ANNUAL REPORT 2025

NSAI TECHNICAL COMMITTEES (NSAI/ETC/RCDTF - RESIDUAL CURRENT DEVICES TASK FORCE)

Contents

1 Chair Statement

The NSAI/ETC/RCDTF continued its work throughout 2025, holding four online meetings during the year. These meetings addressed formal reporting on attendance at IEC and CENELEC sessions, matters arising from those engagements, and decisions on voting positions. We actively submitted comments and votes on all relevant IEC TC23/SC23E and corresponding CENELEC CLC 23E issues.

Our primary focus remained on IEC TC23E WG 8, building on work from 2024, and on new activities within CENELEC CLC 23E WG1 concerning revisions to EN 61008 and EN 61009 standards based on updated IEC editions. Particular attention was given to the void status of IEC 61008-2-2 and IEC 61009-2-2 within CENELEC and the need for Ireland to adopt these IEC standards in the absence of corresponding EN harmonised versions.

Looking ahead to 2026, we anticipate continued emphasis on IEC TC23E WG 8, further development of IEC 63053-2 ED1 for DC-RCCBs, and adoption of the new editions of IEC 61008 and IEC 61009 standards within CENELEC.

The Task Force extends its sincere thanks to Amanda-Jane Gainford for her tireless and good-humored support throughout the year, particularly her continued guidance on the new IEC Online Standards Development (OSD) platform, which will remain invaluable. We look forward to her continued assistance in the year ahead.

Donal O'Brien

Chair, NSAI ETC RCDTF

2 Introduction

NSAI/ETC/RCDTF is responsible for monitoring the work of CLC TC23E and IEC SC23E in so far as it relates to RCDs and for providing appropriate advice to NSAI.

A major feature of the work is the obligation and privilege to participate with both European and international standards bodies, namely CENELEC and IEC. NSAI/ETC/RCDTF engages with CENELEC TC23E and IEC TC 23/SC 23E. NSAI/ETC/RCDTF works to ensure that Irish concerns are considered during the creation and maintenance of standards at IEC and CENELEC level.

3 Scope of TC

NSAI/ETC/RCDTF Task Force is responsible for monitoring the work of CLC TC23E and IEC TC 23 SC23E in so far as it relates to RCDs and for providing appropriate advice to NSAI.

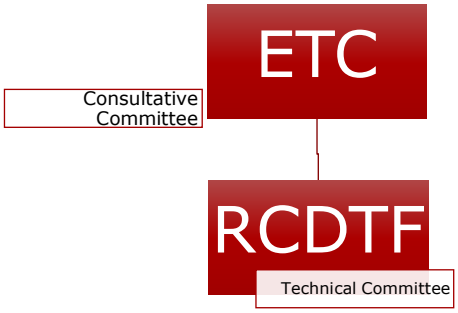
The Task Force mirrors the following international committees:

Committee Name	Committee Title
CLC/TC 23E	Circuit breakers and similar devices for household and similar applications
IEC/TC 23/SC 23E	Circuit-breakers and similar equipment for household use.

4 Structure and Membership

4.1 Structure

The Figure below illustrates the structure of the Task Force:



4.2 Members

The table below provides the members of the Task Force for the year:

Organisation	Role
NSAI	**SECRETARY**
Littel Fuse	**Chair**
ESB	National committee member
EV HACS	National committee member

5 Summary of 2025 Activities

5.1 National

5.1.1 Meetings

Task Force Members attended the following virtual National meetings in NSAI:

Meeting No.	Date	Minutes Reference
1	2025/01/20	N701
2	2025/03/31	N709
3	2025/08/18	N724
4	2025/10/20	N730

5.1.2 National Work

The Task Force met 4 times in 2025, virtually. The Task Force are focused on allowing Irish experts' participation in the development of Standards produced by IEC/TC 23/SC 23E.

The Task Force in November 2025, in accordance with P-ST-05, requested NSAI to seek NSAI Board approval for the adoption of the following standards:

- IEC 61008-2-2:2024 "Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Part 2-2: RCCBs according to classification 4.1.2, 4.1.3, 4.1.4, 4.1.5 and 4.1.6".

In 1995, IEC published IEC 1008-2-2:1995 "Residual Current Operated Circuit-Breakers Without Integral Overcurrent Protection for Household and Similar Uses (RCCB's) - Part 2-2 Applicability of the General Rules to RCCB's Functionally Dependent on Line Voltage". NSAI experts participated in the drafting of IEC 1008-2-2.

This standard was adopted as an Irish Standard in July 1995.

This standard has now been revised and published at IEC as IEC 61008-2-2:2024 "Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Part 2-2: RCCBs according to classification 4.1.2, 4.1.3, 4.1.4, 4.1.5 and 4.1.6".

It was recommended by the NSAI Electrotechnical Task Force Group (NSAI/ETC/RCDTF) that NSAI revoke I.S. IEC 1008-2-2:1995 "Residual Current Operated Circuit-Breakers Without Integral Overcurrent Protection for Household and Similar Uses (RCCB's) - Part 2-2 Applicability of the General Rules to RCCB's Functionally Dependent on Line Voltage".

The NSAI Electrotechnical Task Force Group (NSAI/ETC/RCDTF) recommends the adoption of the new version of the standard, IEC 61008-2-2:2024 "Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Part 2-2: RCCBs according to classification 4.1.2, 4.1.3, 4.1.4, 4.1.5 and 4.1.6" as an Irish Standard.

This project was presented to the TAF at the meeting on the 3rd of November 2025. The TAF approved the project.

- IEC 61009-2-2:2024 "Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) - Part 2-2: RCBOs according to classification 4.1.2, 4.1.3, 4.1.4, 4.1.5 and 4.1.6"

  In 1995, IEC published IEC 1009-2-2:1995 "Residual Current Operated Circuit-Breakers with Integral Overcurrent Protection for Household and Similar Uses (RCBO's) - Part 2-2 Applicability of the General Rules to RCBO's Functionally Dependent on Line Voltage". NSAI experts participated in the drafting of IEC 1009-2-2.

  This standard was adopted as an Irish Standard in July 1995.

  This standard has now been revised and published at IEC as IEC 61009-2-2:2024 "Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) - Part 2-2: RCBOs according to classification 4.1.2, 4.1.3, 4.1.4, 4.1.5 and 4.1.6".

  It was recommended by the NSAI Electrotechnical Task Force Group (NSAI/ETC/RCDTF) that NSAI revoke I.S. IEC 1009-2-2:1995 "Residual Current Operated Circuit-Breakers With Integral Overcurrent Protection for Household and Similar Uses (RCBO's) - Part 2-2 Applicability of the General Rules to RCBO's Functionally Dependent on Line Voltage".

  The NSAI Electrotechnical Task Force Group (NSAI/ETC/RCDTF) recommends the adoption of the new version of the standard, IEC 61009-2-2:2024 "Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) - Part 2-2: RCBOs according to classification 4.1.2, 4.1.3, 4.1.4, 4.1.5 and 4.1.6" as an Irish Standard.

  This project was presented to the TAF at the meeting on the 3rd of November 2025. The TAF approved the project.

  These projects were approved by the NSAI board, at the 179th Board Meeting held on the 28th November 2025. These standards will be published in Q1 2026.

5.2 International/Regional

5.2.1 Meetings

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

Committee Name	Location	Date	No. of Attendees
IEC TC23E WG 8	Virtual	2025/03/10	1

5.2.2 International/Regional Work

The TF continue to monitor the work internationally had provide input as necessary.

5.2.3 International/Regional Standards Reviewed

The Task Force are following the work programmes covered by IEC/TC 23/ SC23E.

5.2.4 International/Regional Voting Results

The Task Force have actively voted on 7 documents in 2025 and have submitted 4 set of comments.

Active votes were broken down into 6 IEC documents & 1 CENELEC documents.

Body	Vote Reference	Comments Submitted	Decision	WIID
IEC	23E/1384/CDV	N/A	Abstain	
IEC	23E/1393/CD	15 comments submitted N0703	Comments	
IEC	23E/1394/DC	15 comments submitted N0704	Comments	
IEC	23E/1397/CD	7 comments submitted N0708	Comments	
IEC	23E/1402/CD	3 comments received N0726	Comments	
IEC	23E/1399/DC	N/A	Abstain	
CLC	prEN IEC 63508:2024, See 23E/1384/CDV	Default	Abstain	

5.3 Regulatory Development/Update

No work in this area.

6 Irish Publications/Reviews

6.1 Publications

The Task Force did not publish any deliverables this year, however they have received approval to publish the below two standards as Irish Standards in Q1 2026.

> IEC 61008-2-2:2024 "Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Part 2-2: RCCBs according to classification 4.1.2, 4.1.3, 4.1.4, 4.1.5 and 4.1.6".
>
> IEC 61009-2-2:2024 "Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) - Part 2-2: RCBOs according to classification 4.1.2, 4.1.3, 4.1.4, 4.1.5 and 4.1.6".

The project was approved by the NSAI board, at the 179th Board Meeting held on the 28th November 2025.

6.2 Reviews

The Task Force reviewed the following two standards:

IEC 1008-2-2:1995 "Residual Current Operated Circuit-Breakers Without Integral Overcurrent Protection for Household and Similar Uses (RCCB's) - Part 2-2 Applicability of the General Rules to RCCB's Functionally Dependent on Line Voltage".

IEC 1009-2-2:1995 "Residual Current Operated Circuit-Breakers with Integral Overcurrent Protection for Household and Similar Uses (RCBO's) - Part 2-2 Applicability of the General Rules to RCBO's Functionally Dependent on Line Voltage". NSAI experts participated in the drafting of IEC 1009-2-2.

The Task Force sought approval to revoke these two standards and to adopt the latest version of these standards, IEC 61008-2-2:2024 & IEC 61009-2-2:2024 as Irish Standards.

7 Work programme for 2026 onwards

The RCD TF will continue to maintain a high level of engagement with IEC (SC23E) and CENELEC (TC23). As a Task Force, we will continue to monitor amendments and reforms and actively engage with the standards bodies through the various working groups. A sample of the areas where work is planned can be seen below.

The TF Task Force will continue to hold meetings at least once per quarter and continue to convene more frequently, as needs arise, in advance of official WG meetings to discuss, propose and prepare comments on relevant issues.

The TF will continue its practice of circulating proposed comments and amendments prior to our scheduled Task Force meetings to enable thorough engagement by our members and the efficient running of meetings and ensure timely voting.

As a Task Force we will be actively engaged in, but not limited to, developments in the IEC, CENELEC and other National matters through the relevant working groups dealing with the associated standards, as follows:

7.1 IEC:

7.1.1 IEC/TC23/SC23E/WG2:

Shock-hazard protective devices, arc-fault detection devices, residual current monitors and other protection devices.

WG2 have a work programme for the following standards:

- **IEC 62020-1/AMD1 ED1**
  Amendment 1 - Electrical accessories - Residual current monitors (RCMs) - Part 1: RCMs for household and similar uses.
  The standard was at CD stage in June 2025. Planned enquiry stage is set for 2026-06-26, with publication due 2027-11-26.

- **IEC 62423 ED3**
  Type F and type B residual current operated circuit-breakers with and without integral overcurrent protection for household and similar uses.
  Currently in progress with edition 3 publication. The standard was at CD stage in January 2025. Planned enquiry stage is set for 2026-02-13, with publication due 2027-01-29. The Task Force is working with the OSD tool.

- **IEC 63053-2 ED1**
  Residual current operated circuit-breakers for household and similar uses for dc systems - Part 2: Residual current operated circuit breakers without integral overcurrent protection (DC-RCCBs).
  The standard is now under development. The standard was at CDV stage in December 2025. Planned enquiry stage is set for 2025-12-31, with publication due 2027-12-31.

- **IEC 61008-1 2024 ED 4**
  Stability Date – 2029
  Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs)

- **IEC 61009-1 2024 ED 4**
  Stability Date – 2029
  Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs)

- **IEC 62606:2013+AMD1:2017+AMD2:2022**
  Stability Date – 2026
  General requirements for arc fault detection and protection devices (AFDDs)

- **IEC 61543: 2022 ED 2**
  Stability Date – 2026
  Residual current-operated protective devices (RCDs) for household and similar use - Electromagnetic compatibility

7.1.2 IEC/TC23/SC23E/WG7:

Protective devices for the charging of electrical vehicle

WG 7 is dormant at present.

- **IEC 62752:2024 ED 2**
  Stability Date - 2028
  In-cable control and protection device (IC-CPD) for mode 2 charging of electric road vehicles

7.1.3 IEC/TC23/SC23E/WG8:

Protective devices for battery powered vehicle applications

WG8 have a work programme for the following standards:

- **IEC 62955 ED2**
  Residual direct current detecting device (RDC-DD) to be used for mode 3 charging of electric vehicles.
  This standard was at CDV stage in September 2025. It is due for approval in 2026-12-18, with publication expected in 2027-05-14.

7.1.4 IEC/TC23/SC23E/WG10:

Product data

The Task Force is not following work in this area.

7.1.5 IEC/TC23/SC23E/WG12:

Protective devices based on semiconductor technology for household and similar use.

The Task Force is not currently following work in this area.

7.2 CENELEC

7.2.1 CLC/TC23E/WG1

This WG mirrors the development of the IEC standards mentioned above.

There have been many recent revisions of the IEC standards mentioned below within the past 18-24 months and as a result the committee is keeping close attention on the harmonized versions that follow within the CENELEC framework, with particular focus on EN61008 and EN61009.

- EN61008 - Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) - Part 1: General rules (RCCBs)
- EN61009 - Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) - Part 1: General rules (RCBOs)
- EN 62955 - Residual direct current detecting device (RDC-DD) to be used for mode 3 charging of electric vehicles.
- EN61540 - Standard for Portable Residual Current Devices
- EN62020 - Standard for Residual Current Monitors
- EN62606 - General requirements for Arc Fault Detection Devices
- EN 62423 - Type F and type B residual current operated circuit-breakers with and without integral overcurrent protection for household and similar uses.

7.3 National Work Item

7.3.1 NSAI Publications

The Task Force have received approval to publish the below two standards as Irish Standards in Q1 2026.

IEC 61008-2-2:2024 "Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Part 2-2: RCCBs according to classification 4.1.2, 4.1.3, 4.1.4, 4.1.5 and 4.1.6".

IEC 61009-2-2:2024 "Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) - Part 2-2: RCBOs according to classification 4.1.2, 4.1.3, 4.1.4, 4.1.5 and 4.1.6".

8 Additional Information

No additional information.