Multilateral Assessment
UNFCCC SBI43
Kazakhstan

Astana – Paris, December 1, 2015

Kazakhstan basic overview

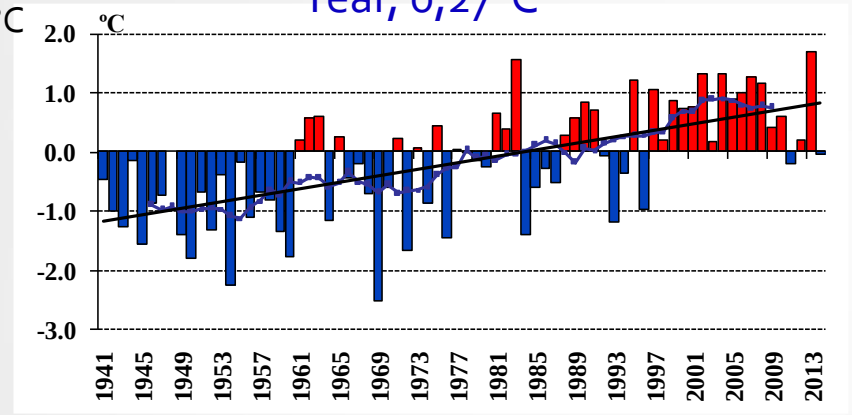
- **Geographical and economic information**
  - Middle of Eurasia
  - Landlocked
  - Population (2015): 17,6 million
  - GDP (2015): USD 190 billion
  - GDP per capita (2015): USD 10,830
  - Industry share in GDP: Around 36% (2014)
  - GDP growth 1.2% (projected for 2015)
- Kazakhstan is a major producer and net exporter of energy
  - Around 90% of energy is generated from fossil fuels, and dominated by coal-fired power
  - Overall energy self-sufficiency: 207% (Source IEA)
- Carbon intensity (kCO2/$2005 PPP): 0.72 (source IEA)

Dynamic of temperature changes 1941-2014., °C/10 years

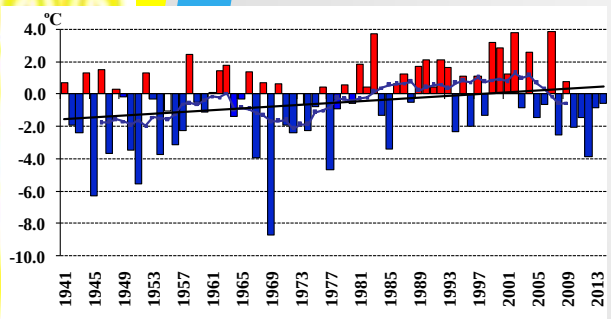
↗Year

West Kazakhstan oblast – 0,38°C

Year, 0,27°C



Winter, 0,27 °C



↗Winter:

West Kazakhstan–0,46°C

Atyrauskaya – 0,38 °C

↗Spring :

West Kazakhstan–0,43°C

Akmolinskaya – 0,38 °C

Kostanayskaya, North- Kazakhstan– 0,37 °C

↗Summer:

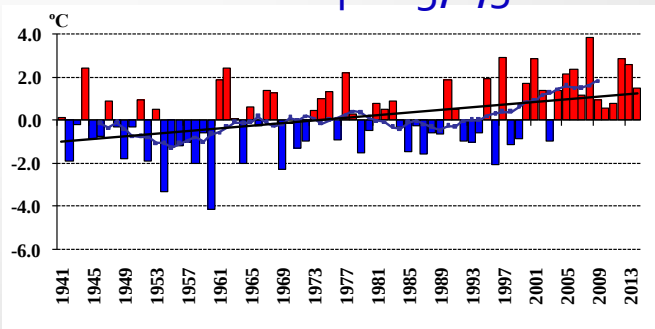
West Kazakhstan, Zhambylskaya, Kyzylordinskaya – 0,27 °C

↗Autumn:

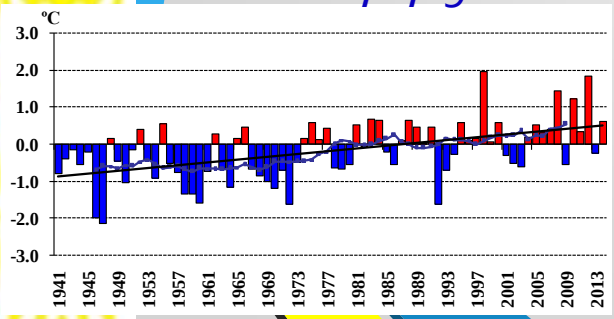
West Kazakhstan – 0,34 °C

South Kazakhstan, North Kazakhstan, Kostanayskaya, Akmolinskaya, Karagandinskaya – 0,32 °C

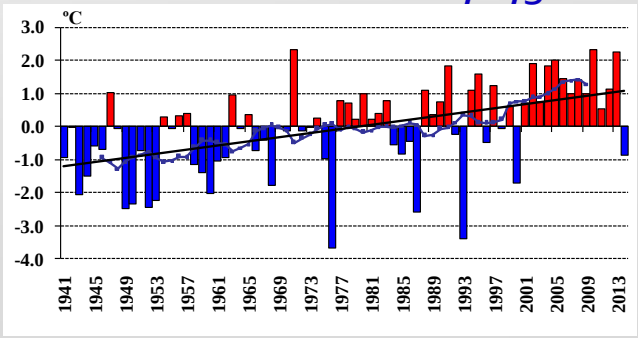
Spring,0,31 °C



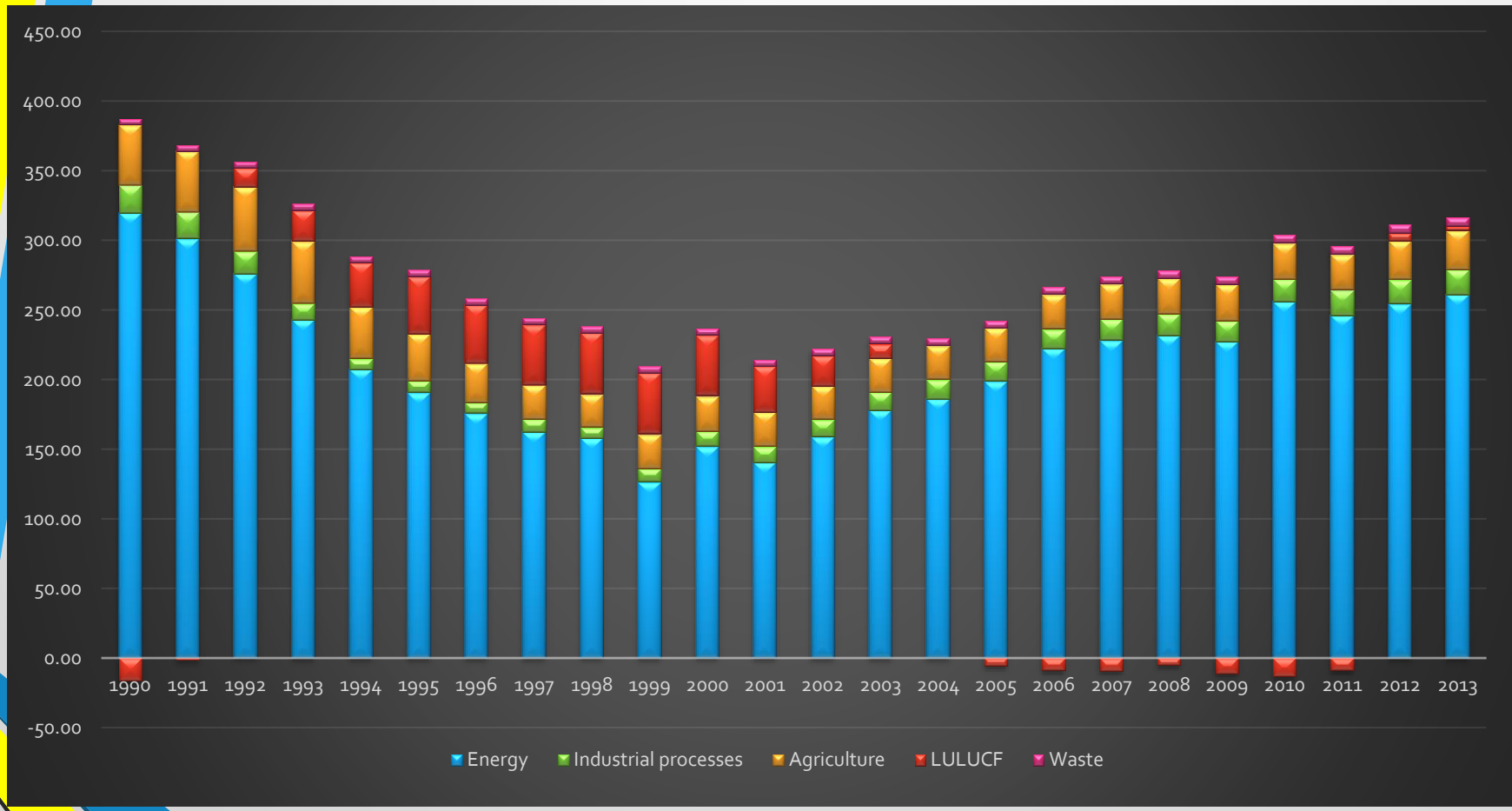
Summer, 0,19 °C



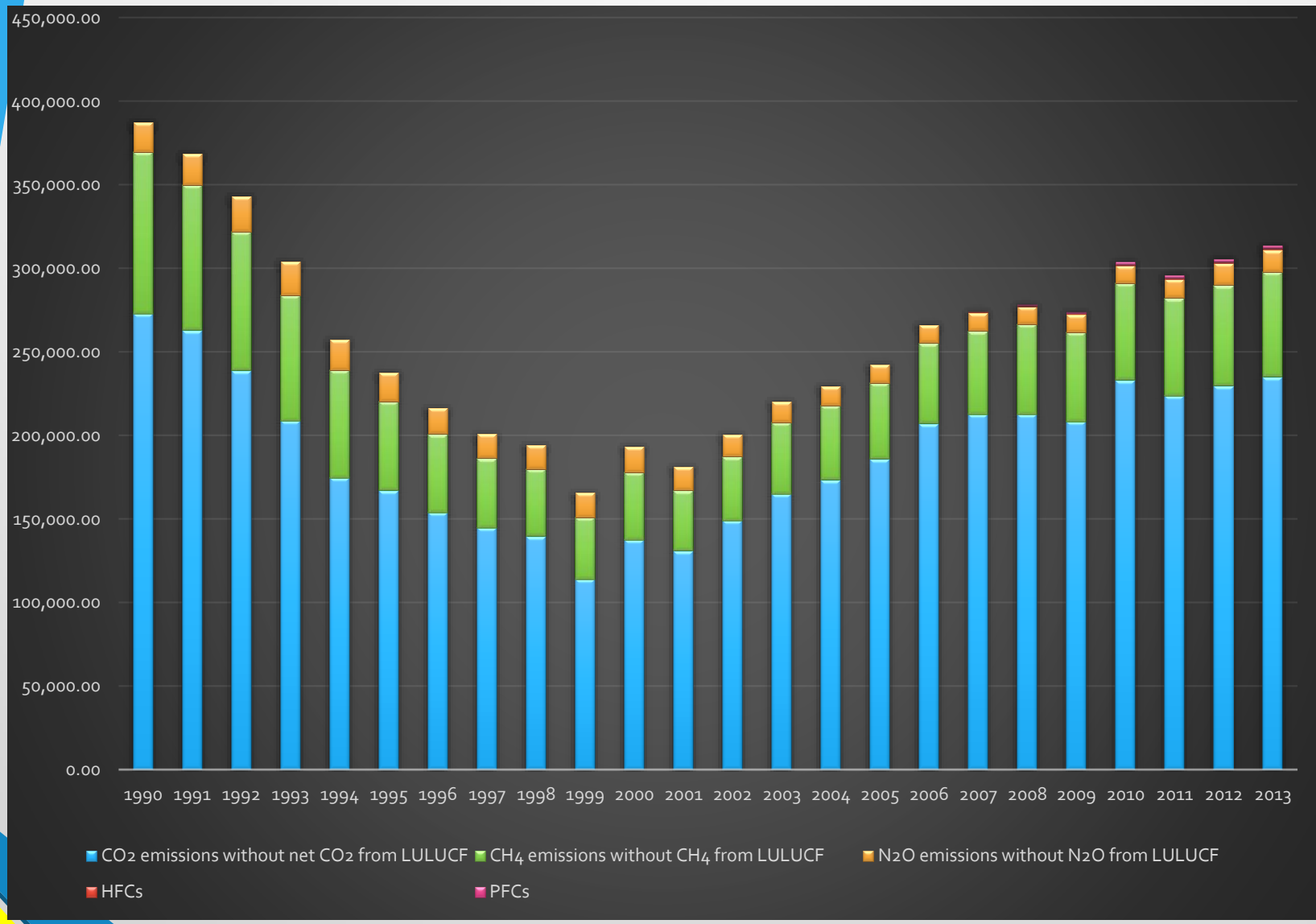
Autumn, 0,31 °C



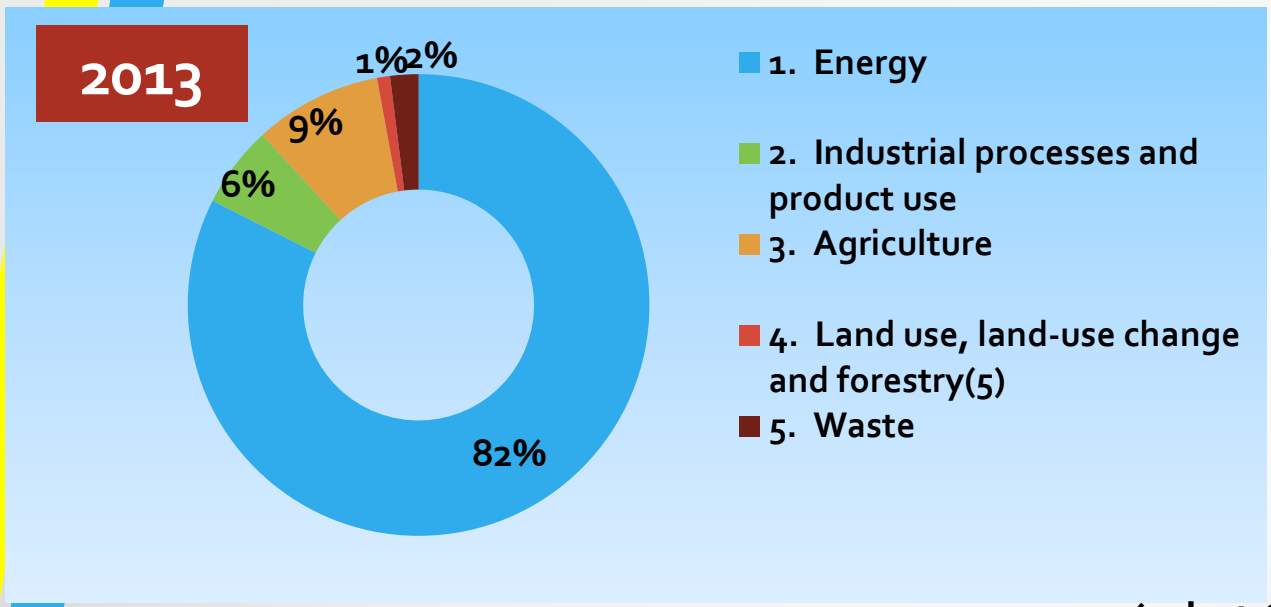
GHG emissions, mln tons of CO_2-eq

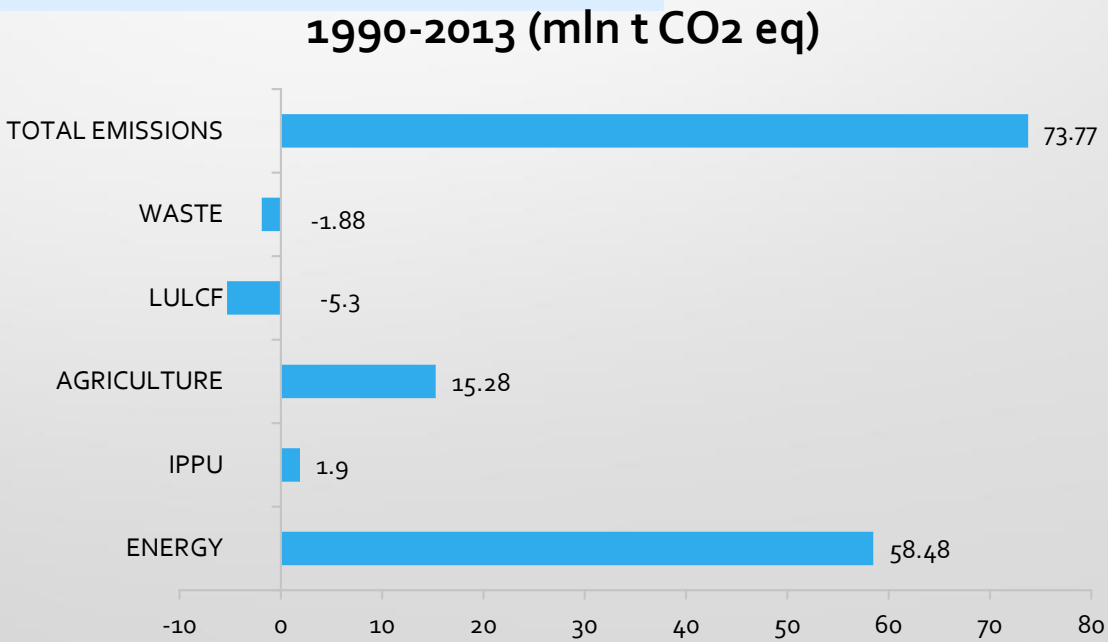


Structure of GHG emissions

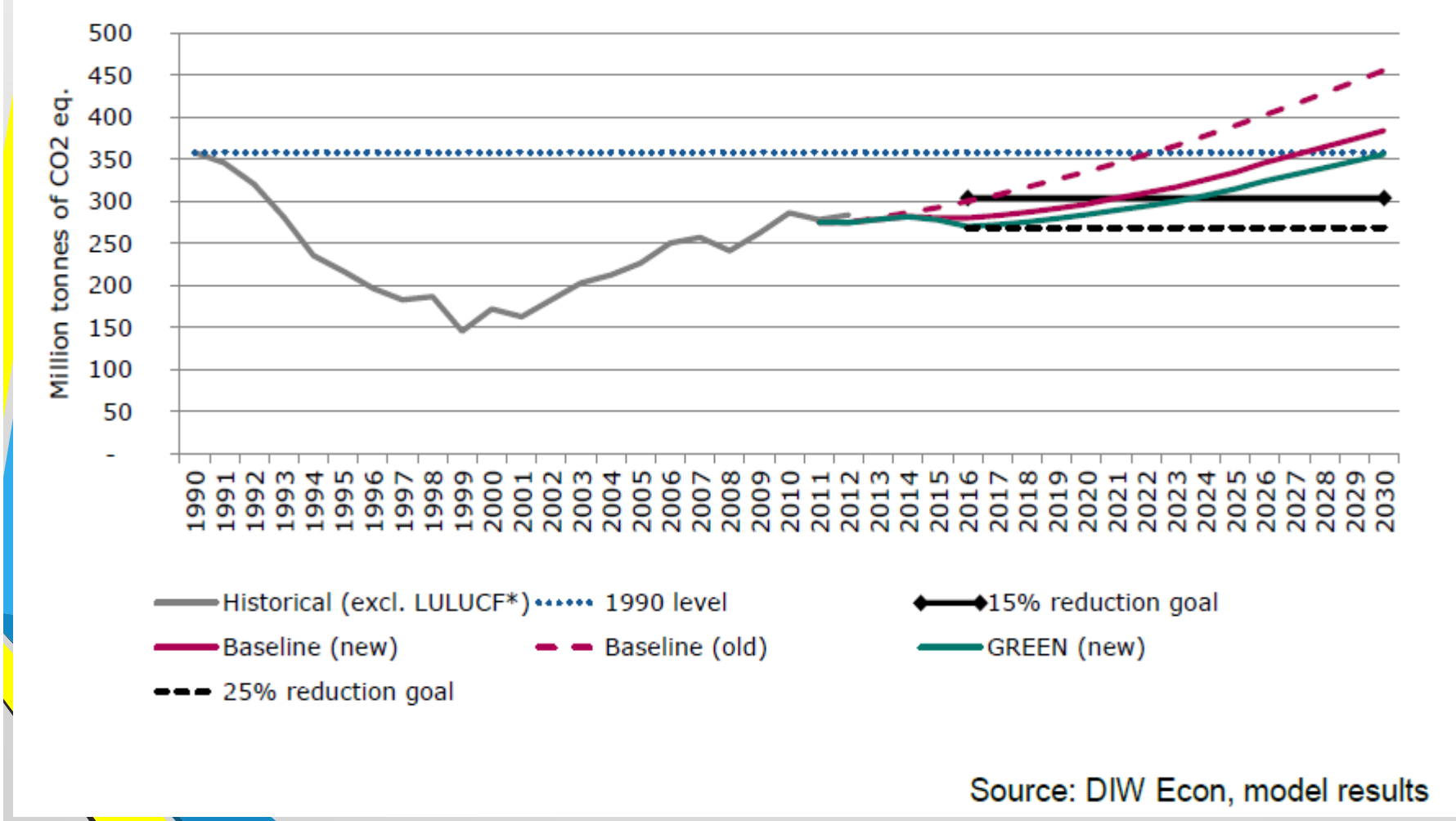


GHG emissions structure



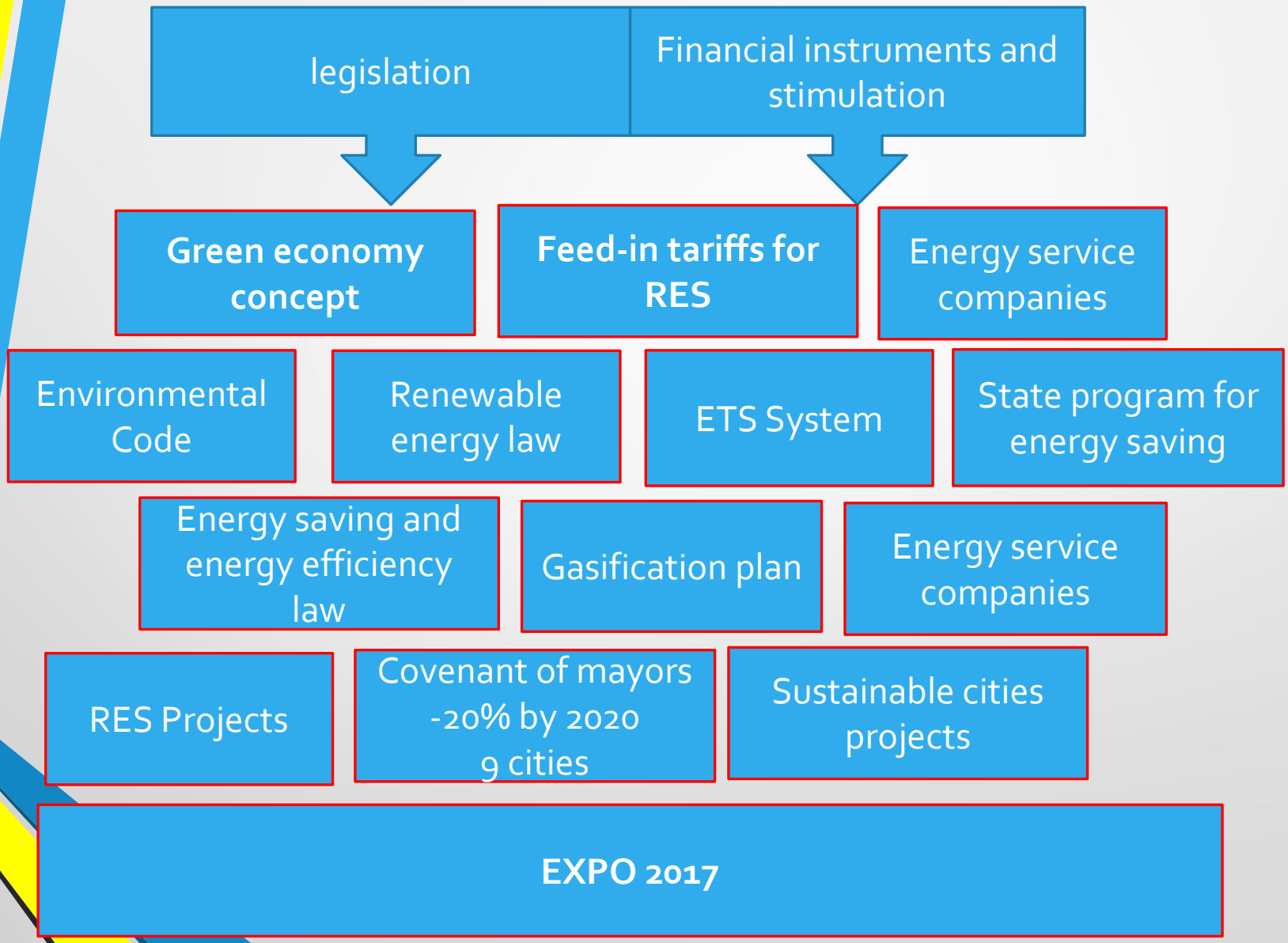


Pledge by 2030:
-15% compared to 1990 level



Source: DIW Econ, model results

Actions & measures taken:



Mid- and long-term strategies

Strategic document	Activity	Numerical indicator
Concept of the Republic of Kazakhstan for the transition to a "Green" Economy	Reduction of GDP energy intensity	25% by 2020 30% by 2030 50% by 2050
Concept of the Republic of Kazakhstan for the transition to a "Green" Economy	Reduction of current CO2 emissions in electricity production	Levels of 2012 by 2020 -15% by 2030 -40% by 2050
Concept of the Republic of Kazakhstan for the transition to a "Green" Economy	Development of renewable energy through the construction of wind and solar power	3% by 2020 10% by 2030 50% by 2050
The "Kazakhstan-2050" Strategy for development	Alternative and renewable source of energy	By 2050 in country the sources should be no less than half of overall energy consumption

EXPO2017

- ***The key concepts of Astana EXPO 2017 – socio-economic and environmental – derive from the contemplation of energy use in a context linked with sustainable development.***

In regard to the socio-economic aspects:

- Promoting renewable energy and other energy alternatives
- Energy efficiency and responsible consumption
- Electrification of transport
- Universal access to clean energy
- Energy security
- The inseparability of energy and matter, life, and human beings

In regard to the environmental issues:

- Fossil energy resources, limited and highly polluting in their use as the primary source of electric energy
- Global warming and climate change
- Pollution and its health risks
- Reduction in fossil fuel consumption and CO_2 emissions

Thank you for your attention!

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