



Ministerio de
Energía

Gobierno de Chile

Energy Efficiency

Labeling and MEPS in Chile

Feb 11th, 2021

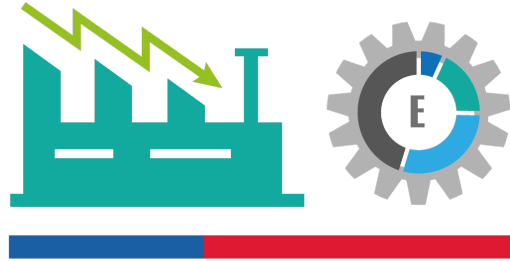


Energy Efficiency Law

Approved by Chilean Congress in December 2020, to be published



Institutionalize energy efficiency



Energy management from large consumers



Energy labeling for buildings



Efficiency Standards for vehicles

Other topics included

- Energy management in public sector.
- Interoperability of electric vehicles.
- Accelerated depreciation for electric vehicles.
- Regulation for Hydrogen.



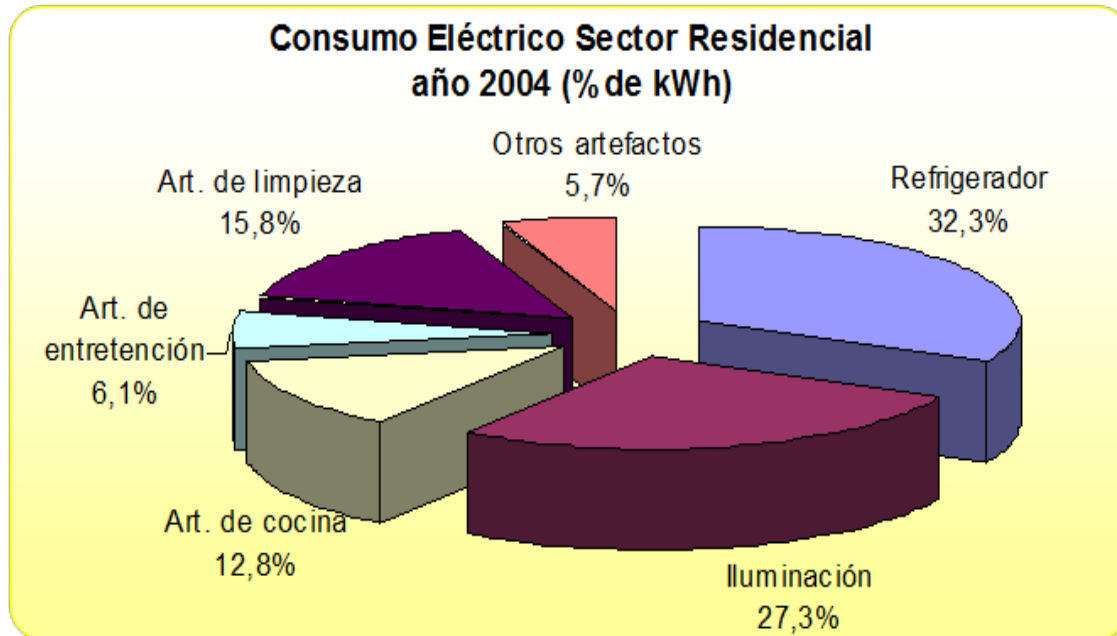
Regulatory framework

- **Law 20.402 (2009)**, that creates the **Chilean Ministry of Energy** and modifies Law Decree 2.224, establish in its Art. 4°:
 - h) **establish**, through resolution, the products that must fulfill **minimum energy performance standards**.
 - i) **establish**, through resolution, the products that must have an **energy consumption label** to be marketed with an approved certification.
- **Supreme Decree 97 (2011)**, approves **regulation** that establish the procedure to set **minimum energy performance standards**.
- **Supreme Decree 64 (2013)**, approves **regulation** that establish the procedure to define technical specifics for **energy consumption labels**.



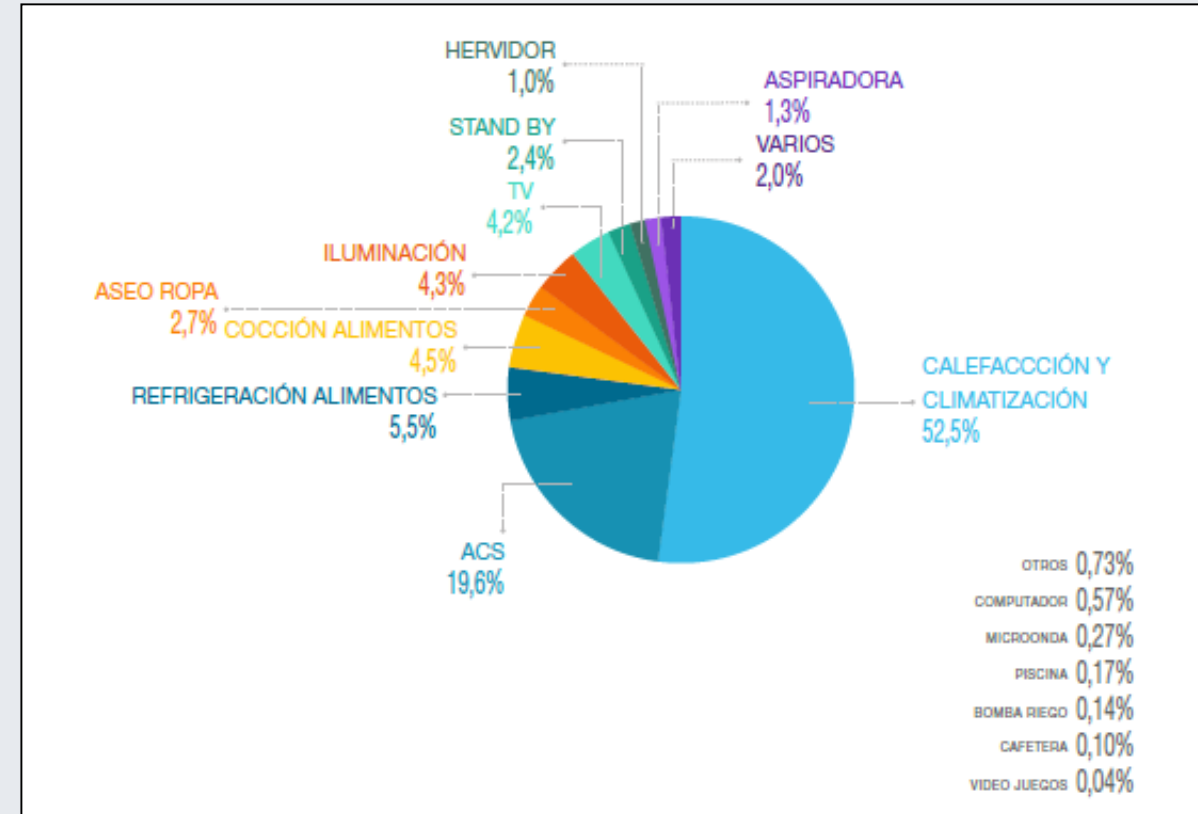
Residential consumption distribution

Where to focus in?



**Electric residential consumption by 2004:
60% lightning + refrigeration**

Energy residential consumption in 2018



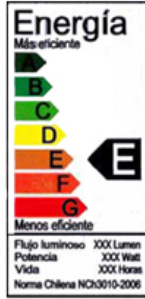
80% of total residential consumption (including all energetics) is labelled (28 appliances).

46% of electric consumption (around 10% of total consumption) has MEPS (4 appliances).

SEAD priorities

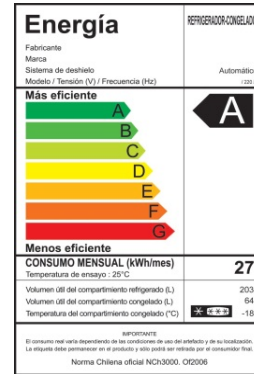


Tipo A

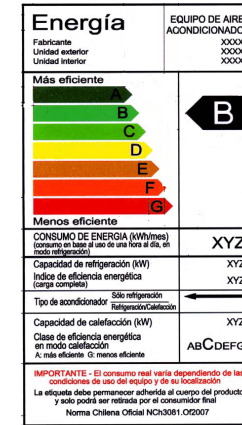


Tipo B

Label: 2007
MEPS:2013 and
updated in 2020



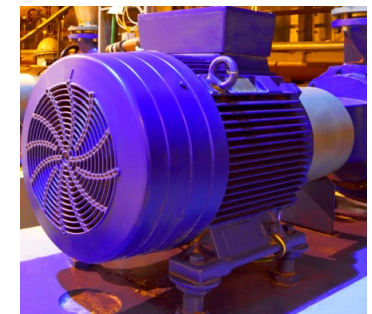
Label: 2007
MEPS:2014
Update in process



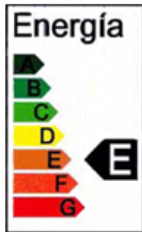
Label: 2011
MEPS:2019



Label: 2011
MEPS:2018



SEAD priorities – residential lighting



Tipo A



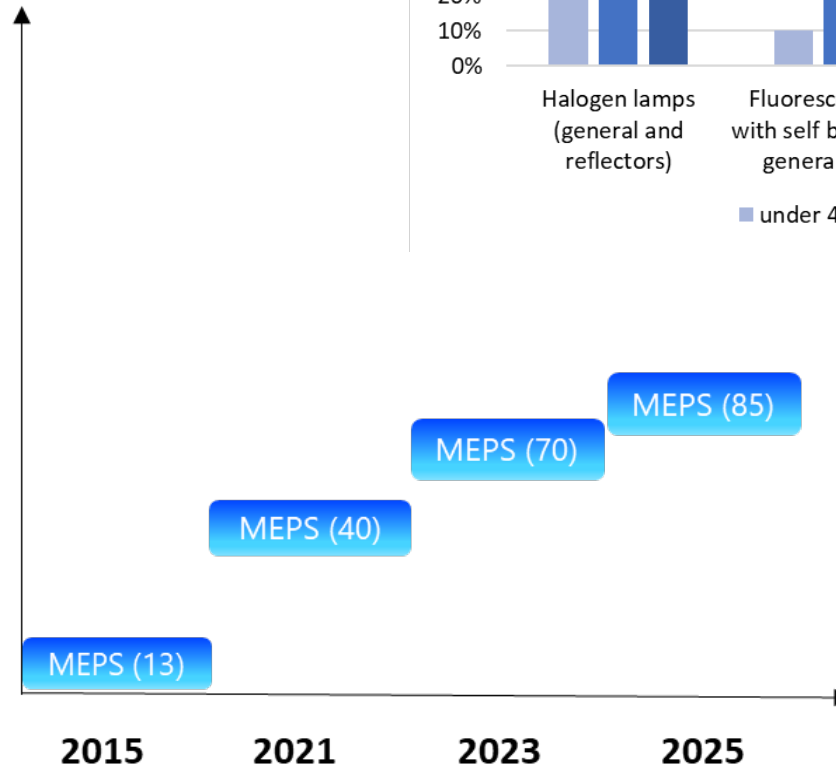
Tipo B

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MEPS:2013 and
updated in 2020

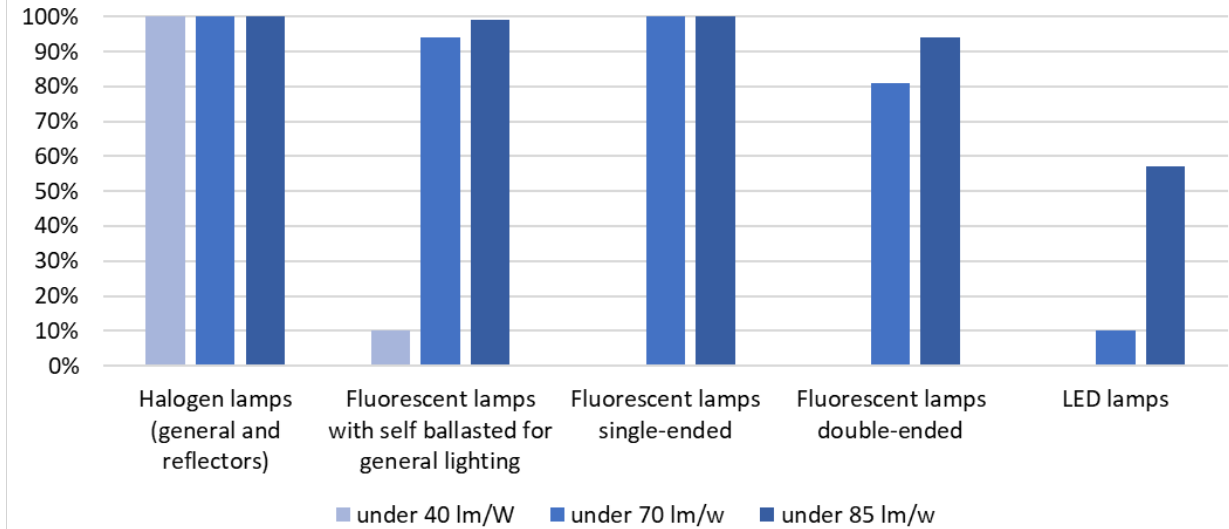


Efficacy (lm/W)

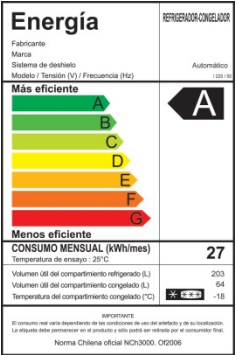
200 lm/W (LED)
150 lm/W (LED)
125 lm/W (LED)
90 lm/W (LED)
65 lm/W (CFL/LED)
15 lm/W (Halogen)
12 lm/W (Incandescent)



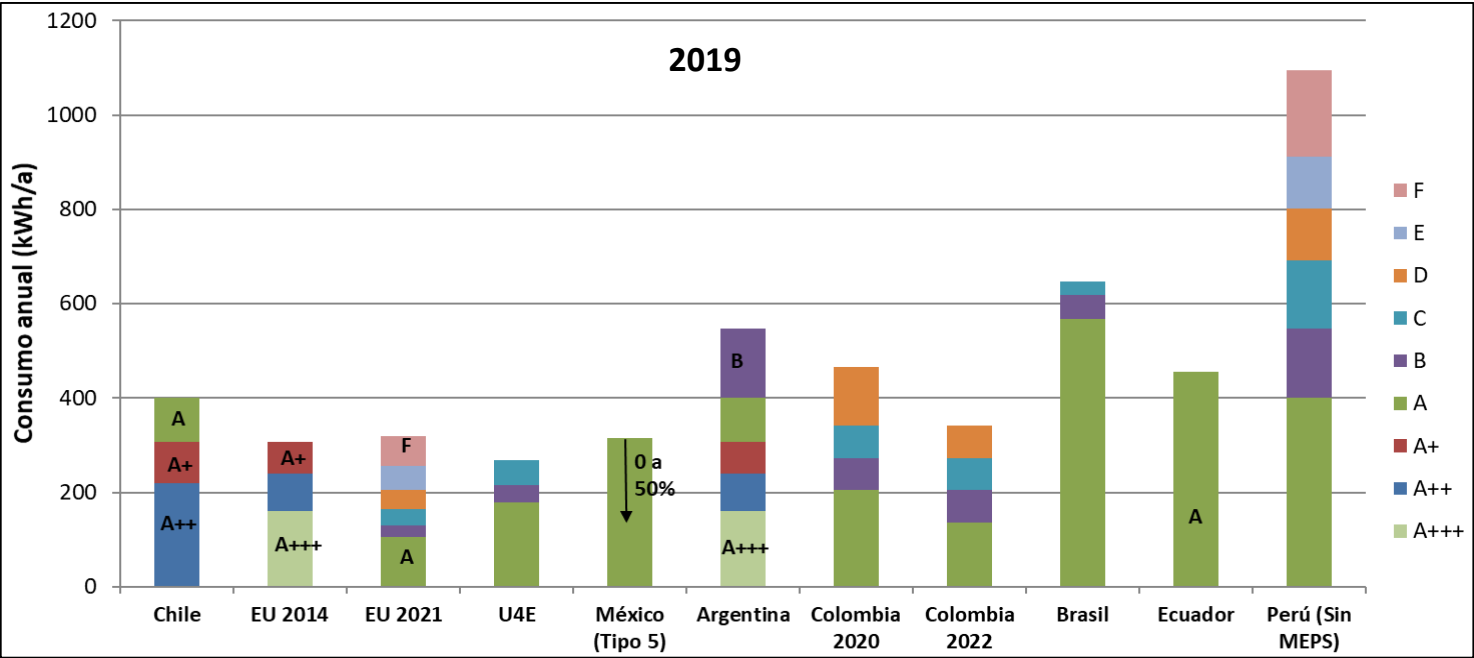
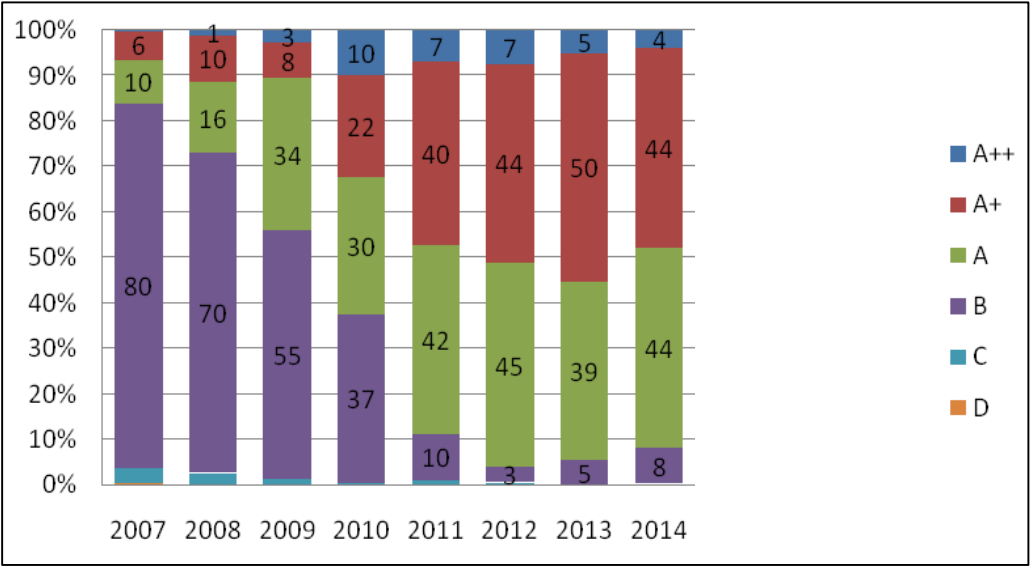
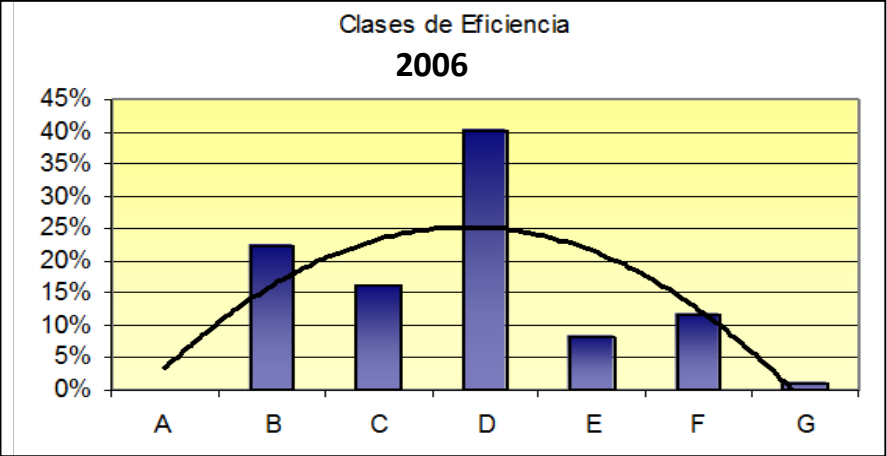
Percentage of models under efficiency standard



SEAD priorities - refrigerators



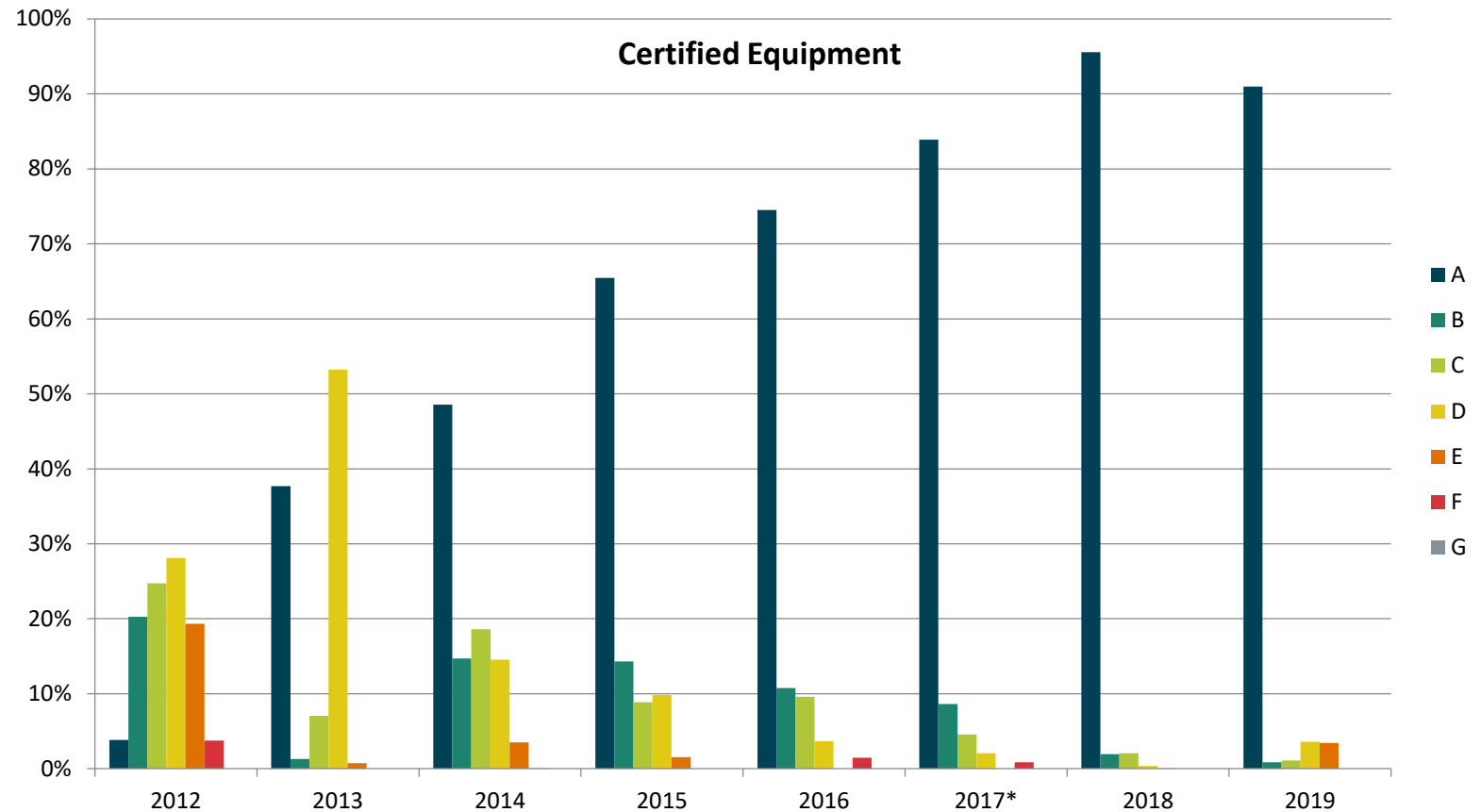
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Update in
process



SEAD priorities – air conditioning

Energía		EQUIPO DE AIRE AGONDISIONADO
Fabricante		XXXX
Unidad exterior		XXXX
Unidad interior		XXXX
Más eficiente Menos eficiente		B
CONSUMO DE ENERGÍA (kWh/mes)		XYZ
Capacidad de refrigeración (kW)		XYZ
Índice de eficiencia energética (carga completa)		XYZ
Tipo de acondicionador	Solo refrigeración / Refrigeración/Calefacción	
Capacidad de calefacción (kW)		XYZ
Clase de eficiencia energética en modo calefacción		ABCEFG
<small> IMPORTANTE - El consumo real varía dependiendo de las condiciones de uso del equipo y de su localización. La etiqueta debe permanecer adherida al cuerpo del producto y solo podrá ser retirada por el consumidor final. Norma Chilena Oficial NCH3081.012007 </small>		

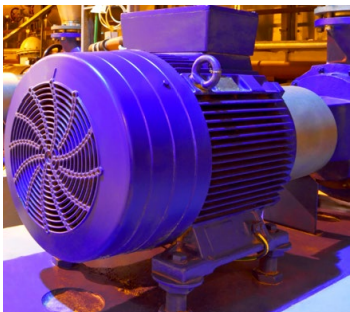
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MEPS:2019



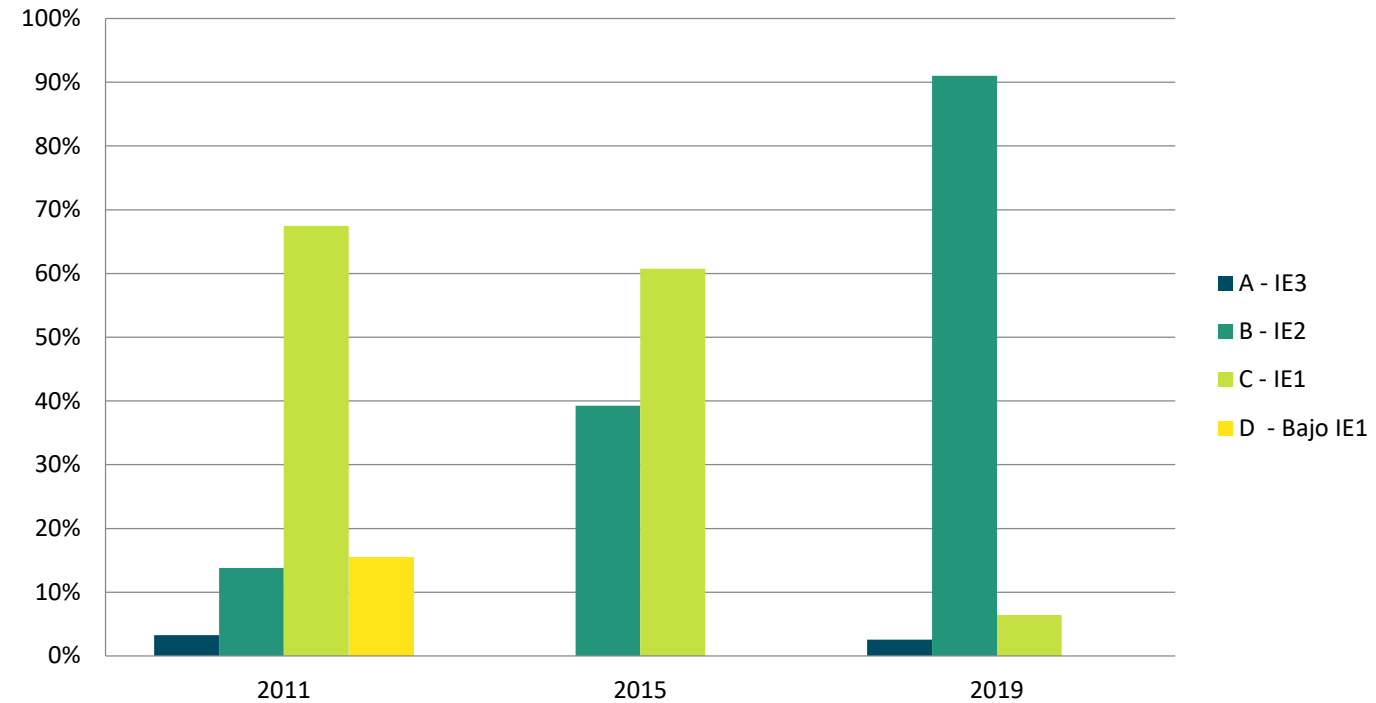
SEAD priorities – motors up to 10 HP



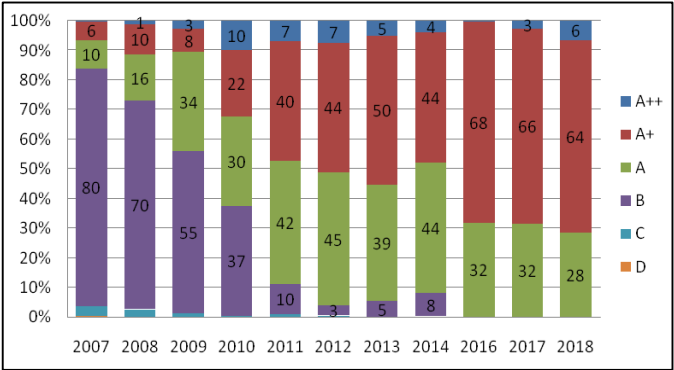
Label: 2011.
MEPS:2018



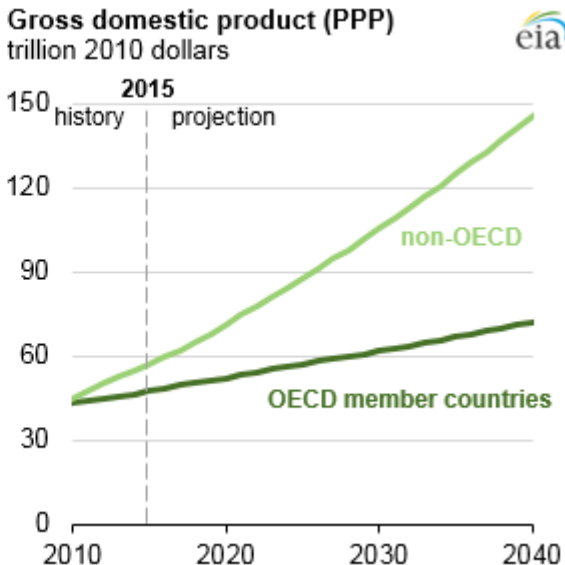
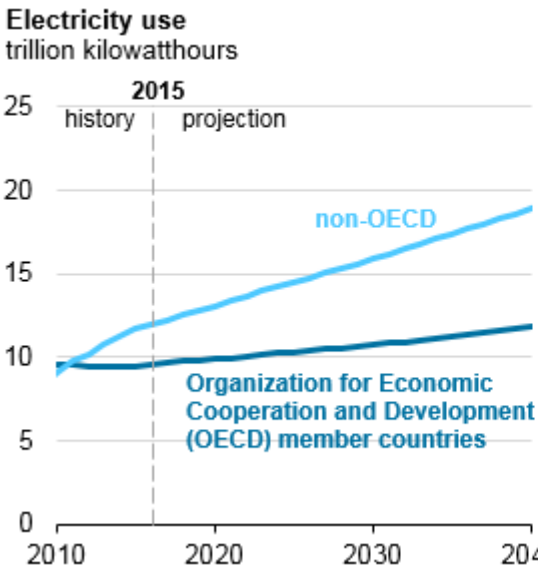
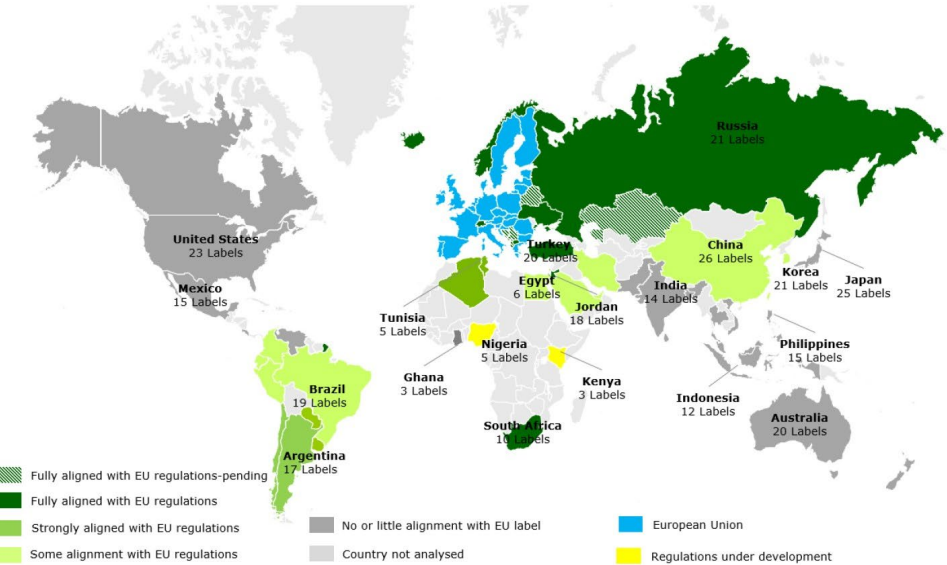
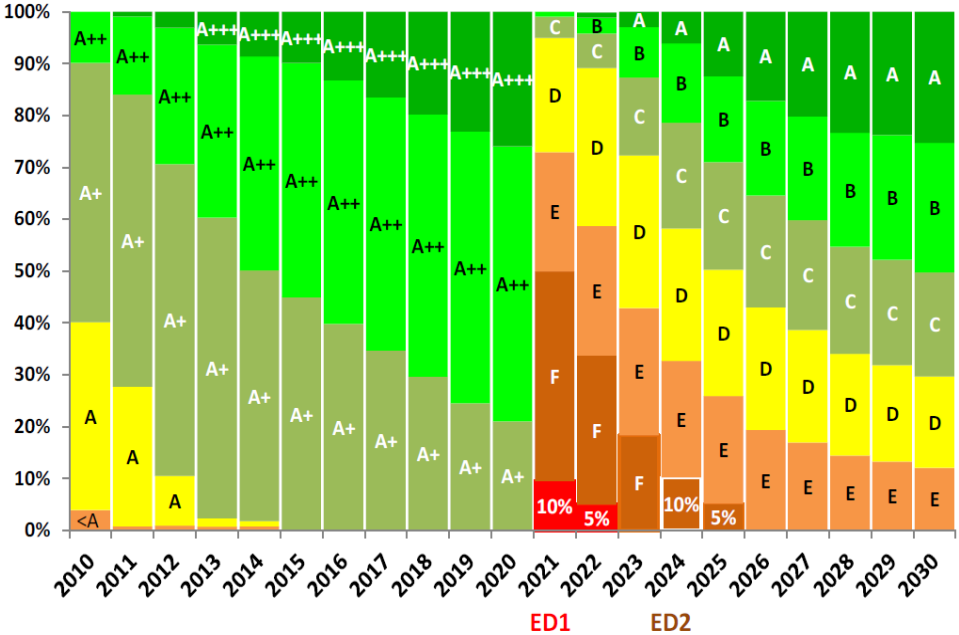
Certified models



Findings and challenges



it works!



Thank you

Francisco Martínez-Conde
Sustainable Energy Division



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