



2015



# UNFCCC SBI 45 MULTILATERAL ASSESSMENT

# BELGIUM

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Marrakech, 12 November 2016



## Geography

- north-western Europe
- 30 528 km<sup>2</sup>

## Population

- 11,2 million inhab. (2015)
- 367 inhab./km<sup>2</sup> (2015)

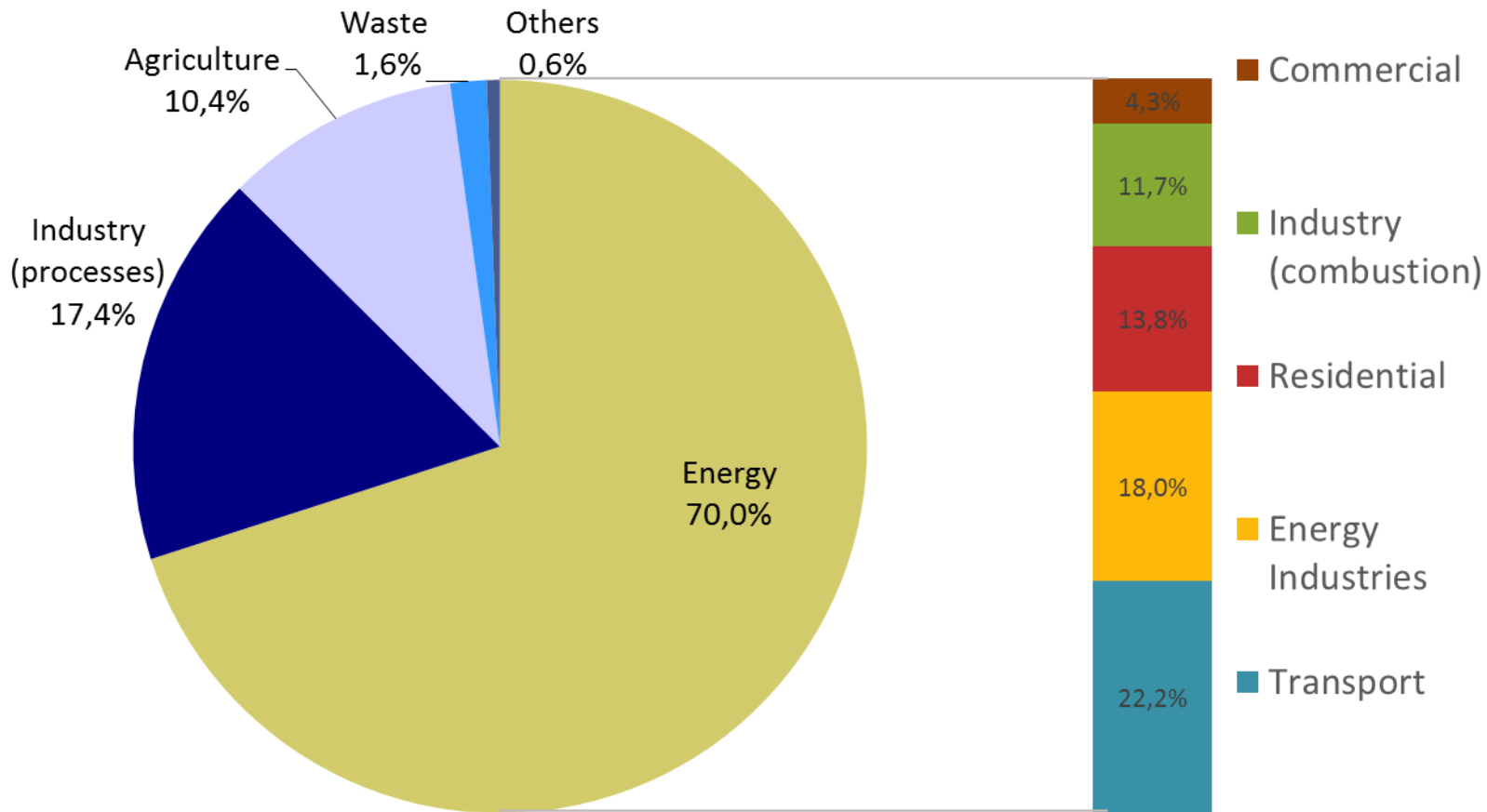
## GDP

- 36 524 €/inhab. (2015)
- +2,2% /yr. (2014/2015)

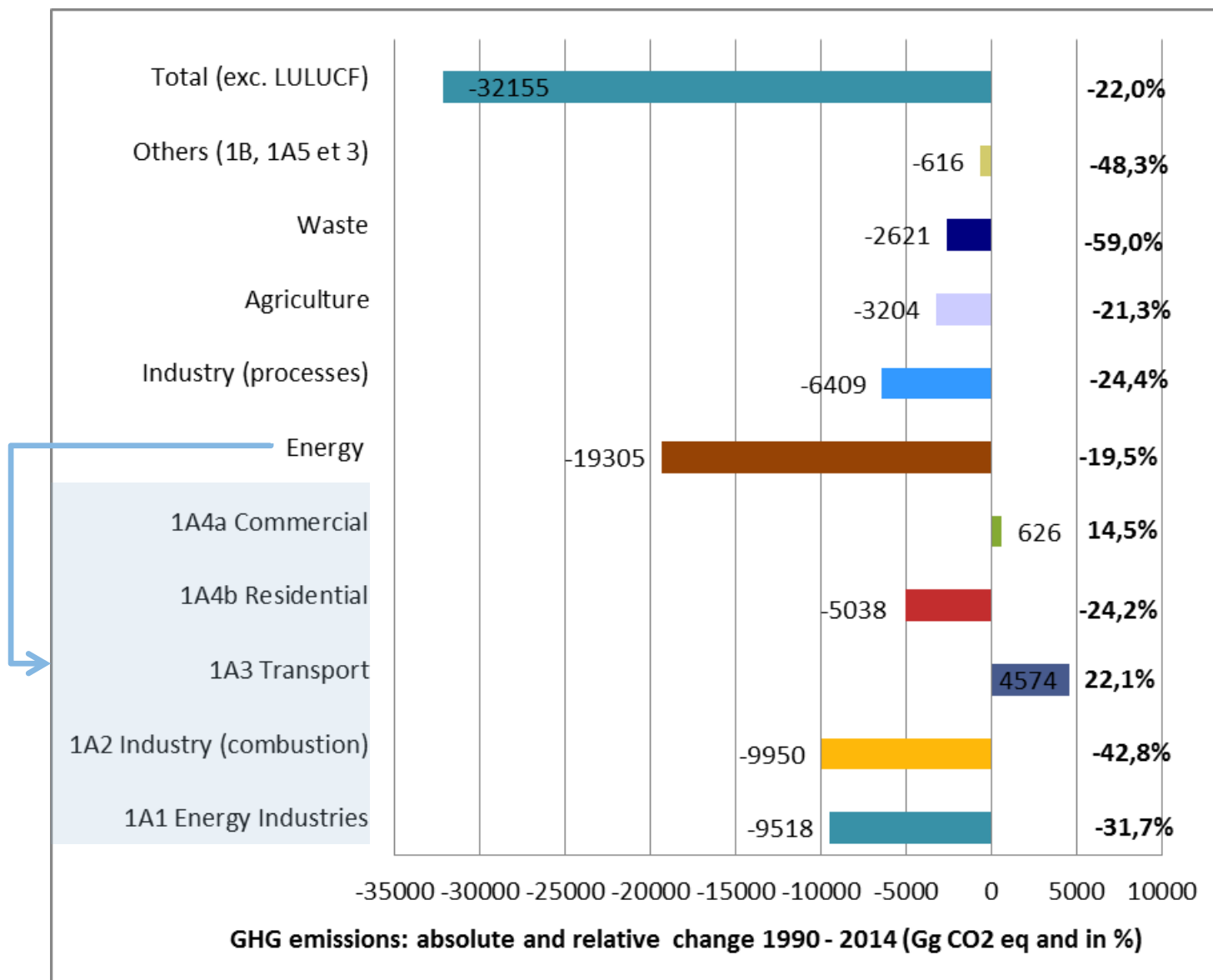
## GHG emissions

- 113,9 Mton CO<sub>2</sub>-eq. excl. LULUCF (2014)
- 10,2 tonnes CO<sub>2</sub>-eq/capita (2014)

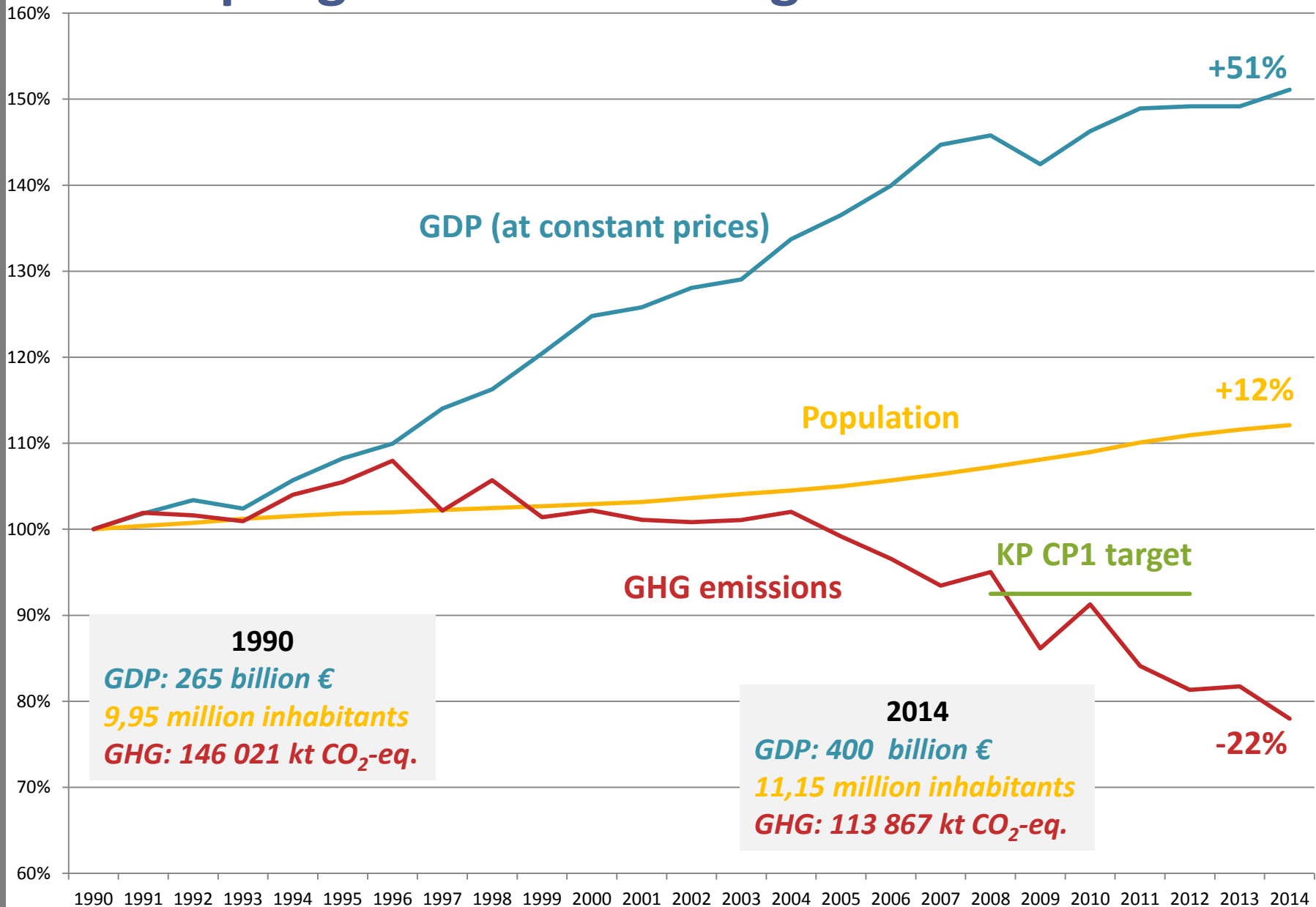
# GHG emissions profile (2014)



# Trends (1990-2014)



# Decoupling emissions from growth



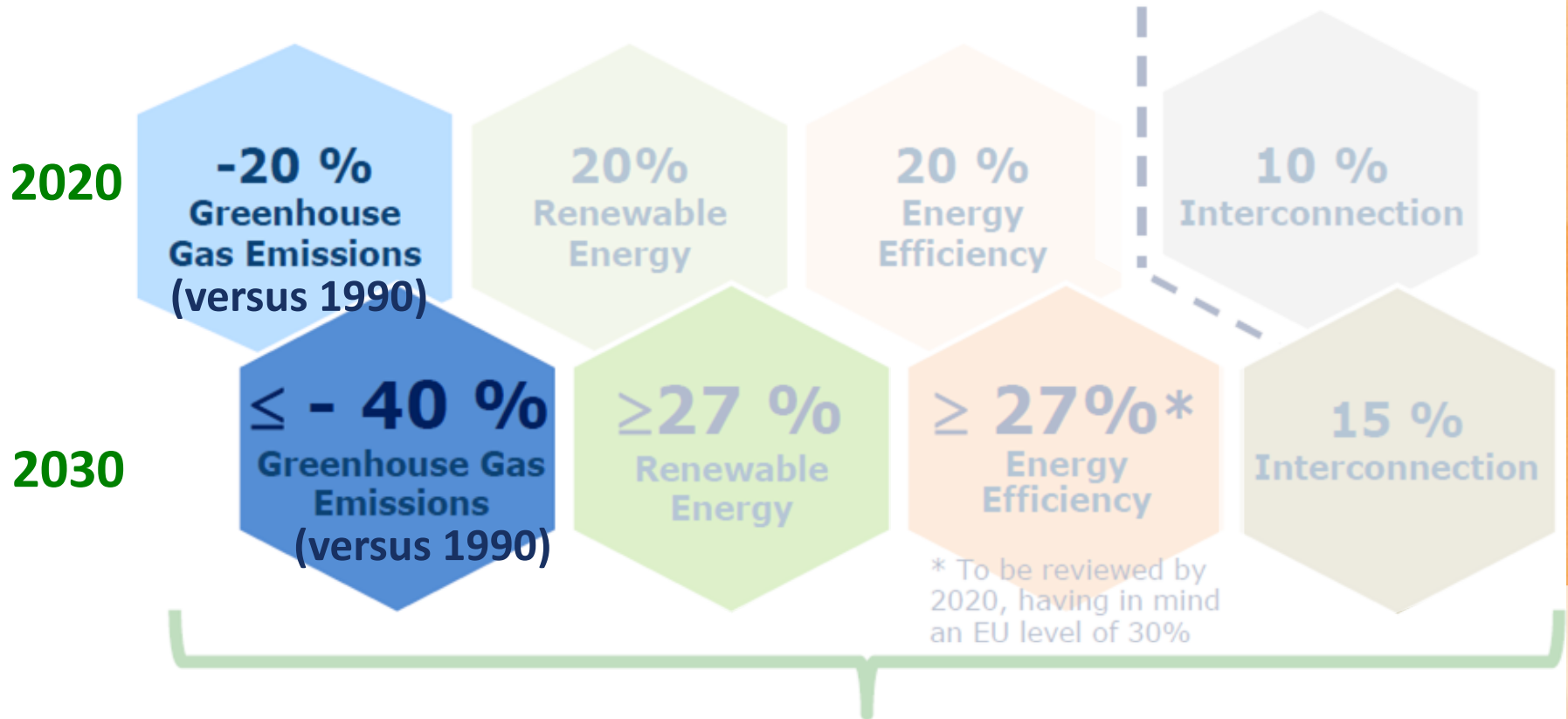
**1990**  
 GDP: 265 billion €  
 9,95 million inhabitants  
 GHG: 146 021 kt CO<sub>2</sub>-eq.

**2014**  
 GDP: 400 billion €  
 11,15 million inhabitants  
 GHG: 113 867 kt CO<sub>2</sub>-eq.

Source: World Bank/OECD, Belgian Statistics, National GHG Inventory (June 2016)



# Belgium's target within the EU

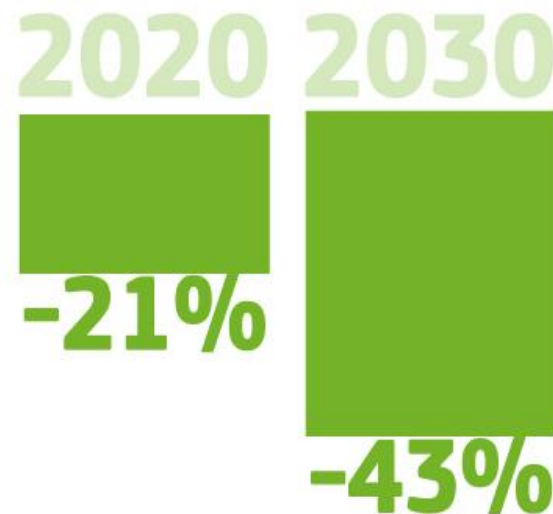
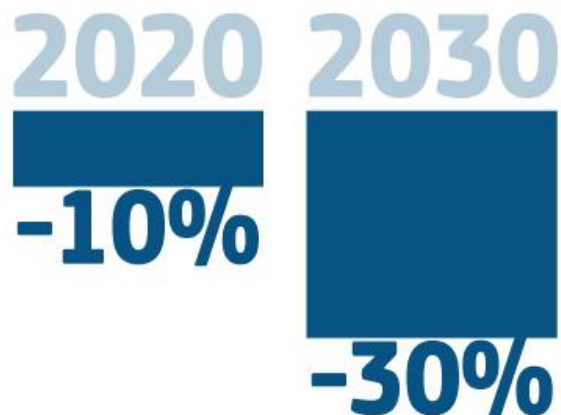


New governance system + indicators

\* To be reviewed by 2020, having in mind an EU level of 30%

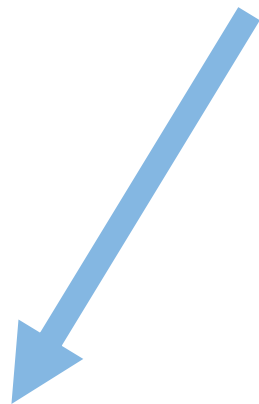
# Belgium's target within the EU

**EMISSION  
REDUCTIONS  
IN ETS AND  
NON-ETS**  
COMPARED TO 2005



**NON  
ETS** INCLUDING ROAD TRANSPORT, HOUSING, AGRICULTURE etc.

**ETS** INCLUDING POWER/ENERGY SECTOR & INDUSTRY

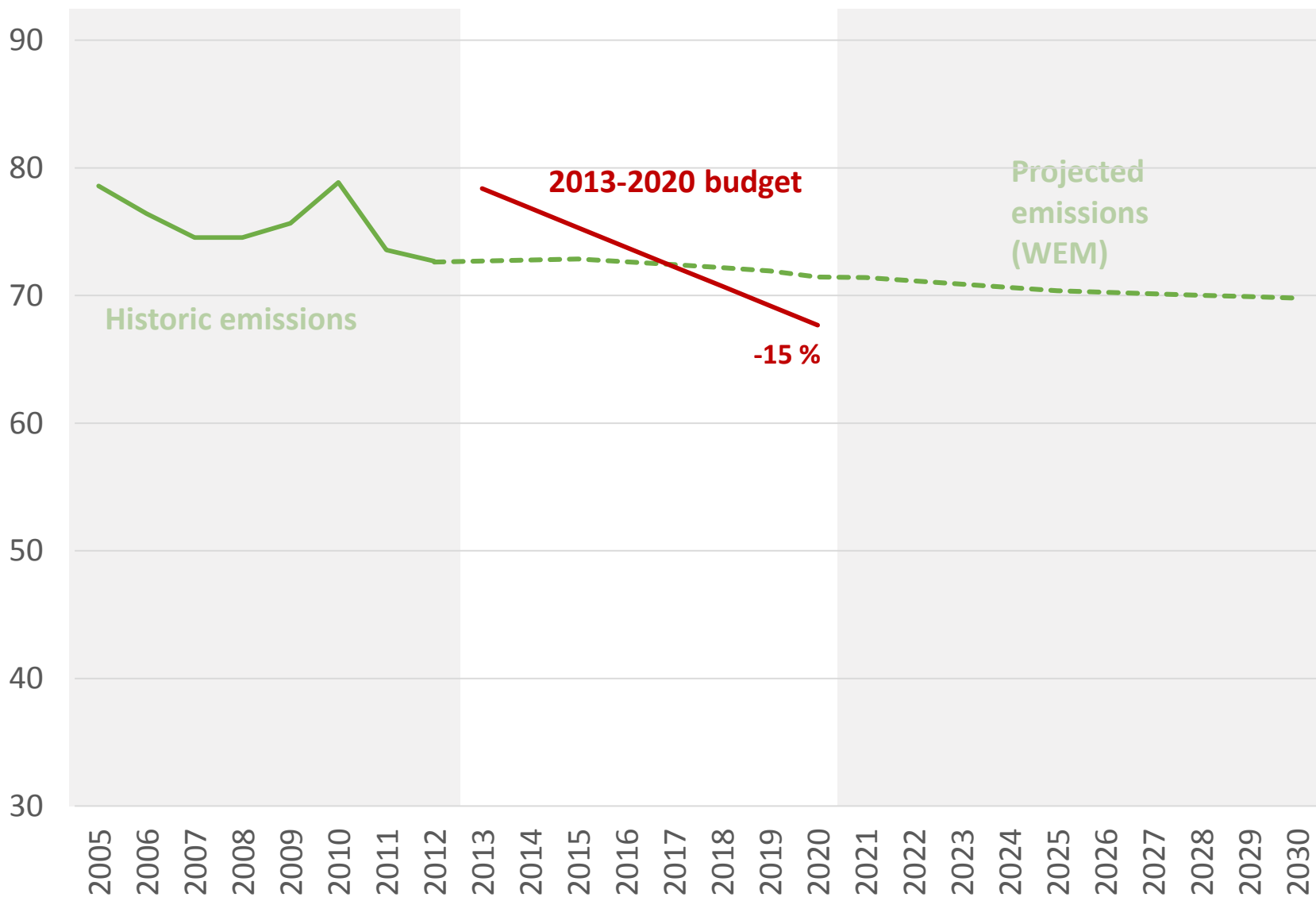


**BE: -15%**  
(Effort Sharing Decision)

**BE: -35%**  
(subject to final approval under the Effort Sharing Regulation)

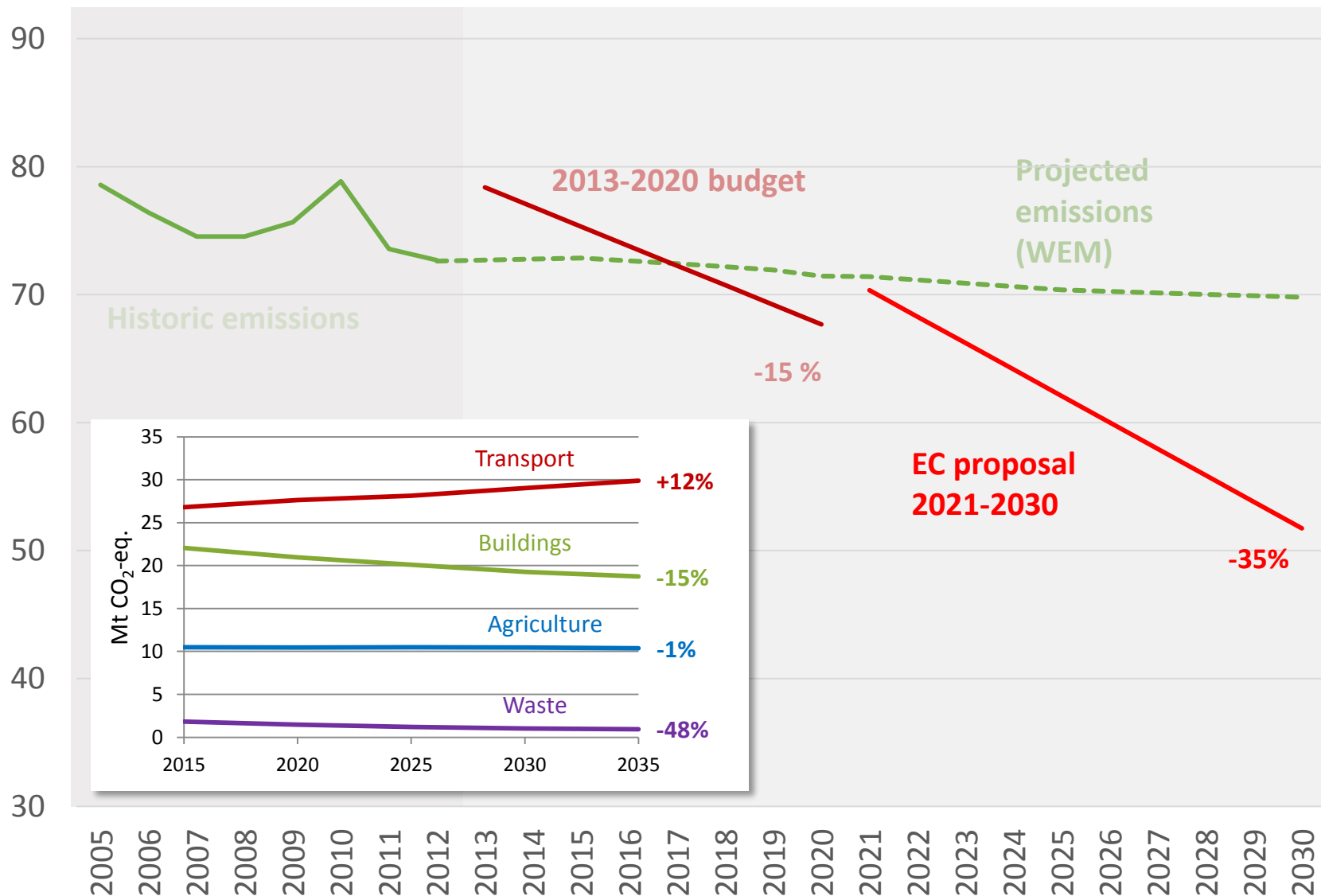


# Trends and targets (2020)





# Trends and targets (2030)





**BELGIUM**  
=  
**Federal State**  
3 Regions  
3 Communities

- Each has its own
  - Parliament
  - Government
  - Administration
  - Strategies & Policies
  - Legislation
- No hierarchy of norms
- Shared competences in Climate Policy

	Federal	Regions	Communities
Environment	+	++	-
Energy	++	++	-
Transport	+	++	-
Land use planning	-	++	-
Agriculture	-	++	-
Education	-	-	++
Taxation	++	+	-
Research	++	++	++
Foreign Affairs	++	+	+
...			

# Organization of climate policy

- **Strategies, plans, policies & measures:**
  - Prepared, adopted and implemented by regional and federal authorities
  - Coordination through cooperation agreements
- **National Climate Commission (since 2002) :**
  - National Climate Plan  
(preparation, approval, evaluation and update)
  - Common methodologies  
(impact assessments, projections)
  - Reporting obligations  
(Inventories, Nat. Coms & BRs, EU Monitoring Mechanism), Exchange of information, etc.)

# Recent Developments

- ✓ National burden sharing 2013-2020
- ✓ National climate and energy plan 2030

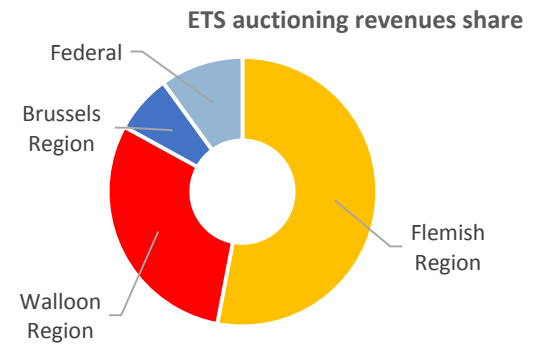
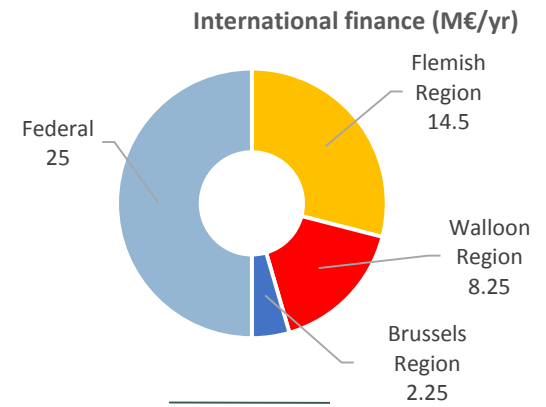
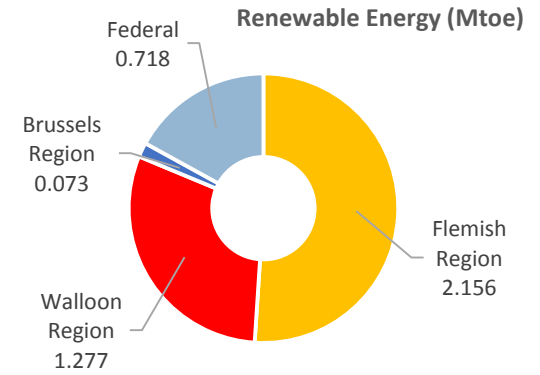
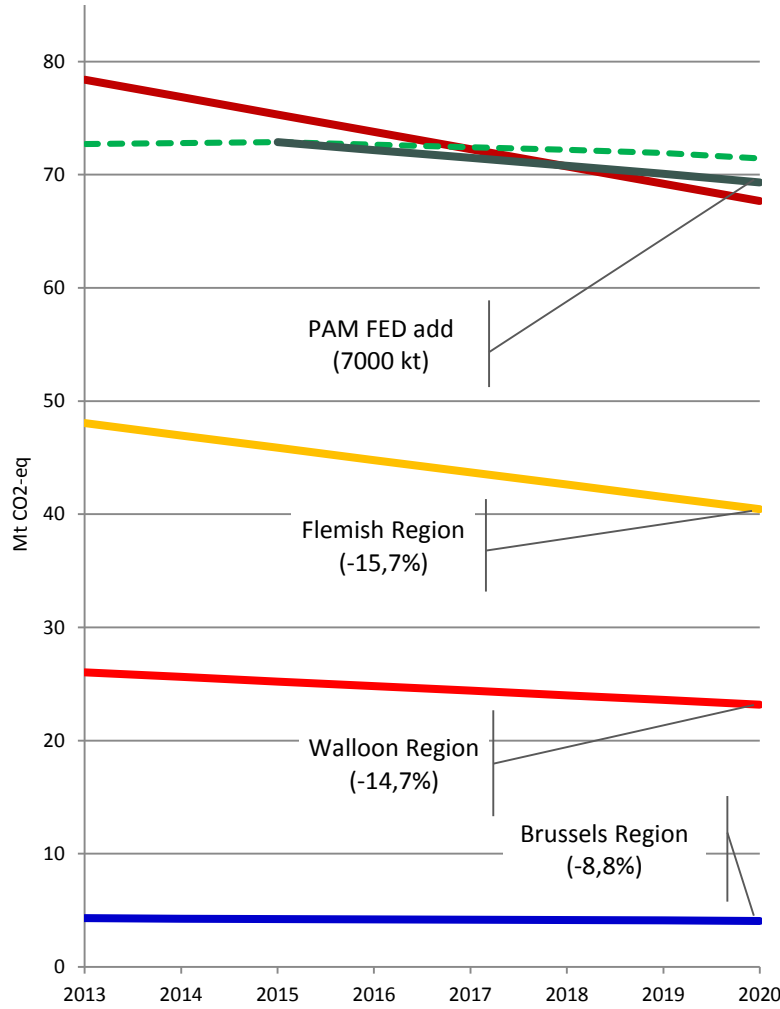
## Recent developments:

# National burden sharing 2013-2020

- political agreement (December 2015)
- enforced by a (legally binding) cooperation agreement (October 2016)
- incl. provisions regarding Monitoring, Reporting & “compliance” (annual)

2020 target	BEL	Flemish Region	Walloon Region	Brussels Capital Region	Federal
Non-ETS (vs 2005)	-15%	-15,7%	-14,7%	-8,8%	PAMs (15250+7000 kton CO2-eq)
RES					
Total	13% 4224 Mtoe	2,156 Mtoe	1,277 Mtoe	0,073 Mtoe	0,718 Mtoe
Transport	10%	PAMs	PAMs	PAMs	10%
Auctioning revenues					
Actual	1st 326 M€	53%	30%	7%	10%
Through 2020	Further	52,76%	30,65%	7,54%	9,05%
International climate finance	50 M€/year	14,5 M€	8,25 M€	2,25 M€	25 M€

# National Burden Sharing 2013-2020



# Examples of key policies and measures

## Renewable energy

- Off-shore wind energy
- Different supports schemes for wind, solar, biomass energy production
- Biofuel incorporation in transport fuels

## Buildings

- Different support schemes for energy savings in existing buildings
- EU Directive on Energy Performance of Buildings (new-built)

## Transport

- Distance-based road charging system for heavy goods vehicles
- Investments in public transport & cycling infrastructure
- Free public transport for commuters

## Others

- Industry: sectoral agreements
- Agriculture: manure management policy (pig farming)



# Other developments

## Federal

- Programme 'Low Carbon Belgium by 2050' (involvement of stakeholders)
- Federal MRV law (October 2016)

## Flemish Region

- Progress report "Flemish Climate Policy Plan 2013-2020". State of play of the climate mitigation and adaptation
- Climate and energy summit process incl.: sectoral commitments of all regional Ministers and stakeholders to mitigation towards 2020 and 2030 / Development of 2050 vision

## Walloon Region

- Walloon Air, Climate and Energy plan (PACE) (implementation Climate Decree, -30% in 2020, -80 to -95% in 2050)
- Stakeholder consultations (new PAMs to achieve the 2030 Energy union objectives and improve the governance)

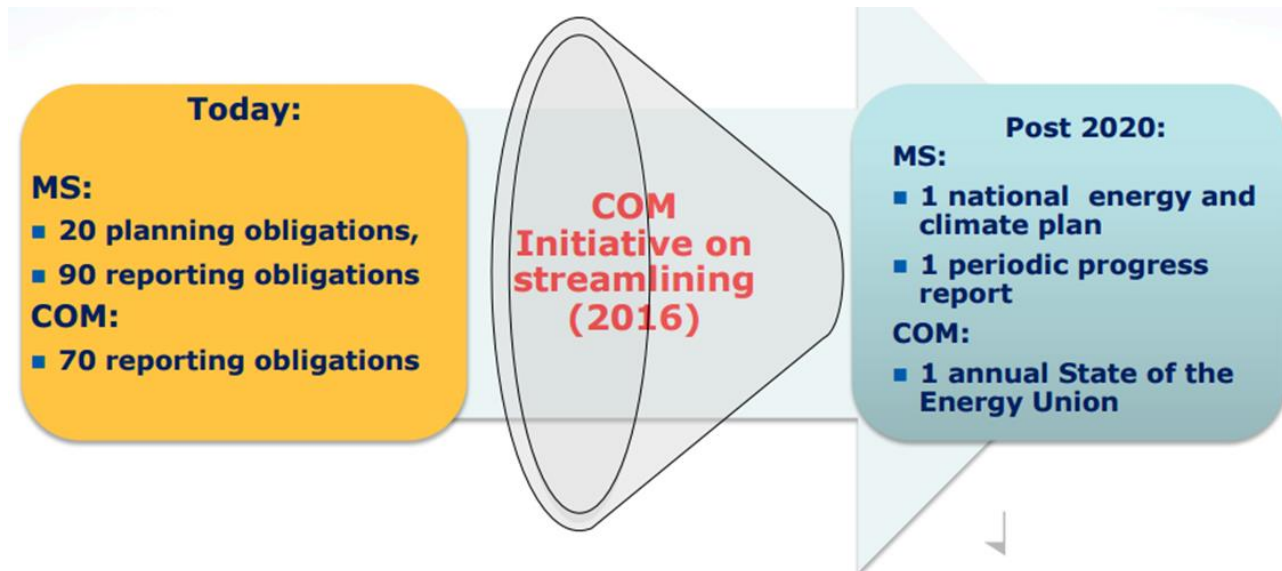
## Brussels Capital Region

- Brussels Air, Climate and Energy Code - COBRACE
- Air, Climate and Energy Plan (PACE)

## Recent developments:

# National Energy and Climate Plan

- Key element of EU Energy Union governance
- High-level strategic planning document, including overarching strategy covering five dimensions:
  - Energy security, solidarity and trust
  - Integrated energy market
  - Energy efficiency
  - Decarbonising the economy
  - Research, innovation and competitiveness
- 2021-2030, with a perspective to 2050



THANK YOU

## MRV arrangements for PAMs

- PAMS monitored and impact evaluated by each authority
- Results are exchanged and compiled (National Climate Commission)
- Methodologies vary depending of the type of policies, the sector, the target, the availability of data, etc. (harmonized to the extent possible)
- Evaluation of emission reductions not possible for all types of measures (→ estimate the global impact of clusters of measures)

	International			EU		
	KP CP2 (2013-2020)	UNFCCC (2020)	UNFCCC (2030)	climate & energy package (2013-2020)		2030 framework
				ETS	Non ETS	
Emission reduction	-20% (EU)	-20% (EU)	≥ -40% (EU)	- 21% (vs 2005)	- 10% (vs 2005)	≥ -40 % (vs 1990)
Other target		Conditional target of – 30%		20 % share of RE of gross final energy consumption; increase EE by 20 %		≥27 % share RE ≥27 % increase EE
Sectors	Energy, IPPU, agriculture, waste, LULUCF	Energy, IPPU, agriculture, waste, aviation	Energy, IPPU, agriculture, waste, LULUCF	Power and heat generation, energy-intensive industry sectors, aviation	Transport (excl. aviation), buildings, non-ETS industry, agriculture (excl. forestry), waste	100 %
Gases	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, HFCs, PFCs, SF <sub>6</sub> , NF <sub>3</sub>	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, HFCs, PFCs, SF <sub>6</sub>	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, HFCs, PFCs, SF <sub>6</sub> , NF <sub>3</sub>	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, HFCs, PFCs, SF <sub>6</sub> , NF <sub>3</sub> not included		CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, HFCs, PFCs, SF <sub>6</sub> , NF <sub>3</sub>
Base year	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O: 1990 HFCs, PFCs, SF <sub>6</sub> : 1995	1990	1990	1990 for overall emission red target; 2005 for RE and EE target, as well as for targets broken down into ETS and non-ETS emissions		1990 for emission reduction target
Use of MBM	Subject to quantitative and qualitative limits			Subject to quantitative and qualitative limits		none
Carry-over	Subject to KP rules	NA	NA	ETS allowances can be banked into subsequent ETS trading periods since the 2nd trading period	No restriction of carry over within the period 2013-2020	Banking in the EU ETS , max annual flexibility for some MS (from ETS / land use sector to non-ETS)
GWP	IPCC 4th AR	IPCC 4th AR	IPCC 4th AR	IPCC 4th AR		IPCC 4th AR