



**NSAI**

# ANNUAL REPORT 2022

NSAI TECHNICAL COMMITTEES  
(NSAI/ETC/TC 16)

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## 1 Chairman's Statement

NSAI ETC TC16 continues to be highly active. The introduction of new technologies including sustainable power systems and 5G ensures that there are new requirements presenting new EMC challenges.

The increased use of switching technologies for power supplies and inverters in renewable energy systems including wind and solar photovoltaic has resulted in the need for new DC test methods. In addition, the increased use of power systems for data transmission (Power Line Transmission) is resulting in new emissions limits being developed in the frequency range of 9 kHz to 150 kHz which was previously largely unregulated for most products. Cenelec currently has 84 documents and standards under consideration.

The adoption of standards in the OJEU continues to present difficulties and increased cooperation with the HAS consultants will be required to enable Cenelec standards to be listed in the OJEU. A new contract has been agreed with to provide HAS consultants.

Particular issues being addressed in Cenelec and IEC include:

- Cyber security – new EU mandate – requirement for a new standard to meet the requirements of the Radio Equipment Directive delegated act.
- New requirements for air-gap wireless power transfer (WPT)
- Conducted emission requirements in the frequency range 9 kHz -150 kHz
- The EU is seeking strengthened performance criteria definition in standards – manufacturers will have to demonstrate compliance with stated performance.
- The EU is concerned about the tolerances allowed in EMC Standards
- Consideration of emissions limits in the 2 kHz to 9 kHz range

John McAuley

Chair of NSAI/ETC/TC 16.

## 2 Introduction

NSAI/ETC/TC 16 focus on standardization related to electromagnetic compatibility across the entire frequency spectrum. Consideration extends to all aspects of the ability of equipment or a system to function satisfactorily in its electromagnetic environment without introducing intolerable electromagnetic disturbances to anything in that environment.

### 3 Scope of TC

NSAI/ETC/TC 16 prepare European standards in the field of electromagnetic compatibility across the entire frequency spectrum.

Standards are available from [www.standards.ie](http://www.standards.ie).

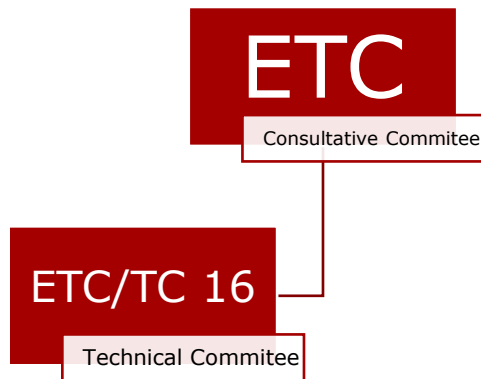
The committee mirrors the following international committees:

CLC/TC 210	Electromagnetic Compatibility (EMC)
CLC/TC 8x	System aspects of electrical energy supply
IEC/TC 77	Electromagnetic compatibility
IEC/CISPR	International special committee on radio interference
IEC/TC 8	TC 8 Related to 50160
IEC/TC 62	TC 62 Related to 60601-1-2
IEC/TC 65	TC 65 Related to 61326
IEC/TC 47	Semiconductor devices

### 4 Structure and Membership

#### 4.1 Structure

The Figure below illustrates the structure of the Committee:



#### 4.2 Irish Industry/Sector

NSAI/EC/TC 16 is made up of manufacturers of electrical and electronic equipment, test houses, consultants, utilities, notified body, regulator, academia and equipment users.

## 4.3 Members

The table below provides the names of the committee members for the year 2022:

Organisation	Role
2RN	National committee member
Analog	National committee member
Apple	National committee member
CEI	<b>National chairperson</b>
ComReg	National committee member
Dell	National committee member
E.M.T.	National committee member
EirGrid	National committee member
Independent	National committee member
Intel	National committee member
IRTS	National committee member
IRTS	National committee member
Medtronic	National committee member
NSAI	<b>National secretary</b>
Qorvo	National committee member
2RN	National committee member
Analog	National committee member

## 5 Summary of 2022 Activities

### 5.1 National

#### 5.1.1 Meetings

Committee Members attended the following Virtual National meetings:

Meeting No.	Date	Minutes Reference
1	2022/12/12	<a href="#">N0829</a>
2	2022/06/10	<a href="#">N0814</a>

#### 5.1.2 National Work

It was intended to hold at least two national committee meetings and attend TC meetings during 2022. This work was completed.

### 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
IEC TC 77 Plenary	Virtual		
CLC TC 210 Plenary	Virtual	2022/12/15	AJG, TOT, JMCA
CLC TC 210 Plenary	Virtual	2022/06/13 2022/06/14	AJG, JMCA AJG, JMCA
CLC/TC 8x/WG 01			

IEC/CISPR/CIS/I/MT 7			
IEC/CISPR/CIS/I/MT 8			
IEC/TC 47 Plenary	F2F	2022/11/04	AR
IEC/TC 47/SC 47A Plenary	F2F	2022/11/03	AR
IEC/TC 47/SC 47A/WG 2	F2F	2022/11/02	AR
		2022/06/02	AR
IEC/TC 47/SC 47A/WG 7	F2F	2022/11/03	AR
IEC/TC 47/SC 47A/WG 9	F2F	2022/10/31	AR
		2022/11/01	AR
		2022/06/01	AR
		2022/05/31	AR
IEC/TC 77/SC 77A /WG 1			
IEC/TC 77/SC 77A /WG 2			
IEC/TC 77/SC 77A /WG 6			
IEC/TC 77/SC 77A /WG 8			
IEC/TC 77/SC 77A /WG 9			
IEC/TC 77/WG 13			
CLC BTWG 154-1	Virtual	2022/11/22	TO'T
		2022/12/05	TO'T

### 5.2.2 International/Regional Work

Various committee members attended Plenary sessions during 2022, both in person and virtually.

### 5.2.3 International/Regional Voting Results

NSAI/ETC/TC 16 propose a vote where required for IEC or CENELEC documents, which NSAI submits to the relevant bodies.

The committee have actively voted on 26 documents in 2022 and have submitted 7 sets of comments.

Active votes were broken down as 18 for IEC documents and 8 for CENELEC documents.

Body	Vote Reference	Comments Submitted	Decision	WIID
IEC	47A/1132A/CDV	No	Approve	
IEC	47A/2780e/Q	No	Approve	
IEC	77A/1143/CD	Yes	Approve	
IEC	77B/856/CDV	Yes	Approve	
IEC	CIS/A/1369/CD	No	Abstain	
IEC	CIS/A/1370/Q	Yes	Approve	
IEC	CIS/B/777/CDV	No	Approve	
IEC	CIS/B/778/CDV	No	Approve	
IEC	CIS/B/779/CDV	No	Approve	
IEC	CIS/B/780/CDV	No	Approve	
IEC	CIS/B/781/CDV	No	Approve	
IEC	CIS/B/782/CDV	No	Approve	
IEC	CIS/D/483/CDV	No	Approve	
IEC	CIS/D/484/Q	Yes	Approve	

IEC	CIS/H/452/Q	Yes	Approve	
IEC	CIS/I/655/CD	No	Approve	
IEC	CISPR/1472/Q	Yes	Approve	
IEC	CISPR/1476/DC	No	Abstain	
CLC	prEN IEC 55011:2021 (fragment 2)	No	Approve	72201
CLC	prEN IEC 55011:2021 (fragment 3)	No	Approve	72200
CLC	prEN IEC 55011:2021 (fragment 4)	No	Approve	72206
CLC	prEN IEC 55011:2021 (fragment 5)	No	Approve	72198
CLC	prEN IEC 55011:2021 (fragment 6)	No	Approve	72204
CLC	prEN IEC 55011:2021 (fragment 7)	No	Approve	72203
CLC	prEN IEC 61000-4-6:2022	Yes	Approve	
CLC	EN IEC 55036:2020/prA1:2022	No	Approve	73984

CLC/TC 210	Electromagnetic Compatibility (EMC)	Voted 8 times
CLC/TC 8x	System aspects of electrical energy supply	Voted 0 time
IEC/TC 77	Electromagnetic compatibility	Voted 2 times
IEC/CISPR	International special committee on radio interference	Voted 14 times
IEC/TC 8	TC 8 Related to 50160	Voted 0 time
IEC/TC 62	TC 62 Related to 60601-1-2	Voted 0 time
IEC/TC 65	TC 65 Related to 61326	Voted 0 time
IEC/TC 47	Semiconductor devices	Voted 2 times

## 6 Irish publications/Reviews

### 6.1 Publications

No new publications were issued in 2022

### 6.2 Reviews

The committee continue to review documents issued by IEC and CENELEC. No Irish publications were reviewed this year.

## 7 Work programme for 2023 onwards

It is intended to hold at least two committee meetings and attend WG meetings during 2023. The next plenary meetings of CLC/TC TC210 to be held in April 2023 as a hybrid meeting.

## 8 Additional Information

No additional information.