communications Regulation
	CRU	Commission for Regulation of Utilities
	DCC	Dublin City Council
	DUT	Technological University Dublin
National committee member	ECA	Electrical contractors Association in Ireland
National committee member	EIFI	Electrical Industries Federation of Ireland
		Eir
		Eirgrid
	EMDA	Electrical manufactures and Distributors Association
	ESB	Electricity Supply Board
	HSA	Health & Safety Authority
	IET	Institution of Engineering & Technology
		Independent Consultant
	NSAI	National Standards Authority of Ireland
	OPW	Office of Public Works

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	RECI	Register of Electrical Contractors of Ireland	
	SOLAS	Future Education and Training	
	502/15	Chair NSAI/ETC/RCDTF	
		Chair NSAI/ETC/TC 01	
		Chair NSAI/ETC/TC 02	
		Chair NSAI/ETC/TC 03	
		Chair NSAI/ETC/TC 04	
		Chair NSAI/ETC/TC 06	
		Chair NSAI/ETC/TC 10	
		Chair NSAI/ETC/TC 11	
National committee Observer		Chair NSAI/ETC/TC 12	
		Chair NSAI/ETC/TC 13	
		Chair NSAI/ETC/TC 14	
		Chair NSAI/ETC/TC 15	
		Chair NSAI/ETC/TC 18	
		Chair NSAI/ETC/TC 20	
		Chair NSAI/ETC/TC 21	
		Chair NSAI/ETC/TC 22	

5 Summary of 2022 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	3 rd February 2022	<u>N0140</u>
2	5 th of May 2022	<u>N0151</u>
3	6 th of October 2022	<u>N0172</u>

NSAI/ETC/WG 01 "HV & LV earthing Systems" attended the following meetings:

Meeting No.	Date	Minutes Reference
1	8 th November 2022	<u>N0010</u>
2	22 nd November 2022	<u>N0015</u>
3	20 th December 2022	<u>N0027</u>

5.1.2 National Work

Highlights and decisions for 2022 included:

- Three national meetings via MS Teams for NSAI, meaning a total of eighteen meetings have now taken place since the formation of the ETC on the 20th March 2017.
- The Committee agreed to set up a new WG
 - NSAI/ETC/WG 01 "Adjacent HV & LV earthing systems
- The committee approved the Business plan for NSAI/ETC/TC 02.
- The committee agreed to the extension of the scope of NSAI/ETC/TC 03.
- ETCI publications were review by the NSAI/TCs and the decisions made are listed in section 6.2 of this report.

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
170 th CENELEC BT	Virtual	8 th February	1
171 st CENELEC BT	Stockholm Sweden	5 th & 6 th May	1
172 nd CENELEC BT	Cyprus	19 th & 20 th October	1
86 th IEC General	San Francisco	31 st October – 4 th	7
meeting	Sali Fidilcisco	November	/

5.2.2 International/Regional Work

Highlights for 2022 included:

- NSAI/ETC set up a WG to look at adjacent HV & LV earthing Systems NSAI/ETC/WG 01.
- NSAI/ETC/TC 01 continue to contribute to the work of IEC TC 61 & CLC TC 61, and also IEC TC 59 & CLC TC 59. Members attended IEC meetings and contributed to the development of international standards in the area of electrical air cleaners.
- NSAI/ETC/TC 02 continue to review the revised HD in the 60365 series. The Working Group NSAI/ETC/TC 02/WG 03 EV Charging Point proposed an amendment to Part 722 of I.S. 10101.
- NSAI/ETC/TC 03 participated at both IEC & CLC meetings. A Member of the committee continues in the role of convenor of IEC/PC/128/WG 1 with other members joining this WG.
- NSAI/ETC/TC 04 members aim to get more involved at both IEC & CLC meeting.
- NSAI/ETC/TC 06 concentrating its work on EN 60079-14, -17, -19 and continue to attend IEC/TC 31 meetings and attended a week of meeting in the San Francisco. The WG within this committee continue to try to produce guidance which is hosted on the HSA website. The Subcommittee NSAI/ETC/TC 06/SC 01 are very active in CEN/TC 305 and participate on some WGs within this TC.
- NSAI/ETC/TC 10 continue to contribute to the work of IEC TC 62 and CLC TC 62 and attended CENELEC TC 62 meetings.
- NSAI/ETC/TC 11 supported the CDV of the 4th edition of IEC 62368-1. Committee chair, Peter Kelleher, has the role of chairperson of CENELEC TC 108X and they are currently working on the 4th edition of EN 62368.
- NSAI/ETC/TC 12 continues to participante in IEC TC 46, IEC TC 86, & IEC TC 100.
- NSAI/ETC/TC 13 continues to participate in CENELEC TC 79 and is also following the work of IEC TC 79.
- NSAI/ETC/TC 15 welcomed new chair, Paul Reilly. Members continue to attend meetings of IEC TC 106 & CENELEC TC 106X.
- NSAI/ETC/TC 14 N/A
- NSAI/ETC/TC 16 are active and continue to participate in CELELEC.
- NSAI/ETC/TC 18 are engaging with IEC/TC 114.
- NSAI/ETC/TC 20 appointed Kevin O'Connor as the new Chair at the end of 2022. The scope of this committee will be reviewed early in 2023 to reflect the interests of the committee members.
- NSAI/ETC/TC 21 that reformed in 2021 have held 4 meetings in 2022 and are actively engaging with IEC and CLC work.
- NSAI/ETC/TC 22 high levels of engagement with IEC/TC 111 & CLC/TC 111X.



- NSAI/ETC/RCDTF are actively involved in IEC/TC 23E & CLC/TC 23E but have had a number of membership changes in 2022 and are currently seeking a new chair.
- NSAI continue to be represented at the CENELEC Technical Board (BT).
- The IEC Young Professionals Programme took place this year in San Francisco during the General meeting and NSAI sent two representatives from Ireland.
- NSAI are members of the IEC Forum Organising committee.
- NSAI attended the IEC Forum during the General meeting in San Francisco.
- NSAI had 3 technical experts who travelled to San Francisco for technical meetings during the General meeting.

5.2.3 IEC P & O Membership Status

In 2022 NSAI Membership status was changed from an Observer member to a Participating Member on the following 6 technical committees.

Committee	Description
IEC/TC 1	Terminology
IEC/TC 8	System aspects of electrical energy supply
IEC/TC 44	Safety of machinery - Electrotechnical aspects
IEC/TC 47	Semiconductor devices
IEC/TC 48	Electrical connectors and mechanical structures for electrical and electronic equipment
IEC/TC 57	Power systems management and associated information exchange

In 2022 NSAI joined the following 6 technical committees

Committee	Description
IEC/TC 115	High Voltage Direct Current (HVDC) transmission for DC voltages above 100 Kv (P member)
SyC SET	Sustainable Electrified Transportation (O member)
TC 8/SC 8A	Grid Integration of Renewable Energy Generation (P member)
TC 8/SC 8B	Decentralized electrical energy systems (P member)
TC 8/SC 8C	Network Management in Interconnected Electric Power Systems (P member)
TC 59/SC 59N	Electrical air cleaners for household and similar purposes (P member)

In 2022 NSAI Membership status was changed from a Participation member to an Observer Member on the following 2 technical committees.

Committee	Description
IEC/TC 46/SC 46C	Wires and symmetric cables
IEC/TC 86/SC 86C	Fibre optic systems and active devices

NSAI are currently a P "Participating" member to 59 IEC Technical committees and an O "Observer" member in 71 IEC Technical Committees. Total 130

Committee	Description	Status
TC 1	Terminology	P-Member
TC 2	Rotating machinery	O-Member
TC 4	Hydraulic turbines	O-Member
TC 5	Steam turbines	O-Member
TC 7	Overhead electrical conductors	O-Member
TC 8	System aspects of electrical energy supply	P-Member
TC 8/SC 8A	Grid Integration of Renewable Energy Generation	P-Member



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TC 8/SC 8B	Decentralized electrical energy systems	P-Member
TC 8/SC 8C	Network Management in Interconnected Electric Power Systems	P-Member
TC 10	Fluids for electrotechnical applications	O-Member
TC 11	Overhead lines	O-Member
TC 13	Electrical energy measurement and control	O-Member
TC 14	Power transformers	P-Member
TC 15	Solid electrical insulating materials	O-Member
TC 17	High-voltage switchgear and controlgear	O-Member
TC 17/SC 17A	Switching devices	O-Member
TC 17/SC 17C	Assemblies	O-Member
TC 20	Electric cables	O-Member
TC 21	Secondary cells and batteries	O-Member
TC 22	Power electronic systems and equipment	O-Member
TC 22/SC 22G	Adjustable speed electric power drive systems (PDS)	P-Member
TC 23	Electrical accessories	O-Member
TC 23/SC 23B	Plugs, socket-outlets and switches	O-Member
TC 23/SC 23E	Circuit-breakers and similar equipment for household use	P-Member
TC 23/SC 23G	Appliance couplers	O-Member
TC 23/SC 23H	Plugs, Socket-outlets and Couplers for industrial and similar applications, and for Electric Vehicles	O-Member
TC 23/SC 23J	Switches for appliances	O-Member
тс 27	Industrial electroheating and electromagnetic processing	O-Member
TC 31	Equipment for explosive atmospheres	P-Member
TC 31/SC 31G	Intrinsically-safe apparatus	P-Member
TC 31/SC 31J	Classification of hazardous areas and installation requirements	P-Member
TC 31/SC 31M	Non-electrical equipment and protective systems for explosive atmospheres	P-Member
TC 33	Power capacitors and their applications	O-Member
TC 36	Insulators	P-Member
TC 36/SC 36A	Insulated bushings	O-Member
TC 37	Surge arresters	P-Member
TC 37/SC 37A	Low-voltage surge protective devices	O-Member
TC 37/SC 37B	Components for low-voltage surge protection	O-Member
TC 38	Instrument Transformers	O-Member
TC 40	Capacitors and resistors for electronic equipment	O-Member
TC 42	High-voltage and high-current test techniques	O-Member
TC 44	Safety of machinery - Electrotechnical aspects	P-Member
TC 45/SC 45B	Radiation protection instrumentation	O-Member
TC 46	Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories	O-Member
TC 46/SC 46A	Coaxial cables	O-Member
TC 46/SC 46C	Wires and symmetric cables	O-Member
TC 46/SC 46F	RF and microwave passive components	O-Member



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TC 47	Semiconductor devices	P-Member
TC 47/SC 47A	Integrated circuits	P-Member
TC 47/SC 47E	Discrete semiconductor devices	P-Member
TC 48	Electrical connectors and mechanical structures for electrical and electronic equipment	P-Member
TC 48/SC 48B	Electrical connectors	O-Member
TC 51	Magnetic components, ferrite and magnetic powder materials	O-Member
TC 56	Dependability	P-Member
TC 57	Power systems management and associated information exchange	P-Member
TC 59	Performance of household and similar electrical appliances	P-Member
TC 59/SC 59A	Electric dishwashers	P-Member
TC 59/SC 59C	Electrical heating appliances for household and similar purposes	P-Member
TC 59/SC 59D	Performance of household and similar electrical laundry appliances	O-Member
TC 59/SC 59F	Surface cleaning appliances	O-Member
TC 59/SC 59K	Performance of household and similar electrical	P-Member
TC 59/SC 59L	cooking appliances Small household appliances	O-Member
TC 59/SC 59M	Performance of electrical household and similar	O-Member
-	cooling and freezing appliances	
TC 59/SC 59N	Electrical air cleaners for household and similar purposes	P-Member
TC 61	Safety of household and similar electrical appliances	P-Member
TC 61/SC 61B	Safety of microwave appliances for household and commercial use	O-Member
TC 61/SC 61C	Safety of refrigeration appliances for household and commercial use	O-Member
TC 61/SC 61D	Appliances for air-conditioning for household and similar purposes	O-Member
TC 61/SC 61H	Safety of electrically-operated farm appliances	O-Member
TC 61/SC 61J	Electrical motor-operated cleaning appliances for commercial use	O-Member
TC 62	Medical equipment, software, and systems	P-Member
TC 62/SC 62A	Common aspects of medical equipment, software, and systems	P-Member
TC 62/SC 62B	Medical imaging equipment, software, and systems	O-Member
TC 62/SC 62C	Equipment for radiotherapy, nuclear medicine and radiation dosimetry	O-Member
TC 62/SC 62D	Particular medical equipment, software, and systems	P-Member
TC 64	Electrical installations and protection against electric shock	P-Member
TC 65	Industrial-process measurement, control and automation	P-Member
TC 65/SC 65A	System aspects	P-Member
TC 65/SC 65B	Measurement and control devices	O-Member

TC 65/SC 65C	Industrial networks	O-Member
TC 66	Safety of measuring, control and laboratory	P-Member
	equipment	
TC 68	Magnetic alloys and steels	O-Member
TC 69	Electrical power/energy transfer systems for electrically propelled road vehicles and industrial trucks	P-Member
TC 70	Degrees of protection provided by enclosures	O-Member
TC 76	Optical radiation safety and laser equipment	O-Member
TC 77	Electromagnetic compatibility	P-Member
TC 77/SC 77A	EMC - Low frequency phenomena	P-Member
TC 77/SC 77B	High frequency phenomena	P-Member
TC 77/SC 77C	High power transient phenomena	O-Member
TC 78	Live working	O-Member
TC 79	Alarm and electronic security systems	P-Member
TC 80	Maritime navigation and radiocommunication equipment and systems	O-Member
TC 81	Lightning protection	O-Member
TC 82	Solar photovoltaic energy systems	P-Member
TC 86	Fibre optics	O-Member
TC 86/SC 86A	Fibres and cables	O-Member
TC 86/SC 86B	Fibre optic interconnecting devices and passive components	O-Member
TC 86/SC 86C	Fibre optic systems and active devices	O-Member
TC 88	Wind energy generation systems	P-Member
TC 94	Electrical relays	O-Member
TC 95	Measuring relays and protection equipment	O-Member
TC 99	Insulation co-ordination and system engineering of high voltage electrical power installations above 1,0 kV AC and 1,5 kV DC	P-Member
TC 100	Audio, video and multimedia systems and equipment	P-Member
TC 101	Electrostatics	P-Member
TC 106	Methods for the assessment of electric, magnetic and electromagnetic fields associated with human exposure	P-Member
TC 108	Safety of electronic equipment within the field of audio/video, information technology and communication technology	P-Member
TC 110	Electronic displays	O-Member
TC 111	Environmental standardization for electrical and electronic products and systems	P-Member
TC 114	Marine energy - Wave, tidal and other water current converters	P-Member
TC 115	High Voltage Direct Current (HVDC) transmission for DC voltages above 100 kV	P-Member
TC 116	Safety of motor-operated electric tools	O-Member
TC 120	Electrical Energy Storage (EES) Systems	P-Member
TC 121	Switchgear and controlgear and their assemblies for low voltage	P-Member
TC 121/SC 121A	Low-voltage switchgear and controlgear	P-Member



TC 121/SC 121B	Low-voltage switchgear and controlgear assemblies	P-Member
TC 122	UHV AC transmission systems	O-Member
TC 124	Wearable electronic devices and technologies	O-Member
PC 127	Low-voltage auxiliary power systems for electric power plants and substations	P-Member
PC 128	Operation of electrical installations	P-Member
CISPR	International special committee on radio interference	P-Member
CISPR/CIS/A	Radio-interference measurements and statistical methods	O-Member
CISPR/CIS/B	Interference relating to industrial, scientific and medical radio-frequency apparatus, to other (heavy) industrial equipment, to overhead power lines, to high voltage equipment and to electric traction	O-Member
CISPR/CIS/D	Electromagnetic disturbances related to electric/electronic equipment on vehicles and internal combustion engine powered devices	O-Member
CISPR/CIS/F	Interference relating to household appliances tools, lighting equipment and similar apparatus	O-Member
CISPR/CIS/H	Limits for the protection of radio services	O-Member
CISPR/CIS/I	Electromagnetic compatibility of information technology equipment, multimedia equipment and receivers	P-Member
SyC SET	Sustainable Electrified Transportation	O-Member
SyC Smart Energy	Smart Energy	O-Member
ISO/IEC JTC 1/SC 25	Interconnection of information technology equipment	P-Member
ISO/IEC JTC 1/SC 41	Internet of Things and Digital Twin	P-Member

5.2.4 International/Regional Standards Reviewed

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

5.2.5 International/Regional Voting Results

Each of the Technical committees listed in the Electrotechnical Sector have actively voted as listed in their annual reports on relevant IEC and CENELEC documents open for vote. In addition to these votes NSAI have voted on 37 CEN/BT votes as listed below.

Body	Vote Reference	Comments Submitted	Decision
CEN/BT	CEN/TC 136 - 2nd Tolerance Request for EN 17229-2 (WI 00136450)	No	Approve
CEN/BT	CEN/TC 88 - Revision of EN 16977 - Request for derogation from the five-members rule- 12800	Yes	Abstain
CEN/BT	CEN/TC 215 - Withdrawal of EN ISO 15002:2008/A1:2019-12798	No	Approve
CEN/BT	CEN-CLC position paper on the EC Action Plan on the civil, defence and space sectors- 12794	No	Approve

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CEN/BT	2021/c260-CEN/TC 454 - Approval of technical change after FV and prior to publication- 12821	No	Approve
CEN/BT	2021/c256-SFG-I - Report to BT and revised Terms of Reference (ToR)- 12808	No	Approve
CEN/BT	2022/c008-ASD-STAN - Withdrawal of ENs- 12839	No	Approve
CEN/BT	2022/c011-CEN/TC 450 - Request to declare dormant- 12850	No	Approve
CEN/BT	2021/c259-File attachments to deliverables- 12817	Yes	Disapprove
CEN/BT	2022/c010: CEN/TC 343 - Change of title and scope- 12846	No	Approve
CEN/BT	2022/c009: CEN/TC 19 - Request for A-deviation for EN 16734- 12843	No	Approve
CEN/BT	2021/c264: CEN-CENELEC Internal Regulations - Part 3 - new edition-12829	No	Approve
CEN/BT	2022/c015: CEN/TC 216 - Request to remove link to MDR from FprEN 14885-12854	No	Approve
CEN/BT	2021/c257: Access to normative references for Annex III Organizations-12809	No	Approve
CEN/BT	2022/c017: CEN/TC 428 - Approval of revised BP	No	Approve
CEN/BT	2022/c020: CEN-CLC/JTC 3 - Request to stop the publication of EN ISO 15223-1:2016/FprA11	No	Approve
CEN/BT	2022/c031: Final draft SReq on 'Alternative fuels infrastructure' (AFI II) - BTs Vote	No	Approve
CEN/BT	2022/c032: Final draft SReq - Refrigerating appliances with a direct sales function - ecodesign - BT vote	No	Approve
CEN/BT	2022/c036: CEN-CLC/SF Machinery - Report of meeting and approval of guidance for Annex Z in hENs	No	Approve
CEN/BT	2022/c042: New CEN-CLC-ETSI Joint Technical Body on RED Cybersecurity - creation	No	Approve
CEN BT	2022/c006: New CEN/TC on Quality in Medical Imaging along the patient pathway	No	Approve
CEN BT	2022/c056: CEN-CLC/JTC 10 - Coordination with CEN-CLC product TCs	No	Approve
CEN BT	2022/c053: CEN-CLC/JTC 13 - NWI request	No	Approve
CEN BT	2022/c054: CEN-CLC/JTC 13 - NWI request	No	Approve
CEN BT	2022/c055: CEN-CLC/JTC 13 - NWI request	No	Approve
CEN BT	2022/c061: CEN/TC 102 - Approval of Annex ZA after Formal Vote EN ISO 11607 Series	No	Approve
CEN BT	2022/c065: CEN/TC 409 - Request to declare dormant	No	Approve
CEN BT	2022/c063: Final draft Standardization Request on Pyrotechnic articles in support of Directive 2013/29/EU - CEN/BT vote	No	Approve
CEN BT	2022/c062: CEN-CLC/FG OoC - Appointment of Chair & ToR	No	Approve
CEN/BT	2022/c068: CEN-CLC/BTWG 14 - Request for A- deviations/SNCs after formal vote or publication	No	Approve
CEN/BT	2022/c069: CEN-CLC/BTWG 14 - Request for Annex ZA/ZZ and normative references in hENs after vote or publication	No	Approve
CEN/BT	2022/c070: CEN-CLC/BTWG 12 - Approval of guidance on normative references in hENs	No	Approve
CEN/BT	2022/c074: CEN-CLC/SF Machinery - Informative Annex ZA under Machinery Directive - tool for TCs	No	Approve

CEN/BT	2022/c077: CEN-CLC/SF Machinery - Appointment of Chair	No	Approve
CEN/BT	2022/c079: CEN-CLC/eMCG - New ToR	No	Approve
CEN/BT	2022/c080: CEN-CLC/eMCG - Vice-Chair	No	Approve
CEN/BT	2022/c073: CEN/TC 286 - FprEN 12252 - Technical changes after FV	No	Approve
CLC/BTTF 116-2	prEN 50436-1: N/a	Yes	Approve

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

NSAI adopted the following standards in the electrotechnical area:

- 325 as I.S. EN IEC
- 106 as I.S. EN
- 2 as NSAI/CLC/TR
- 24 as NSAI/CEN/CLC/TR
- 5 as NSAI/CLC/TS
- 1 as NSAI/CEN/CLC/TS
- 3 as NSAI/CWA
- 6 as NSAI/HD
- 6 as I.S. EN ISO/IEC

6.2 Reviews

All review work carried out by NSAI/ETC Committees has been documented in the relevant Annual report within the electrotechnical sector. Each subcommittee reports on the review work which they have carried out to the main ETC committee during the meetings conducted throughout the year.

The following documents were reviewed, and it has been decided to withdraw them:

ET 101:2008/A3:2018 ET 101:2008/AC:2018	National Rules for Electrical Installations - Amendment No. 3 National rules for electrical installations	
ET 101:2008+A1&A2	National rules for electrical installations	
ET 107	National rules for inspection and certification of existing electrical installations for reconnection to the distribution system	Withdraw
ET 204	Code of practice for control systems involving programmable electronic products and systems	31/07/2022
ET 205	Guide to the installation of extra-low voltage lighting systems	
ET 207 - 3rd ed	Guide to national rules for electrical installations	
ET 208	Code of practice for the design, selection and erection of LV switchboards for residential applications	



ET 210 ET 211	Code of practise for the selection and installation of low voltage generators Code of practise for public lighting installation in residential areas	
ET 206:2009A33:O34 ET 206A:2000 ET 213 ET 215	The Management of Electrical Safety at Work Procedural guidelines for working on electrical installations Guide to the Basic Principles of Electrical Safety Guide to the maintenance, inspection and testing of portable equipment (Electrical appliances and tools) in the workplace	Withdrawn 31/07/2022 & Hand over to HSA
ET 103:2015	National Rules for Electrical Installations Power installations exceeding 1 kV a.c. (1.5 kV d.c.)	Withdrawn 01/11/2019
ET 105:2011	National Rules for Electrical Installations in Potentially Explosive Atmospheres (3rd Edition)	Withdrawn 26/11/2018
ET 201	Code of practice for the design, selection and erection of low voltage switchboards for industrial/commercial applications	Withdrawn 29/05/2020
ET 202	Guide to the selection of electrical apparatus for use in potentially explosive atmospheres	Withdrawn 16/11/2011
ET 209	A recommended maintenance & inspection routine for electrical installations in potentially explosive atmospheres	Withdrawn 16/11/2011

7 Work programme for 2023 onwards

For 2023, 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

No additional information.