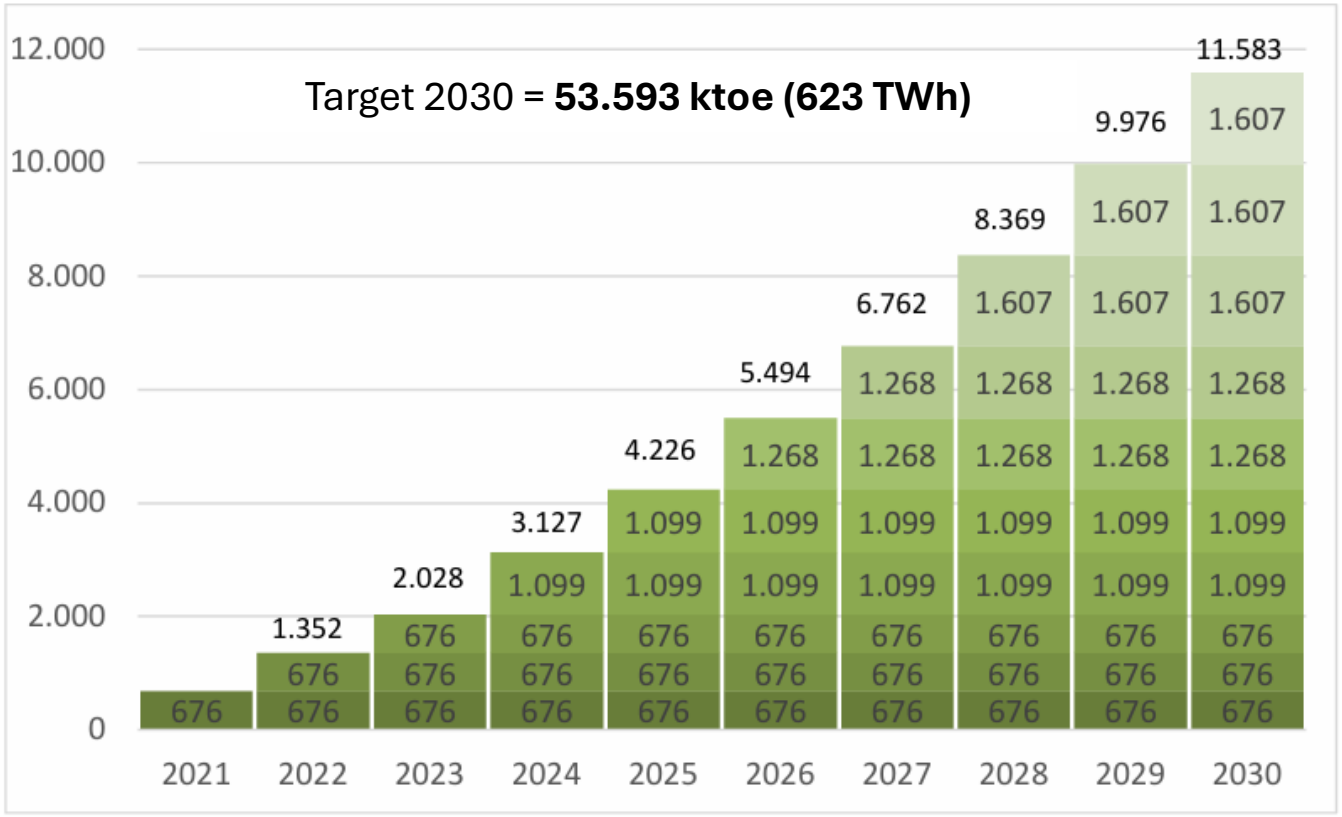


CAE System

Linking energy-saving potential & savings monetization

1. Energy Savings Obligation

Art. 8 Energy Efficiency Directive (UE) 2023/1791



EEOS (art. 9 EED)

+

Alternative measures (art. 10 EED)

Spain´s NECP National Energy and Climate Plan 2023-2030 (rev 2024)

2. Spanish Energy Efficiency Obligation Scheme (SEEOS)

SEEOS

CAE System
(white certificates system)

National Energy Efficiency Fund (NEEF)

Support programmes
(Grants and repayable loans)

Energy savings auctions

NEEF



Contribution to NEEF



Support Programms



Energy saving measures

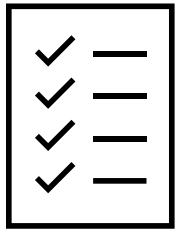
Obligated parties

Delegated parties

CAE System



Energy saving measures



Savings Verification



White certificate

Certificado de Ahorro Energético (CAE)

1 CAE
=
1 kWh/year

Obligated parties → **Energy sector companies**

Electricity and natural gas suppliers
Wholesale operators of petroleum products

Delegated parties → **Agents accredited by the Administration**

Energy Service Companies (ESCOs)
Energy engineering & consulting firms
Installers & maintenance companies
Service & infrastructure companies (facilities management, construction)

Energy Savings Verifier → **Third-party independent entity accredited by ENAC**

ENAC = National Accreditation Body

RDE-33 = Specific accreditation & verification protocol

3. CAE System: Delegated Parties

Aggregators of energy savings and enablers of energy efficiency actions

- **Aggregate energy savings** from multiple actions and beneficiaries → viability & scalability of projects.
- **Promote energy efficiency actions** by acting as market facilitators → opportunity identification, financing, outreach, technical & administrative support.
- **Act as a bridge** between savings owners, Verifiers, and Obligated Parties.

4. CAE System: Market Mechanism + Monetization

The CAE System transforms energy savings into a marketable asset with tangible economic value.

- **Market mechanism:** verified energy savings are converted into **tradable Energy Savings Certificates (CAE)**
- **Monetization of savings:** beyond reducing energy bills, **CAE generate additional revenue through its sale**, improving the business case for energy efficiency investments

5. CAE System & Energy Audits

Energy audits are reliable gateways to the CAE System & without audits the CAE System loses its capacity for growth

- Identify viable energy-saving measures
- Quantify potential savings
- Prioritize investments based on return on investment and cost
- Reduce risks for investors and finance providers

CAE System as new incentive to implement identified measures

- Traditionally, many audit recommendations went unimplemented due to a lack of sufficient financial return (e.g. > 5 years)
- Revenue generated from the sale of CAE improves projects return
- CAE System helps turn audit recommendations into real investments

5. CAE System & Energy Audits in Spanish Regulation

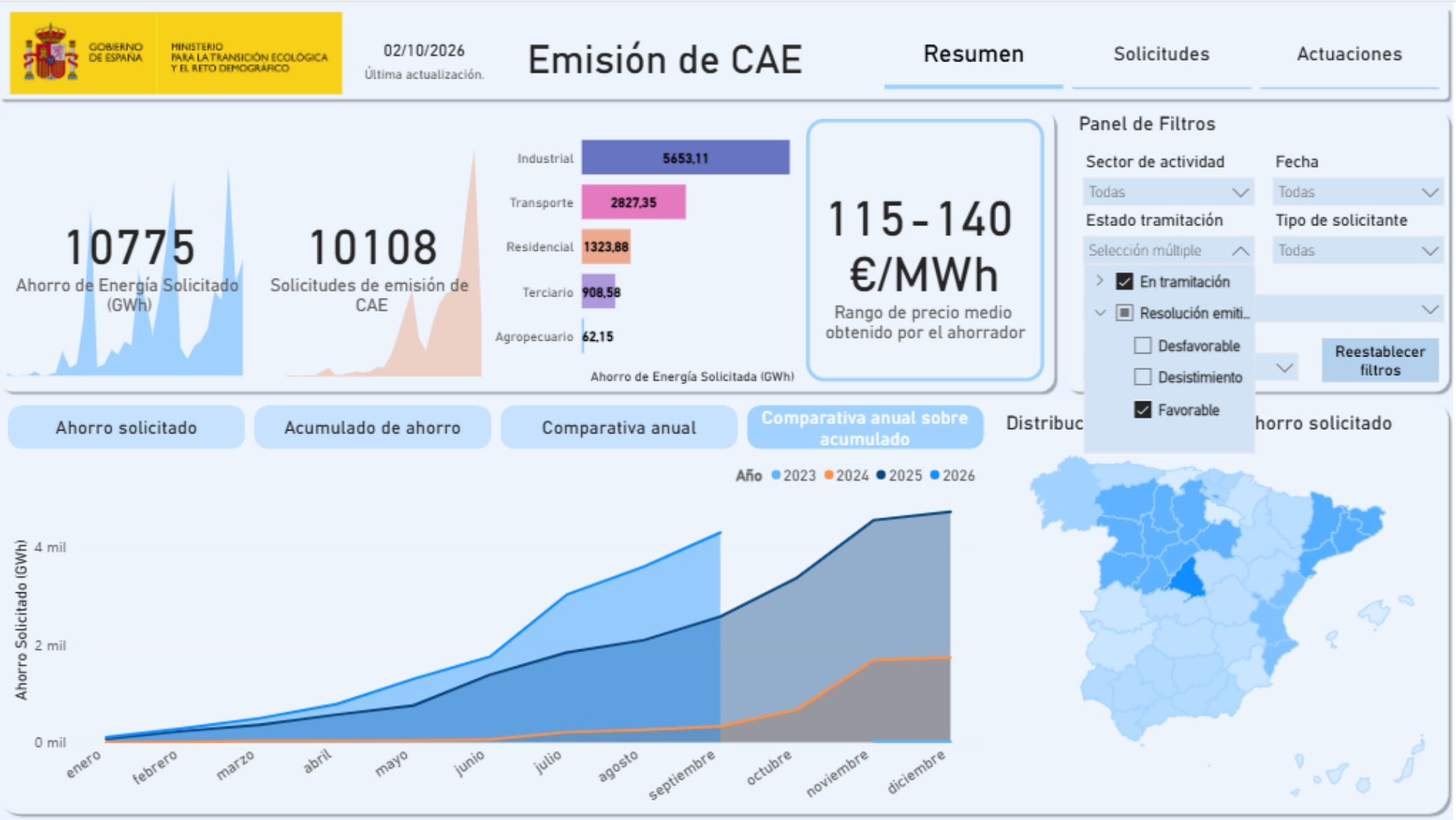
- Orden TED/635/2026, de 23 de junio, por la que se regula el concepto de empresa de gran consumo de energía del sector industrial a los efectos de la contabilización de ahorros de energía final

- Real Decreto 1106/2020, de 15 de diciembre, por el que se regula el Estatuto de los consumidores electrointensivos.

6. CAE System Overview

- **Unit of measurement:** 1 kWh/year = 1 CAE (electronic document)
- **Price:** Defined by market: €/CAE < Financial equivalence EENF
- **Eligible measures:** Most of energy saving measures, provided that they fulfill EED
  - *Standardized:* *Catalogue of standardized measures*
  - *Singular:* *Saving Calculation methodology (IPMVP)*
- **Certification process:**
  - *Verification:* *third-party entity accredited by ENAC*
  - *Issuing:* *Autonomous Regions, at request of obligated or delegated party*
  - *Purchase/Sale:* *Obligated and delegated party*
  - *CAE National Authority:* *MITERD – DG Energy Planning and Coordination*

7. CAE System: current situation



Link:
[Seguimiento del Sistema de CAE]

8 CAE System Regulation

Regulation about the system:

- **Royal Decree 36/2023:** creation of CAE system
- **Ministerial Order TED/815/2023:** develops the RD
- **Ministerial Order TED/845/2023:** Catalogue of standardized measures
- **RDE 33 (ENAC):** Accreditation scheme for verifiers
- **Resolutions of 20 October 2023 of DGPEM and DGPLACE:** Updates catalogue
- Resolution of DGPLACE specifying how to measure savings of singular measures

= adopted and in force



Thank you for your attention

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