



**NSAI**

# ANNUAL REPORT 2020

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

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## 1 Chairman's Statement

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).

## 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.

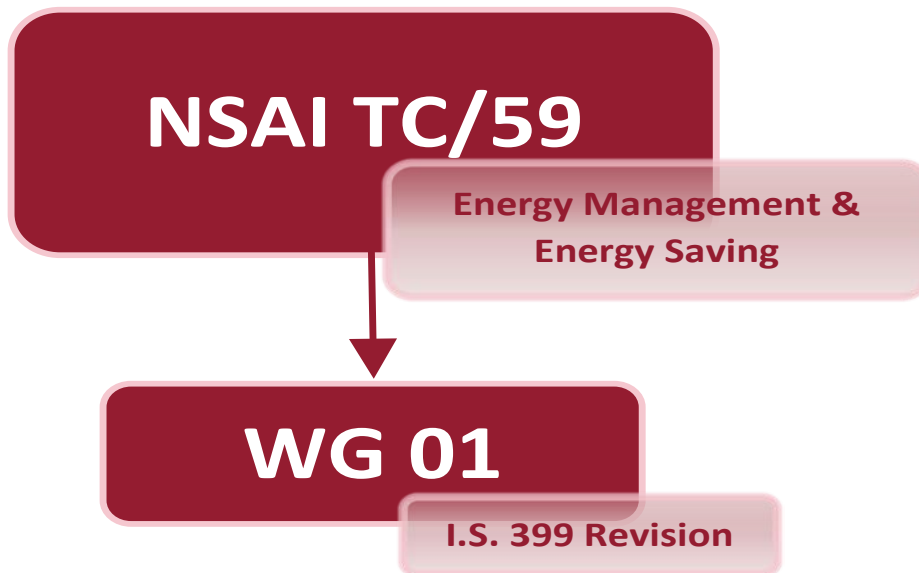
The committee mirrors the following committees:

Committee Name	Committee Title
<b>ISO/TC 301</b>	Energy management and energy savings
<b>ISO/TC 301/WG 1</b>	Energy management
<b>ISO/TC 301/WG 8</b>	Energy savings in regions
<b>CEN/CLC/JTC 14</b>	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 2020:

Organisation	Role
<b>NSAI</b>	Secretary
<b>NSAI</b>	Secretary Support
<b>NSAI</b>	Secretary Support
<b>NSAI</b>	Secretary Support
<b>Target Energy</b>	Chairman
<b>VIEDGE</b>	Committee member
<b>Zero Carbon</b>	Committee member
<b>Energy Conservation Options</b>	Committee member
<b>Sustineo</b>	Committee member
<b>ESB</b>	Committee member
<b>Cork Institute of Technology</b>	Committee member
<b>GEN Europe</b>	Committee member
<b>Dandelion</b>	Committee member
<b>Authentic</b>	Committee member
<b>Optien</b>	Committee member
<b>SEAI</b>	Committee member
<b>SEMO</b>	Committee member
<b>Energy Solutions</b>	Committee member
<b>SEAI</b>	Committee member
<b>OCSC</b>	Committee member
<b>SEAI</b>	Committee member

## 5 Summary of 2020 Activities

### 5.1 National

#### 5.1.1 Meetings

The meetings were conducted via web-conferencing due to the restrictions caused by Covid-19. Committee members attended the following national meetings as follows:

Meeting No.	Date	Minutes Reference No
1	06 <sup>th</sup> March 2020	N 14
2	03 <sup>th</sup> April 2020	N 15
3	18 <sup>th</sup> May 2020	N 27
4	04 <sup>th</sup> June 2020	N 34
5	02 <sup>nd</sup> July 2020	N 43
6	04 <sup>th</sup> September 2020	N 48
7	20 <sup>th</sup> November 2020	N 52

#### 5.1.2 National Work

This Committee is currently revising I.S. 399:2014 *Energy efficient design management – Requirements with guidance for use*, with publication date of December 2021. 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	Online	01-05 <sup>th</sup> June 2020	4
ISO/TC 301	Online	15 <sup>th</sup> June 2020	2
CEN/CENELEC JTC 14	Online	05 <sup>th</sup> November 2020	1

Due to COVID-19 the meetings were conducted via web-conferencing facilities.

#### 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 50004:2020, *Energy management systems — Guidance for the implementation, maintenance and improvement of an ISO 50001 energy management system*

ISO 50049:2020, *Calculation methods for energy efficiency and energy consumption variations at country, region and city levels*

ISO/NP 5471, *Energy management system —Measurement of energy management progress*

ISO/CD 50006.4, *ISO 50006 Energy management systems — Evaluating Energy Performance using Energy Baselines and Energy Performance Indicators*

ISO/DIS 50005, *Energy management systems — Guidelines for a phased implementation*

#### 5.2.4 International/Regional Voting Results

The Committee voted on twenty-one out of the thirty-one international ballots in 2020.

### 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 is looking to 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%.

## 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.* I.S. 399 is currently being revised by the Committee and will go out for Public Consultation early February 2021.

### 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 2021 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/FDIS 50003, *Energy management systems — Requirements for bodies providing audit and certification of energy management systems*

ISO/DIS 50005, *Energy management systems — Guidelines for a phased implementation*

ISO/CD 50006.2, *ISO 50006 Energy management systems — Evaluating Energy Performance using Energy Baselines and Energy Performance Indicators*

ISO/FDIS 50009, *Energy management systems — Guidance for implementing a common energy management system in multiple organizations*

ISO/AWI 50010, *Energy management and energy savings - Guidance for zero net energy in operations*

## 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 17463, *Methodology for the Valuation of Energy Related Investments (ValERI)*

prEN 16247-1, *Energy audits - Part 1: General requirements*

prEN 16247-2, *Energy audits - Part 2: Buildings*

prEN 16247-3, *Energy audits - Part 3: Processes*

prEN 16247-4, *Energy audits - Part 4: Transport*

prEN XXX, *Energy Performance Contracting - Minimum requirements*

prEN 16325 rev, *Guarantees of Origin for electricity, gaseous hydrocarbons, and hydrogen, and heating & cooling*

## 8 Additional Information

Ireland's invitation to host the 8<sup>th</sup> Plenary meeting of ISO/TC 301 from the 20<sup>th</sup> to the 24<sup>th</sup> of June 2022 has been accepted. Over seventy of the world's experts on Energy Management Systems are expected to attend this event.