



URUGUAY

NATIONAL ENERGY EFFICIENCY

PLAN

Energy savings goal and instruments

MRV in place and challenges

Eng. Antonella Tambasco & Eng. Adriana Torchelo

Energy Efficiency Unit

Secretary of Energy

Ministry of Industry, Energy and Mining

CONTENT

- ✓ Brief Overview – Uruguay and EE Policies
- ✓ National Energy Efficiency Plan
 - ✓ Energy Savings Goal
 - ✓ Energy Savings Instruments (MRV)
 - ✓ Energy Efficiency Certificates & Labelling System
- ✓ Future Challenges



OVERVIEW OF URUGUAY

Uruguay:
Un País con energía
sostenible para todos



Country name: República Oriental del Uruguay

Capital city: Montevideo

Political division: 19 Provinces

Land area: 176.215 sq.km

Population: 3.3 million inhabitants

Density: 18.6 inhabitants/km²

Life expectancy: 76 years

Gross Domestic Product: 16,669 US\$ per capita

Electrification rate: 99,7 %

Energetic matrix (2015):
56.5% of primary matrix
renewable,
92.8% of electricity from
renewable sources

STRATEGIC GUIDELINES

INSTITUCIONAL

- Directive role of the state.

ENERGY SUPPLY

- Diversification of sources and supplies, increasing non-conventional renewable energy sources.

ENERGY DEMAND

- Promotion of energy efficiency

SOCIAL

- Universal energy access in proper and accessible conditions.

LEGAL FRAMEWORK

Energy Efficiency Law N° 18.597 - Sept. 2009

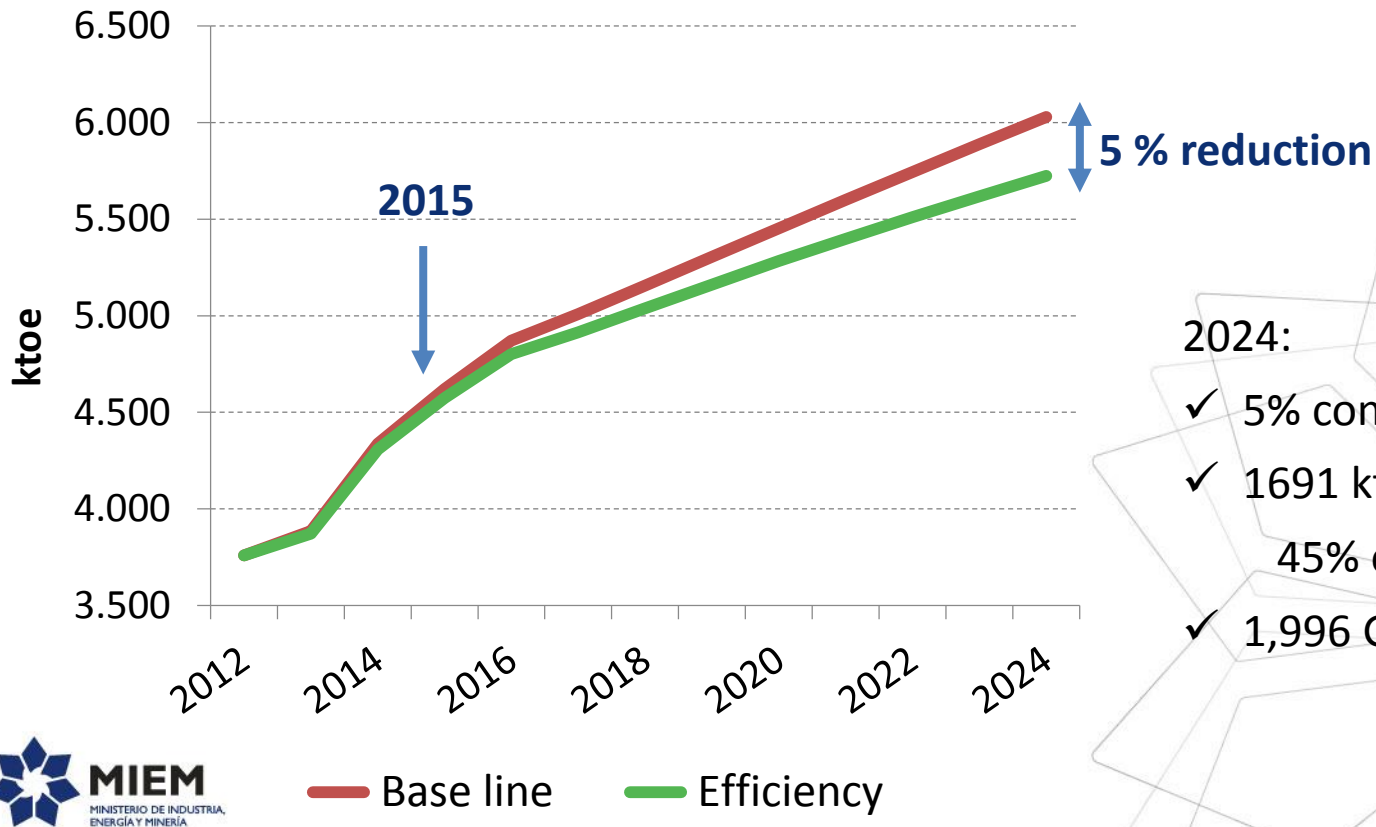
- ✓ Creates financial mechanisms to improve energy efficiency and implement policies.
- ✓ National energy savings goal.
- ✓ Energy Efficiency National Plan 2015 – 2024:
 - Broad policy actions.
 - Policy actions by sector.



ENERGY EFFICIENCY

ENERGY SAVINGS GOAL

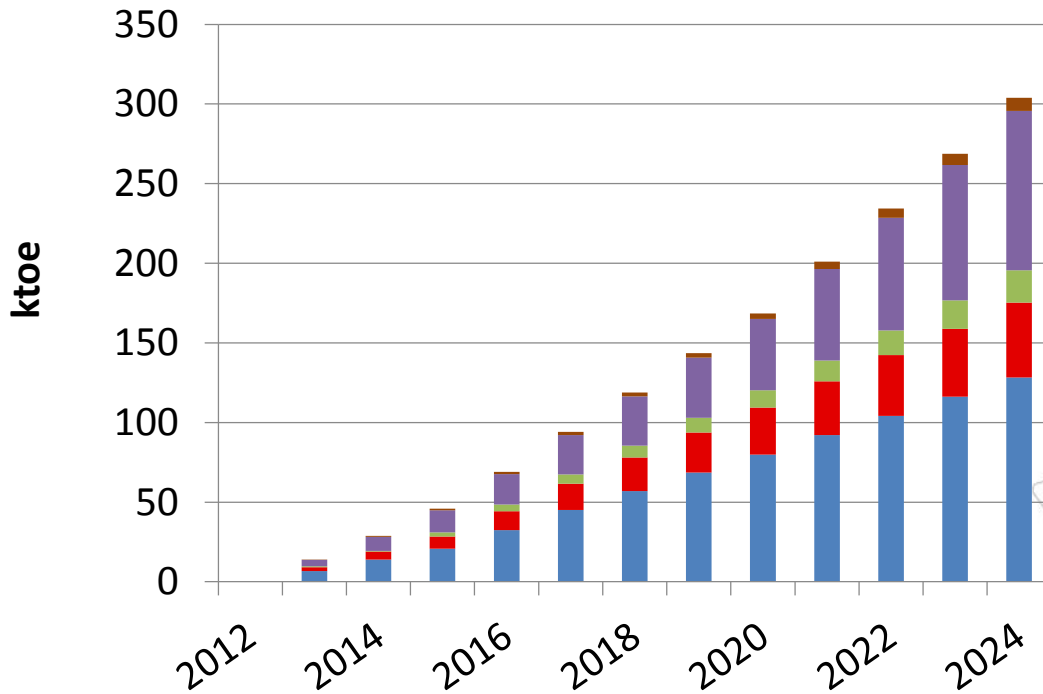
Energy demand scenarios (2012 – 2024)



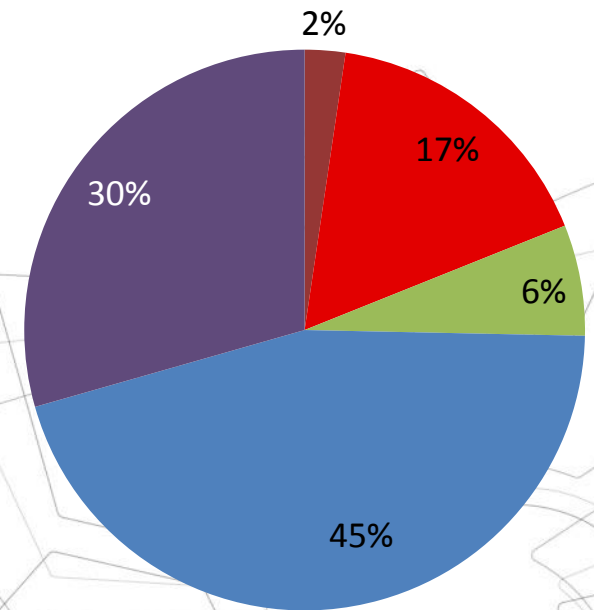
ENERGY EFFICIENCY

ENERGY SAVINGS GOAL BY SECTOR (ktoe)

Energy savings by sector (2012 – 2024)



Cumulative energy savings 2012 - 2024 (ktoe)

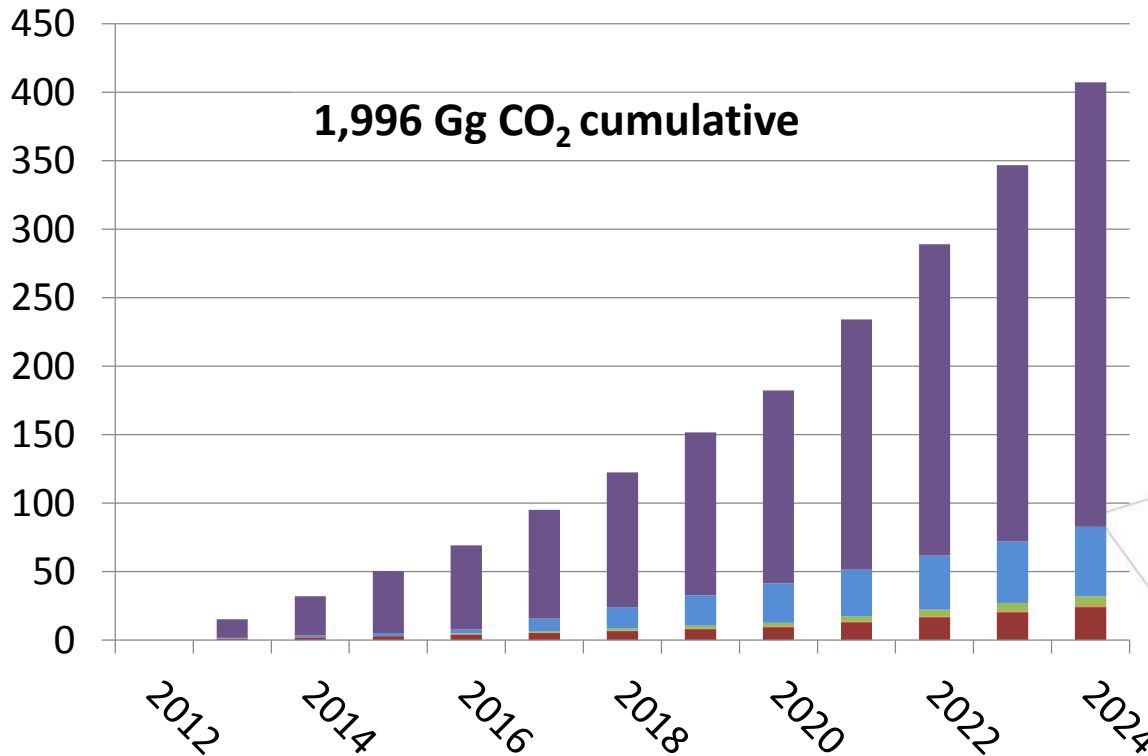


■ Primary activities ■ Transport ■ Industry ■ Commercial and Services ■ Residential

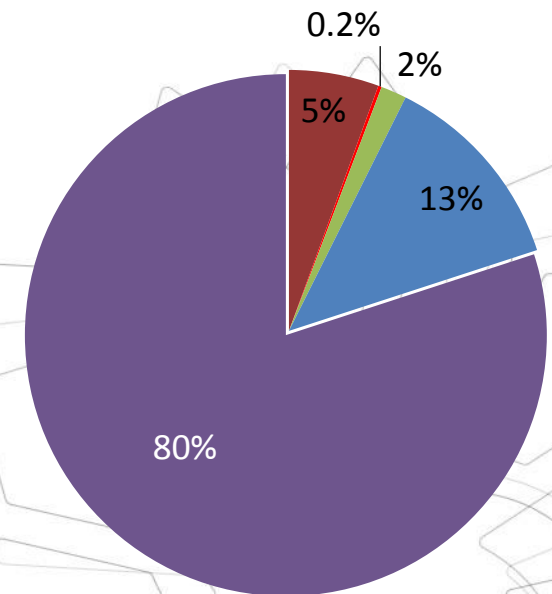
ENERGY EFFICIENCY

ENERGY SAVINGS GOAL BY SECTOR (Gg CO2)

CO₂ emissions reductions by sector (2012 – 2024)

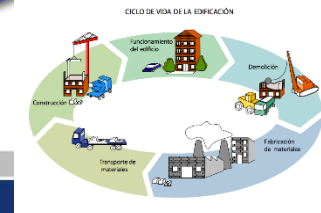


Cumulative CO₂ emission reductions 2012 - 2024 (GgCO₂)



ENERGY EFFICIENCY

ENERGY SAVINGS INSTRUMENTS



ENERGY EFFICIENCY CERTIFICATES

✓ Objective

To award successful energy efficiency projects that contribute to the achievement of the country's energy saving goal

✓ Eligibility

- ✓ Applicable to all sectors and energy sources
- ✓ Project economically profitable
- ✓ Projects with at least 1 years of operation

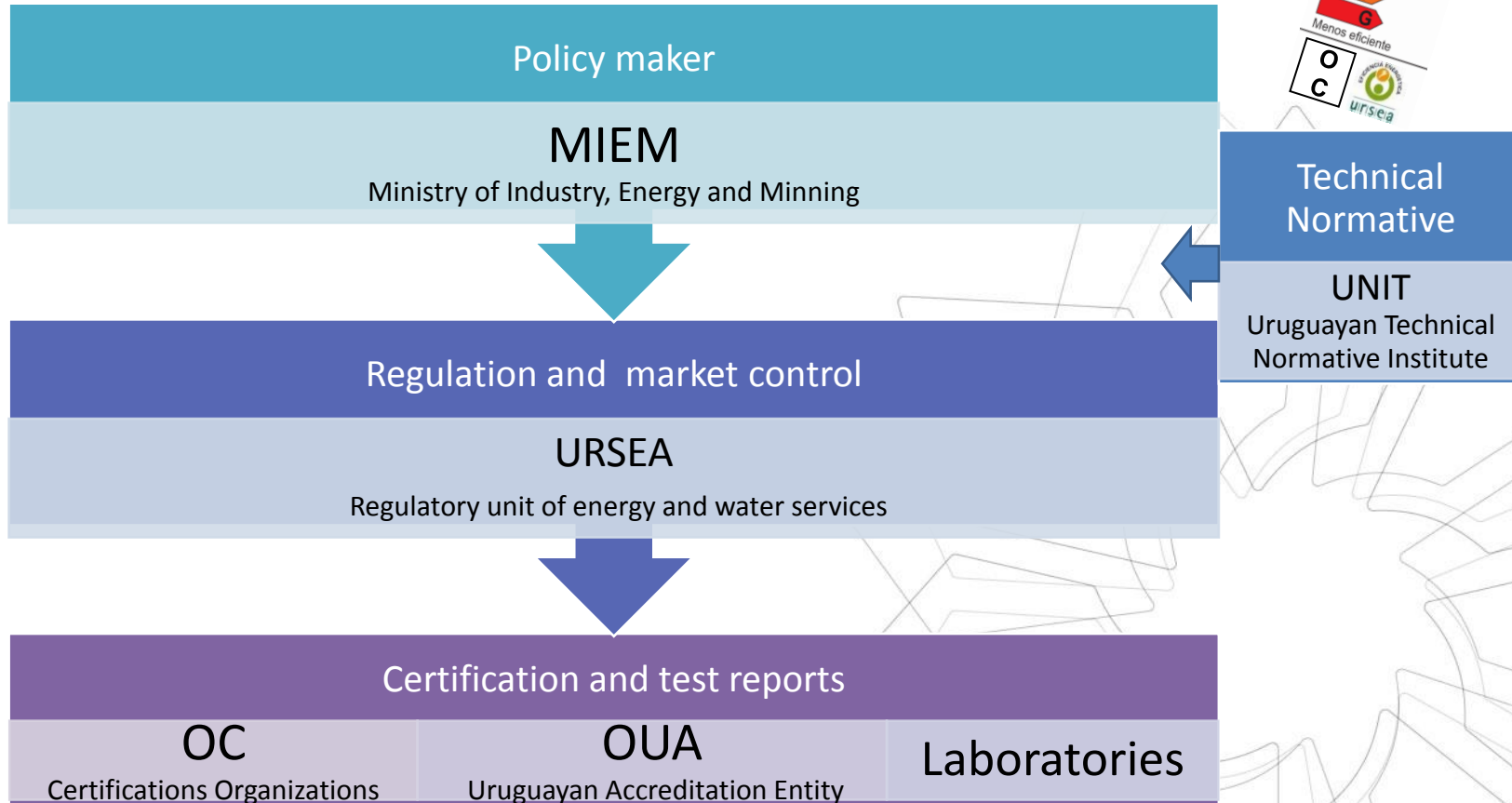
✓ Measurement & Verification:

- **IPMVP** application: 1st edition volunteer, following **mandatory**
- Energy savings certified by an IPMVP certified profesional (**CMVP**)
- **Standardized forms** (Excel) to report energy savings ([EEC form](#))
- **MIEM verification:** CMVPs from the MIEM verify info presented by the Project developers



EE LABELING SCHEME

- ✓ **Regulation N° 429/009** – Define general characteristics of the National Energy Efficiency Labelling System
- ✓ Interinstitutional arrangements



EE LABELING SCHEME

✓ Mandatory labeling



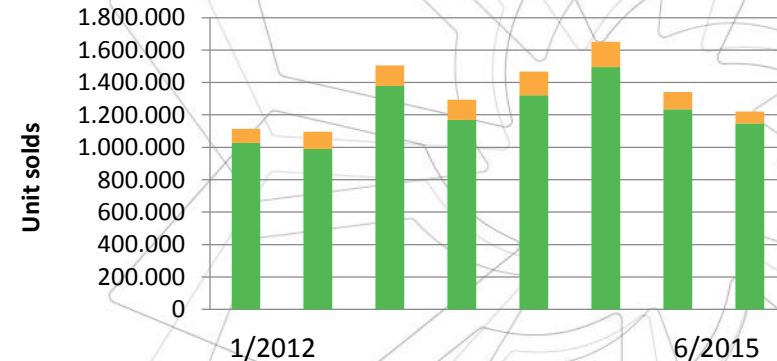
Product	Mandatory since	Avoided energy 2013-2014 (ktoe)	CO2 emissions reductions 2013-2014(toe)
Compacts fluorescent lamps	2011	14,6	205
Electric water heater	2011	2,1	29
Refrigerators and frezeers	2013	2,4	33
Air conditioners	2016	-	-

✓ Monitoring:

- Semiannual market sales – Request information retailers and importers

✓ Energy savings:

- ✓ BAU establish in the technical normative



CHALLENGES

✓ **Measurement**

- ✓ Guarantee reliable and accurate data
- ✓ Interinstitutional arrangements
- ✓ Improve data on specific consumption for residential and transport sectors

✓ **Reporting and Verification**

- ✓ Evaluate results of EEC 1st edition to improve EE Certification Scheme
- ✓ Evaluate implementation of standardized energy savings methodologies
- ✓ Implement an efficient system to periodically update the EE target monitoring
- ✓ Continue developing EE indicators

THANK YOU

Eng. Antonella Tambasco

antoella.tambasco@dne.miem.gub.uy

Energy Efficiency Unit

DNE - MIEM

Eng. Adriana Torchelo

adriana.torchelo@dne.miem.gub.uy

Energy Efficiency Unit

DNE - MIEM

www.dne.gub.uy

www.eficienciaenergetica.gub.uy