



CONCERTED ACTION  
ENERGY EFFICIENCY DIRECTIVE



**LIEN**

Working Group Session 9.1 Article 7 implementation – Industry  
13/10/2021



Rialtas na hÉireann  
Government of Ireland

[www.seai.ie](http://www.seai.ie)

# Ireland – Article 7

# Sustainable Energy Authority of Ireland



- Help Ireland move towards a cleaner energy future
- This requires generating clean energy, and using less of it
- Work with households, businesses, communities and the public sector to enable them to become more energy efficient
- Offer a range of programs to support business decarbonisation

## Article 7 Target under EED

- Ireland's 2030 Article 7 cumulative target equates to 60,707 GWh (Final energy)
- Ireland has adopted alternative measures approach which includes a supplier obligation.
- A proportion of the target is allocated to regulatory measures and other national efficiency programmes (**Alternative measures**)
- ~ 40% (24,283 GWh) allocated to Alternative Measures
- The balance is then allocated as a target to the Obligated Parties
- The EEO target is further split into energy poor, residential and non-residential sub targets.
- <https://www.gov.ie/en/consultation/11050-public-consultation-on-the-energy-efficiency-obligation-scheme-eeos/>

## Notified Alternative Measures (2020 scheme)

- SME Programme
- Large Industry Energy Network
- Accelerated Capital Allowances
- Building Regulations
  - New Dwellings (2008, 2011, 2015)
  - New Buildings other than Dwellings (2014)
- Efficient Boiler Replacement
- Smart Meters
- VRT / Motor Tax
- Other Policy Measures (e.g. SEAI domestic grants)

## Notified Alternative Measures (2030 scheme)

- **SME Programme / Large Industry Energy Network**
- **Public Sector Programme**
- Accelerated Capital Allowances
- Building Regulations
  - New Dwellings (2008, 2011, 2015)
  - New Buildings other than Dwellings (2014)
- Efficient Boiler Replacement
- Smart Meters
- VRT / Motor Tax
- Other Policy Measures (e.g. **SEAI domestic grants**)
- **Carbon Tax**

# Large Industry Energy Network

# SEAI's Large Industry Energy Network (LIEN) Programme



**199**

of Ireland's largest energy users are members of LIEN



**140,000**

people are employed by Network members



**21%**

of Ireland's total primary energy requirement is accounted for by LIEN members

# SEAI's Large Industry Energy Network (LIEN) Programme



**202**

of Ireland's largest energy users are members of LIEN



**140,000**

people are employed by Network members



**21%**

of Ireland's total primary energy requirement is accounted for by LIEN members

- Energy demand (TPER) of 36,600 GWh in 2019,
- estimated energy spend of €1.3 billion.

# SEAI's Large Industry Energy Network (LIEN) Programme

- 202 members from across industry, mostly pharma, food and electronics clients.
- Companies with
  - ~ €1 million energy spend p.a.  
AND/OR Certified / Pursuing ISO 50001 Energy Management Standard
- Compliance with the EU Energy Efficiency Directive (mandatory audits)

# SEAI's Large Industry Energy Network (LIEN) Programme

- Commitments to be fulfilled by LIEN members:
  - Senior management commitment.
  - Commit resources
  - Develop and implement an energy management programme and action plan
  - Set and review energy targets
  - Report annually on energy performance
  - Foster staff engagement and participation
  - Willing to collaborate and share lessons learned to enhance energy performance

## Supports for LIEN Members

- Relationship Manager - Ongoing mentoring support and advice from SEAI expert advisor
- Support to ISO 50001: Energy Management Standard certification
  - Energy Action Plan development
  - Gap Analysis
- Training: Energy Management, Monitoring and Reporting, Energy Performance Indices.

# Supports for LIEN Members

- Special Working Groups – co-create solutions
  - Facilitated by SEAI industry experts
  - Members share experiences on specific themes energy efficient design, technologies, process improvements, utilities etc.
  - Develop best practice guidance
  - Outputs may be new tools/methodologies, operational control strategies, project demonstrations
  - Topics covered: Clean rooms, HVAC, Steam, Compressed air, Refrigeration, Future Fuels, Digital Energy Management
- Study tours, workshops, training and networking – sectoral approaches

# Contribution towards Alternative Measures

- Annual Bottom up survey of energy use
- EnPI based energy performance tracking.
  - Savings rate achieved by participant companies based on energy intensity and output together with reported details of energy efficiency improvement measures to date.
- Reporting of projects on annual basis
- Audit on reported project data
- 29%\* of energy savings are reported as Alternative Measures in annual reporting

\*29% based on a 2015 study which developed a Paasche index to project future programmatic savings.

# LIEN Savings and EEOS interaction

- Annual savings reported by LIEN members between **1,300** to **1,400** GWh
- ~**390** GWh / yr reported against **NECP**.
- Under EEOS, Obligated Parties are encouraged to work with LIEN members
- They provide financial assistance and / or technical support
- Through M&V they substantiate the wider LIEN savings.

Savings reported under Article 7:

Obligated Party supported projects reported against EEOS

Difference reported against Alternative Measures.

## LIEN - future

- Transition to using Public Sector M&R system for LIEN Reporting
- Expectation of LIEN reporting being a method for mandatory emissions reporting
- EnPI based energy performance tracking.
- Absolute energy related emissions reporting – reported publicly on a normalised basis.
- Improved project data collection
- Sampling of statistically significant percentage of LIEN members via data analysis, interview and survey to validate savings attributable to network and advisory support

# Thank you

Joe Durkan  
[joe.durkan@seai.ie](mailto:joe.durkan@seai.ie)  
+353 1 808 2148

