ANNUAL REPORT 2025

NSAI TECHNICAL COMMITTEES (NSAI/ETC/TC 21 "ELECTROSTATICS")

Contents

1 Chair Statement

We would like to thank members for their participation in NSAI ETC TC 21 this year and once again thank Amanda-Jane for her work in role as secretary.

NSAI ETC TC 21 met 4 times this year.

The committee would like to thank Colman Byrne for his involvement on the committee and wish him well on his retirement. The committee also welcomed DR P.J Cregg from SETU with expertise in Electrostatics and Electromagnetics.

The National committee was represented this year in the IEC 101 working groups and the IEC TC 101 plenary meeting in July.

As enquired by our committee it was established that the Chair of TC 101 effectively acts as a liaison between IEC TC 47 and JEDEC (committee for solid state device manufacturers which would also cover ESD).

A new WG has been established to look at ESD failures and hazards in Lithium-Ion Batteries with a view to a new standard.

There was some concern the new OSD format for commenting of standards as to the ability to track comments.

Ireland has been asked to host TC 101 and will look at the feasibility of hosting it in 2028.

Most of the work this year went into review specifies of IEC 61340-5-X series of standards which concerns Electrostatic control for the protection of Electronic devices in manufacturing.

We look forward to working together in 2026.

Lewis Brien

Chair of NSAI/ETC/TC 21.

2 Introduction

NSAI/ETC/TC 21 was established to coordinate the national input to the work of IEC TC 101 Electrostatics with reference to:

- Standardisation in the field of electrostatics to provide general guidance on test methods to evaluate the generation, retention and dissipation of electrostatic charges.
- Ascertaining the effect of electrostatic discharges.
- Methods of simulation of electrostatic phenomena for testing purposes.
- Requirements for design and implementation of handling areas or procedures, equipment, and materials used to control or eliminate electrostatic hazards or undesirable effects.

3 Scope of TC

The work of NSAI/ETC/TC 21 serves the needs of all sectors of Irish industry with the requirement to control electrostatic phenomena. This includes enterprises working the electronics sector, occupational and process safety and electrostatic nuisance management.

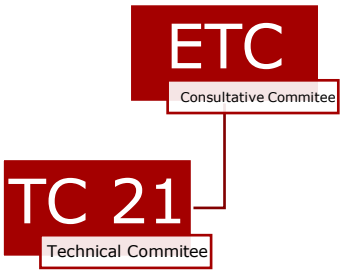
The committee mirrors the following international committee:

Committee Name	Committee Title
IEC TC 101	Electrostatics
CLC/SR[1] 101	Electrostatics

4 Structure and Membership

4.1 Structure

The Figure below illustrates the structure of the Committee:



4.2 Members

2025 maintained similar membership to last year. The table below list the members represented on the committee for the year:

Organisation	Role
Analog	National Committee Member
Compliance Engineering Ireland	**National Chairperson**
Consultant	National Committee Member
Dell	National Committee Member
Kostal	National Committee Member
Veolia Energy Services	National Committee Member -Liaison
NSAI	**National Secretary**

[1] https://boss.cenelec.eu/TechnicalStructures/Pages/SR

5 Summary of 2025 Activities

5.1 National

5.1.1 Meetings

The Committee members attended virtually the following national meetings:

Meeting No.	Date	Minutes Reference
1	2025/02/11	N628
2	2025/06/10	N635
3	2025/09/02	N640
4	2025/11/04	N643

5.1.2 National Work

The committee met 4 times in 2025 and are focused on allowing Irish experts' participation in the development of the IEC 61340 series of standards by IEC TC 101.
The IEC 61340 series is comprised of five parts:

- Part 1 – General,
- Part 2 – Measurement methods in electrostatics,
- Part 3 – Methods for simulating electrostatic effects,
- Part 4 – Standard test methods for specific applications and
- Part 5 – Protection of electronic devices from electrostatic phenomena.

5.2 International/Regional

5.2.1 Meetings

Committee members attend the following international IEC meetings in 2025.

Committee Name	Location	Date	No. of Attendees
IEC/TC 101 Plenary	Munich Germany	2025-06-30 -2025-07-04	1 – in person
Maintenance of IEC TR 61340-1, IEC 61340-2-1/-2/-3 and IEC TS 61340-4-2, Methods for testing static dissipative materials and surfaces	Munich Germany	2025-06-30 -2025-07-04	1 – in person
Strategic Planning Group (SPG)	Munich Germany	2025-06-30 -2025-07-04	1 – in person
CEN CLC JTC 23 WG4	Workshop	2025-01-28	

5.2.2 International/Regional Work

NSAI/ETC/TC 21 monitors the work of IEC TC 101 and members of the committee attended maintenance teams and working group meetings.

5.2.3 International/Regional Standards Reviewed

The committee continue to review standards as they arise in IEC & CLC.

The committee has been actively attending IEC meeting in relation to IEC TC 101. The committee provided comments to the following documents:

101/745/Q Do you agree that a glossary of terms from the IEC 61340 series of publications shall be included as an informative annex in the next revision of IEC 61340-1 + AMD 1?

5.2.4 International/Regional Voting Results

The committee have actively voted on 6 documents in 2025 and have submitted 1 set of comments.

Active votes were broken down as 5 for IEC documents and 1 for CENELEC documents.

Body	Vote Reference	Comments Submitted	Decision	WIID
IEC	101/728/DTR		Abstain	
IEC	101/726/CD		No comments	
IEC	101/739/FDIS		Approve	
IEC	101/734/DTS		Abstain	
IEC	101/745/Q	Comments	Approve	
CLC	FprEN IEC 61340-4-7:2025		Approved	73839

5.3 Regulatory Development/Update

The committees did not review any regulatory developments.

Electrostatic is included in the following EU Directive.

- Directive 2014/35/EU Low Voltage Directive (LVD).

6 Irish Publications/Reviews

6.1 Publications

The Committee did not publish any deliverables this year.

6.2 Reviews

The Committee carried out no reviews of Irish national deliverables.

7 Work programme for 2026 onwards

The committee have agreed to meet once/quarter in 2026. It was accepted that any matters concerning a committee member in relation to a standard can be discussed between committee members on a technical level, via email or phone. If action is required, the matter can be sent to secretary to enact or query further. The chair is open to contact at any stage to aid or discuss.

The committee will continue to attend and contribute at the IEC & CLC level throughout 2026 by reviewing, inputting Irish comments and voting on the various stages of standards development.

The number of work programmes taking place in the relevant IEC committee are listed and detailed below:

- IEC TC 101 2 work programmes.

IEC Work Programme:

IEC	Project Reference	Title	Document Reference	Working Group	Fcst. Publ. Date
TC 101	IEC TS 61340-5-4 ED2	Electrostatics - Part 5-4: Protection of electronic devices from electrostatic phenomena - Compliance verification	101/726/CD	WG 5	2026-04
TC 101	IEC TS 61340-2-4 ED1	Electrostatics - Part 2-4: Measurement methods - Electrostatic discharge characterisation of non-metals	101/729/NP	PT 61340-2-4	2027-10

Projects administratively led by other committees:

Project Reference	Title	Document Reference	Working Group	Fcst. Publ. Date
IEC TS 60079-32-1 ED2	Explosive atmospheres - Part 32-1: Electrostatic hazards - Guidance	31/1930/RR	TC 31/JWG 29	2027-09
IEC 60079-32-2 ED2	Explosive atmospheres - Part 32-2: Electrostatics hazards - Tests	31/1931/RR	TC 31/JWG 29	2027-10

8 Additional Information

No additional information.