

Introduction to the Irish Energy Credit Management System

ENSMOV Workshop - IT tools for energy efficiency policies

21st July 2021



Rialtas na hÉireann
Government of Ireland

EEOS Overview



Energy Credits
Management
System

Under the Energy Efficiency Obligation Scheme (EEOS):

- Companies with final energy sales >600 GWh per year have mandatory energy saving targets
- The “obligated party” must be material to the savings
- The savings counted towards their targets must be measured and verified
- Obligated parties must establish quality assurance schemes to assure the works and savings

Obligated parties	
Bord Gais Energy	Bord na Mona
Calor Gas	Electric Ireland
Energia	Enprova
Flogas	Lissan Coal Company
PrePayPower	SSE Airtricity
Vayu (Naturgy)	

Period	Annual Target PEE (GWh)
2014-2016	550
2017	625
2018-2021	700

75% Non-residential	20% residential	5% Energy poverty
412.5	110	27.5
469	125	31
525	140	35

ECMS Background



Energy Credits
Management
System

The Energy Credit Management System

- Official register of Obligated Parties' progress to targets
- Records all transactions
- Repository for all SEAI energy efficiency programmes

ECMS Technical details



Energy Credits
Management
System

- Name: ECMS (Energy Credits Management System)
- Developed: 2014 (3 major version releases since)
- Backend: MS SQL Server
- Frontend: .Net
- Hosted: in Azure

Main Users



Energy Credits
Management
System

- SEAI
 - Administrator
 - User
 - Reader
- Obligated Parties
 - PES User (Primary Energy Supplier = OP)
 - Main Counter Party
 - Contract Counterparty (*only user that can upload measures for OPs*)

ECMS Functionality



Energy Credits
Management
System

Credit recording

- Uploads by Obligated Parties and SEAI programmes
- Transfers between Obligated Parties
- Transfers between sectors
- Calculation of buyouts and penalties

Energy Credits Management System

You are here: Home

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I want to...

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Admin

[Participating Energy Supplier](#)

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News

[News](#)

There are no news items available.

Energy Credits Management System

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Help

I want to...

Search Notifications

Manage Batch Submissions

Search MPRN History Register

Admin

Participating Energy Supplier

Main Counterparty

Contract Counterparty

Pre Approved Contract Counterparties

Notification Messages

Measures

Credit Capping Rules

Users

Integrity Testing

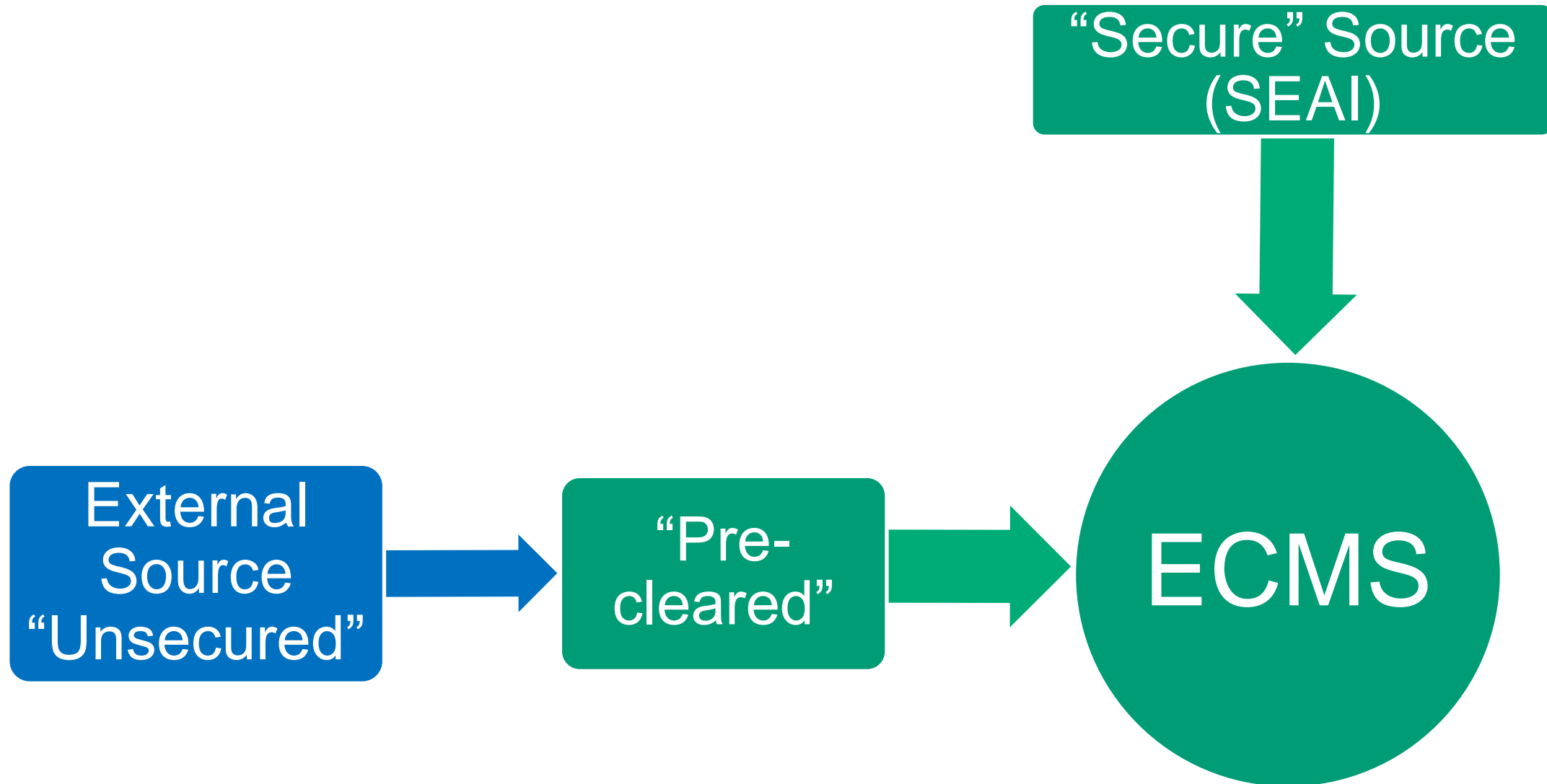
End of Year

News

News

There are no news items available.

ECMS Upload Process



ECMS Functionality



Energy Credits
Management
System

Data captured:

- Up to 35 unique pieces of data captured per record
 - Obligated Party, contractor and sub contractor,
 - Measure type, property type, sector, location and unique property / location identifier,
 - Size of credit, date of completion, accounting period.

Notification Details

Notification ID: 1013308

Last Modified By:

Batch ID: 52089

Last Modified Date:

Notification Details					
Transaction Type	Notification	Dwelling Type	House	Main Counterparty	[REDACTED] s Energy Services
Status	Valid	Sector	Residential	Contract Counterparty	[REDACTED] s Energy Services
Date Created	16/07/2021	MPRN	10302[REDACTED]	Contractor	Si [REDACTED] ben
Date Work Completed	17/05/2021	Cust Ref	V2N9/076275	User Name	
Reporting Period	2021	Project ID	HM-RGI	Address Line 1	CH [REDACTED] OWN
Journal Narrative		Project Name	N/A	Address Line 2	
Programme Type	Non Grant Residential	Energy Credits (kWh)	1,850	Address Line 3	DUNDERRY
Measure Item	HC_FULL_REMOTE - House	Participating Energy Supplier	[REDACTED]	Address Line 4	NAVAN CO MEATH
Is Public Sector?	No	Source	Web Service	County	Co. Meath
Selected For Inspection	No	Inspect By Date	30/08/2021	Eircode	[REDACTED]
EEOS Programme	2030	Duplicate Claim Window	14/01/2022		

Edit

Go Back

Select for Inspection

Cancel Notification

Duplicate

Audit Trail

ECMS Functionality

- Automatic (from SEAI programmes over API)
- Batch upload by OPs
- Manual upload.

The screenshot displays the Energy Credits Management System (ECMS) interface. At the top right, there is a logo for 'BETTER ENERGY The National Upgrade Programme' and the text 'Energy Credits Management System'. Below this, a navigation bar contains links for 'Home', 'Energy Credits Register', 'MPRN History Register', and 'Admin'. The main content area is titled 'Works Notification' and includes a breadcrumb trail: 'You are here: Home / Energy Credits Register / Works Notification'. The 'Notification Common Details' section contains several dropdown menus: 'Contract Counterparty' (SEAI), 'PES' (SEAI), 'Programme Type' (Non Grant Residential), 'Main Counterparty' (SEAI), and 'Sector' (Residential). Below this is a table titled 'Notifications' with columns for 'Completed Date', 'Measure', 'MPRN', 'Cust Ref', 'Project ID', 'Public Sector', 'Dwelling Type', 'Contractor', 'Energy Credits (kWh)', 'Eircode', 'Edit', and 'Delete'. The first row of the table shows a date of '19/07/2021', a measure selection dropdown, and various other fields, with 'Edit' and 'Delete' buttons.

BETTER ENERGY The National Upgrade Programme | Energy Credits Management System

Logged in as: J [Avatar] [Logout](#)

seai SUSTAINABLE ENERGY AUTHORITY OF IRELAND | **BETTER ENERGY** The National Upgrade Programme | Energy Credits Management System

Home Energy Credits Register MPRN History Register Admin

Works Notification

You are here: [Home](#) / [Energy Credits Register](#) / [Works Notification](#)

Notification Common Details

Contract Counterparty: SEAI

PES: SEAI

Programme Type: Non Grant Residential

Main Counterparty: SEAI

Sector: Residential

Notifications

Completed Date	Measure	MPRN	Cust Ref	Project ID	Public Sector	Dwelling Type	Contractor	Energy Credits (kWh)	Eircode	Edit	Delete
19/07/2021	Please select a measure.				<input type="radio"/> No	Plec				Ok	Cancel

ECMS Functionality



Energy Credits
Management
System

Credit validation

- Checks existence and type of property (MPRN / Eircode)
- Checks for duplication / double counting of measures
- Applies credit caps for related measure types (e.g. wall insulation)
- Allows for measures, or batches of measures to be selected for further /audit /

Electricity Meter
Number

Unique location
code

ECMS Functionality



Energy Credits
Management
System

Reporting

- Achievements by OP, by Sector, by Programme
- Repairs reporting
- Annual reports
- Penalty / Buyouts

Search Notifications

You are here: [Home](#) / [Energy Credits Register](#) / [Search Notifications](#)

Refine Search

Participating Energy Supplier:

None selected ▾

Main Counterparty:

None selected ▾

Contract Counterparty:

None selected ▾

Transaction Type:

None selected ▾

Notification Status:

None selected ▲

Period:

None selected ▲

Credit Capping Applied:

All ▾

EEOS Programme:

All ▾

Programme Type:

None selected ▾

Measure:

None selected ▾

Project ID:**MPRN:****Public Sector:**

All ▾

Source:

None selected ▲

Date Created From:**Date Created To:****Date Completed From:****Date Completed To:****Notification ID:****Sector:**

All ▾

Cust. Ref.:**Measure Category:**

All ▾

User Name:

All ▾

County:

None selected ▲

Eircode:**Selected For Inspection:**

All ▾

Search

Export Dashboard

1392 record(s) found. Showing 1 - 10

ID	Type	Date Created	Date Work Completed	Period	EEOS Prgm.	PES	Sector	Status	MPRN	Project ID	Measure	Energy Credit Assigned (kWh)	County
1011071	Notification	07/07/2021	14/01/2021	2021	2030	Energy	Res.	Valid	1000514		BOILER GAS FULL HC	4,795	Dublin
1011072	Notification	07/07/2021	12/01/2021	2021	2030	Energy	Res.	Valid	1001914		BOILER GAS FULL HC	3,035	Dublin
1011073	Notification	07/07/2021	07/01/2021	2021	2030	Energy	Res.	Valid	100012		BOILER GAS FULL HC	4,795	Dublin
1011074	Notification	07/07/2021	05/01/2021	2021	2030	Energy	Res.	Valid	10016		BOILER GAS FULL HC	4,795	Co. Meath
1011075	Notification	07/07/2021	07/01/2021	2021	2030	Energy	Res.	Valid	10013		BOILER GAS FULL HC	4,795	Co. Wicklow
1011077	Notification	07/07/2021	07/07/2021	2021	2030	SEAI	Res.	Valid	1001612	BEH	WALL EXT	5,370	Co. Offaly
1011080	Notification	07/07/2021	07/07/2021	2021	2030	SEAI	Res.	Valid	10002	BEH	WALL EXT	5,370	Dublin

Export to CSV

« < 1 2 3 4 5 6 7 8 9 10 > »

Notification Details

Transaction Type	Notification	Dwelling Type	House	Main Counterparty	SEAI
Status	Valid	Sector	Residential	Contract Counterparty	SEAI [REDACTED] CC
Date Created	07/07/2021	MPRN	1000514 [REDACTED]	Contractor	J Dun [REDACTED]
Date Work Completed	14/01/2021	Cust Ref	C. [REDACTED]	User Name	
Reporting Period	2021	Project ID		Address Line 1	86, WA [REDACTED] DUBLIN
Journal Narrative		Project Name		Address Line 2	KILLINEY
Programme Type	Non Grant Residential	Energy Credits (kWh)	4,795	Address Line 3	
Measure Item	BOILER_GAS_FULL_HC - House	Participating Energy Supplier	E [REDACTED]	Address Line 4	
Is Public Sector?	No	Source	Web Service	County	Dublin
Selected For Inspection	No	Inspect By Date	<u>21/08/2021</u>	Eircode	<u> </u> ✕
EEOS Programme	2030	Duplicate Claim Window	05/01/2022		

[Edit](#)
[Go Back](#)
[Select for Inspection](#)
[Cancel Notification](#)
[Duplicate](#)
[Audit Trail](#)

Measure Details

Measure Name	High Efficiency Gas Boiler with Fully integrated Heating Controls Upgrade	Measure Category	Heat	Measure Sub-Category	Boiler
Variant	High efficiency boiler	Variant Type	Gas	Controls	Fully integrated
Remote Access		Domestic	<input checked="" type="checkbox"/>		

Thank you

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