



NSAI

ANNUAL REPORT 2023

NSAI TECHNICAL COMMITTEE
NSAI/TC 59 – ENERGY
MANAGEMENT & ENERGY
SAVINGS

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1 Chair

Mr Ian Boylan is the Chairman of this National Mirror Committee. He is a former Senior Electrical Engineer with the Irish Naval Service and worked as an Energy Services Manager for an Irish Energy Management Consultancy. He is a Chartered Engineer and a member of the Institute of Engineers of Ireland, founder president of the Association of Energy Engineers (Irish Chapter).

Mr Boylan has received the ISO Excellence Award, in recognition of his excellent service in ISO/TC 301 and, in particular, for championing the dual role of auditor and client ensuring that energy excellence was present in every aspect of the development and publication of the revision of ISO 50003 – Energy management systems – Requirements for bodies providing audit and certification of energy management systems. His persistence was key in achieving the successful publication.

2 Introduction

NSAI TC 59 mirrors the work of the ISO Standards Technical Committee of [ISO/TC 301](#) and the European Technical Committee of [CEN/CENELEC/JTC 14](#), both provide globally recognized standards for managing energy over time and for calculating and reporting energy savings. Energy savings represent an essential component of meeting climate goals, and energy management enables organizations across all sectors to realize on-going energy consumption reductions.



Standards contribute greatly to urgently addressing global emissions

3 Scope of TC

Standardization in the field of energy management for improved energy performance and energy savings calculations.

The National Committee will participate in the development of International Standards at an ISO level and at a European level in a Joint Technical Committee between CEN and CENELEC.

The International Standards published by ISO may be adopted as European Standards. NSAI will adopt European Standards as Irish Standards.

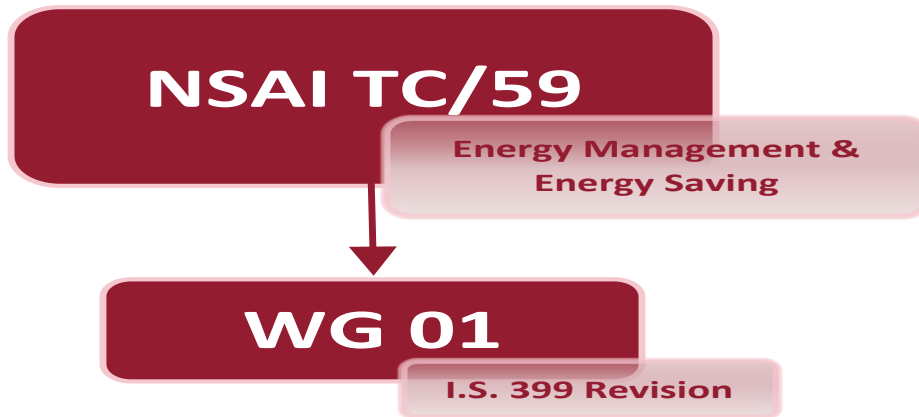
The committee mirrors the following committees:

Committee Name	Committee Title
ISO/TC 301	Energy management and energy savings
ISO/TC 301/WG 1	Energy management
ISO/TC 301/WG 2	Metrics and measurement internal to the organization
ISO/TC 301/WG 16	Zero Net Energy
CEN/CLC/JTC 14	Energy management and energy efficiency in the framework of energy transition

4 Structure and Membership

4.1 Structure

The Figure below illustrates the structure of the National Committee:



4.2 Members

The list below are the members for the year 2023:

Organisation	Role
NSAI	Secretary
Target Energy	Chairman
Authentic	Committee member
Dalata Hotel Group	Committee member
Dandelion	Committee member
Energy Conservation Options	Committee member
Energy Solutions	Committee member
ESB	Committee member
Frontline Energy	Committee member
GEN Europe	Committee member
Grid Beyond	Committee member
IERC	Committee member
Munster Technological University	Committee member
O'Connor Sutton Cronin	Committee member
OCSC	Committee member
Optien	Committee member
SEAI	Committee member
SEAI	Committee member
SEMO	Committee member
Sustineo	Committee member
Target Energy	Committee member
The International Energy Research Centre	Committee member
University College Cork	Committee member
University College Dublin	Committee member
Vivid Edge	Committee member

5 Summary of 2023 Activities

5.1 National

5.1.1 Meetings

The meetings were conducted online having regarding to reducing the burden and environmental impact of travel for members. Committee members attended the following national meetings:

Meeting No.	Date	Minutes Reference No
1	25 th January 2023	N 130
2	29 th March 2023	N 138
4	01 st September 2023	N 155
5	24 th November 2023	N 163

5.1.2 National Work

In 2021 this Committee revised I.S. 399:2014 *Energy efficient design management – Requirements with guidance for use*, with the publication of I.S. 399:2021 in November 2021. I.S. 399:2021 sets out a systematic approach for the consideration of energy consumption and CO2 emissions through a design development process of capital projects. In 2022 the committee succeeded in running a successful social media campaign across NSAI's social media platforms. Throughout 2022 & 2023 the committee promoted this standard.

All of the ISO/TC 301 and CEN/CENELEC/JTC 14 Standards that are adopted/produced as European Standards will be published as Irish Standards.

5.2 International/Regional

5.2.1 Meetings

Committee members attended international meetings as follows:

Committee Name	Location	Date	No. of Attendees
ISO/TC 301	United States	17 th -19 th July 2023	1
CEN/CENELEC JTC 14	Belgium	27 th April 2023	0
CEN/CENELEC JTC 14	Online	28 th Nov 2023	0

5.2.2 International/Regional Work

Ireland is committed to following and inputting into the development of International and European Standards. The National Committee reviews, comments and votes on each of the public comment drafts circulated by ISO/TC 301 & CEN/CENELEC/JTC 14.

Ireland has six experts participating in the Working Groups that are drafting Standards at an International level, while at a European level it has four experts contributing to these Working Groups that are drafting Standards.

5.2.3 International/Regional Standards Reviewed

ISO/NP 24492, *Energy management systems and energy savings --Decarbonization*

ISO/NP 22265, *Energy measurement and monitoring plan – Design and implementation – Principles for energy data collection*

ISO/FDIS 50006 (Ed 2), *Energy management systems – Evaluating energy performance using energy baselines and energy performance indicators*

ISO/ ISO 50001:2018 (Ed 2), *Energy management systems – Requirements with guidance for use*

5.2.4 International/Regional Voting Results

The Committee voted on twelve out of the twenty-six international ballots in 2023.

5.3 Regulatory Development/Update

The standards revised and produced by this Technical Committee are significant to the European Green Deal COM (2019) 640 final, the EU is increasing its climate ambition and aims at becoming the first climate-neutral continent by 2050. The Commission has revise the Energy Efficiency Directive (EU) 2018/2002, together with other EU energy and climate rules, to ensure that the new 2030 target of reducing greenhouse gas emission by at least 55%.

The new, recast Energy Efficiency Directive (EU) 2023/1791, which was adopted by the European Parliament and the Council earlier this year, has been published in the EU Official Journal on the 20th of September and entered into force 20 days later. This now means that EU Member States will have two years to transpose most of the different elements in the directive into national law.

Furthermore, The Fit for 55 package is a set of proposals to revise and update EU legislation and to put in place new initiatives with the aim of ensuring that EU policies are into line with the climate goals agreed by the Council and the European Parliament.

6 Irish Publications/Reviews

6.1 Publications

This National Committee has produced I.S. 393:2005, *Energy management systems – Requirements with guidance for use* and I.S. 399:2014, *Energy efficient design management – Requirements with guidance*. The committee has published a revised of I.S. 399 in November 2021. I.S. 399:2021, *Energy efficient design – Requirements with guidance for use* sets out a systematic approach to the consideration of energy consumption and CO2 emissions through a design development process of capital projects. This revised standard is more applicable and valuable to smaller organisations including SMEs, making the application of the principles of energy efficient design a project specific application rather than as a management system standard.

6.2 Reviews

ISO/TC 301 and CEN/CENELEC JTC 14 have agreed not to duplicate work. Only in case the other organization is not interested, or the European Commission submits a Standardization request to CEN the standard will be developed "alone". The Committees are involved in standardization in the field of energy management and energy savings.

7 Work programme for 2024 onwards

7.1 ISO/TC 301

Organizations are increasingly motivated to improve energy management due to a range of internal and external factors. Internal factors include cost minimization/profit maximization, the need for better data on financial and environmental performance, meeting sustainability targets or improving competitiveness. External factors include regulatory requirements, supply chain considerations, responsibility to shareholders, energy security and reliability, or financial incentives for energy or environmental improvement. Therefore ISO/TC 301 are producing the following standards to support industry in achieving their energy improvement goals.

ISO/AWI 22265, *Energy measurement and monitoring plan – Design and implementation – Principles for energy data collection*

ISO/CD 24492, *Energy management systems and energy savings --Decarbonization – Requirements with guidance for use*

ISO 50001:2018/Amd 1, *Energy management systems – Requirements with guidance for use – Amendment 1: Climate action changes*

ISO/DIS 50002-1, *Energy audits – Requirements with guidance for use – Part 1: General requirements*

ISO/DIS 50002-2, *Energy audits – Requirements with guidance for use – Part 2: Buildings*

ISO/DIS 50002-3, *Energy audits – Requirements with guidance for use – Part 3: Processes*

7.2 CEN/CLC/JTC 14 – Energy management and energy efficiency in the framework of energy transition

CEN/CLC/JTC 14 is involved in Standardization in the field of energy management within the energy transition framework in close coordination with CEN/CENELEC sectorial strategy which supports the European Green Deal COM (2019) 640 final and the Energy Efficiency Directive (EU) 2018/2002. The following standards are being produced by CEN/CLC/JTC 14 to help support these actions.

prEN 301549 rev, *Accessibility requirements for ICT products and services*

8 Additional Information

NSAI is supportive of the Government's Climate Action Policy and had undertaken the commitment to publish an Irish Standard, in support of the Government's Climate Action Plan 2021. I.S.399:2021- Energy efficient design – Requirements with guidance for use, will enable organisations apply a systematic approach to Energy Efficient Design throughout the various steps of design, construction, and commissioning of investment projects. This action is listed as action 162 in the [Climate Action Plan 2021 Annex of Actions](#).

Committee members, Dr Susan Rea and Dr Alan McGibney from Munster Technological University were awarded an NSAI Innovation award for the use and application of standards in the DENiM Project. The project Highlights the strategic importance of standards, and how they played a critical role in the success of the DENiM Project.

Moreover, another committee member Mr Liam Mclaughlin is playing a leading role in the development of ISO/CD 24492 -- Energy management systems and energy savings – Decarbonization. This document specifies requirements and guidance that enable an organization to reduce its energy related greenhouse gas (GHG) emissions and complement ISO 50001:2018 -- Energy management systems requirements with guidance for use.

At the ISO's annual meeting, the Technical Management Board (TMB) passed a resolution regarding how management system standards (MSS) can support ISO's TMB Action Plan linked to the London Declaration on Climate Change. Resulting in added wording to spotlight climate change, that will be quickly incorporated into all ISO MSS.