

*Three cases of assessment of progress to targets and the review approaches used during the BR2 reviews:*  
**Case of the United States of America**

4<sup>th</sup> BRs and NCs lead reviewers meeting



***Aglaia Obrekht, Canada***  
Bonn, 6-7 March 2017



## Outline

---



# USA's Target for 2020

	Incl. LULUCF	Excl. LULUCF
Base Year (2005) Emissions	6,438	7,325
2020 Target: in the range of 17% below 2005	5,344	Not applicable

*Note: USA's BR2 also includes information on its target for 2025 of 26% to 28% reduction below 2005 level.*

Gases Covered:	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, HFCs, PFCs, SF <sub>6</sub> , NF <sub>3</sub>
Sectors Covered:	Energy, Transport, Industrial processes, Agriculture, LULUCF and Waste
GWP values:	4 <sup>th</sup> Assessment Report of the IPCC
LULUCF:	Emissions and Removals from LULUCF are included in the target and accounted for using the land-based approach
Market based mechanisms:	No intentions to use international market-based mechanisms to meet the target



## USA's Plan to Reach the Target: Current Situation

---

- In 2013 USA's emissions excluding LULUCF were already 9.2% below the base year level (at 6,650 Mt CO<sub>2</sub> eq).
- In addition to that the contribution from LULUCF was 858 Mt CO<sub>2</sub> eq, bringing the total emissions including LULUCF to 5,791 Mt CO<sub>2</sub> eq, or 10% below the base year level emissions (including LULUCF).
- Despite continued economic growth annual net emissions have decreased by 1.3% on average since 2005, which was a reversal of past trends of annual increases of 1.1% from 1990 to 2005.
- However, as reported in the USA's NIR for 2016, annual GHG emissions have had an increasing trend since 2012 and have gone up by 1.1% from 2013 to 2014.



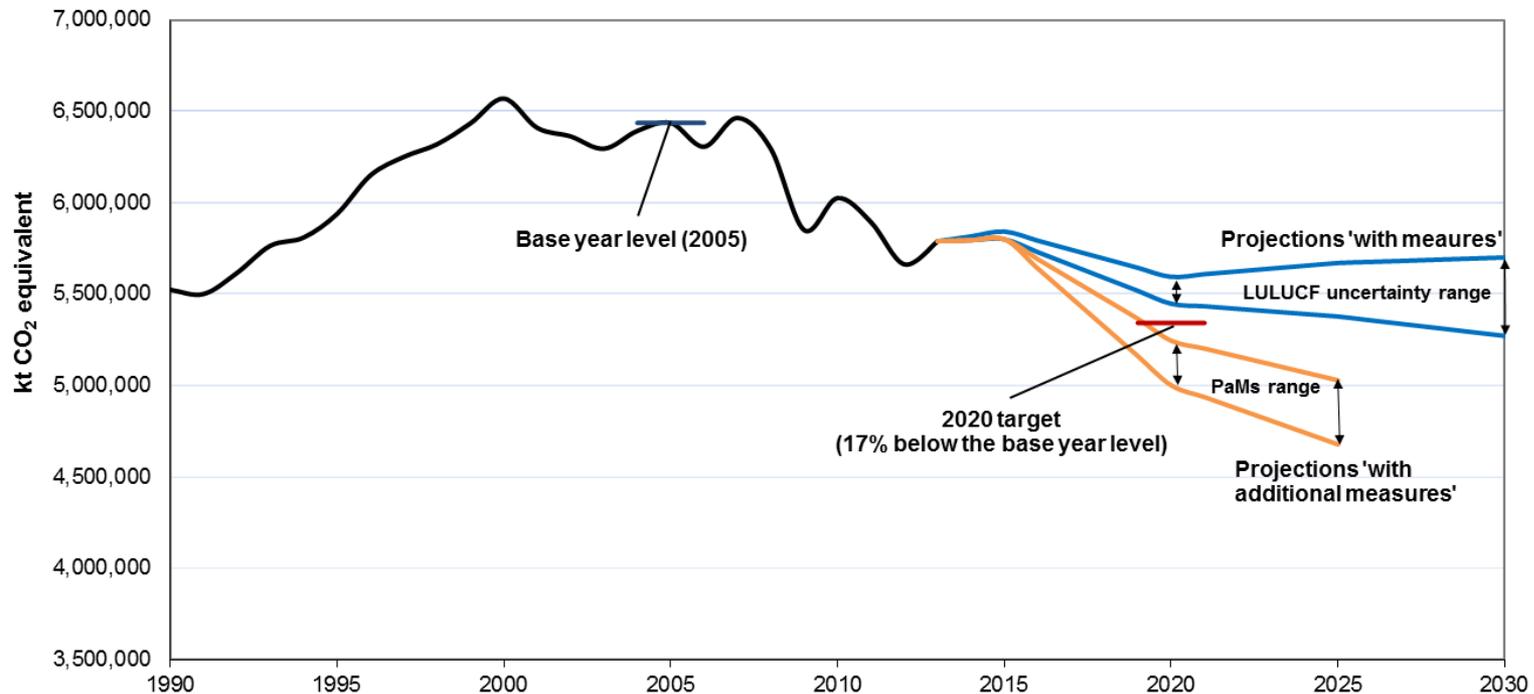
# USA's Plan to Reach the Target: Path Forward

---

- Implemented mitigation actions and their reductions in 2020:
  - National Program for Light-Duty Vehicle GHG Emissions and Corporate Average Fuel Economy Standards (236 Mt)
  - Appliance, Equipment and Lighting Energy Efficiency Standards (216 Mt)
  - Significant New Alternatives Policy Program (317 Mt)
  - Landfill air regulations (262 Mt)
  - Clean Power Plan (NA – starts in 2022)
  
- Additional Mitigation Actions are planned by the USA to help reduce emissions further and meet the target. Potential reductions in 2020: 202-446 Mt; in 2025: 349-700 Mt. Key measures include:
  - Phase II of the National Program for Heavy-Duty Vehicle GHG Emissions and Fuel Economy Standards
  - Actions to Reduce emissions of HFCs
  - Strategy to Reduce Methane Emissions



# GHG Emissions Projections for the USA



- 'With measures' scenario was provided as a range (related to uncertainty in sequestration levels in LULUCF sector) and is above the 2020 target.
- 'With additional measures' scenario is also provided as a range (uncertainty in the impacts of the planned policies, with 'optimistic' sequestration levels in LULUCF). With the 'optimistic' sequestration levels emissions in 2020 are expected to be below the 2020 target.

## Assessment of the likelihood to reach the USA's 2020 Target

Including LULUCF	Emissions (Mt CO <sub>2</sub> eq) in 2020	% below Base Year
<b>Emission Target:</b>	<b>5,344</b>	<b>17%</b>
WEM scenario (low sequestration):	5,595	13.1%
<i>WEM scenario (high sequestration):</i>	<i>5,451</i>	<i>15.4%</i>
WAM scenario (low sequestration, low policy impact)	5,393	16.2%
WAM scenario (high sequestration, low policy impact)	5,249	18.5%
WAM scenario (high sequestration, high policy impact)	5,005	22.3%



# Challenges

---

- Ranges: CTF 6 tables do not allow entering ranges or multiple sensitivity scenarios
  - Therefore the US has picked the 'high' LULUCF sequestration scenario for WEM
  - The US was not able to report on WAM scenario, where there was uncertainty ranges related to two factors: LULUCF and expected impacts of the planned policies.
- Reporting on the WAM scenario in CTF 6(c) table:
  - Usually additional measures are measures that are under development, therefore it is difficult to predict the exact emissions impacts, and even more difficult to break down the reductions by sectors and gases.
- While the text of the BR2 provided the information on US planned measures, it was not found in CTF table 3. The US explained that the information was not included in CTF table 3 because these proposed PaMs could undergo changes between proposal and finalization.



---

Thank you!!

