

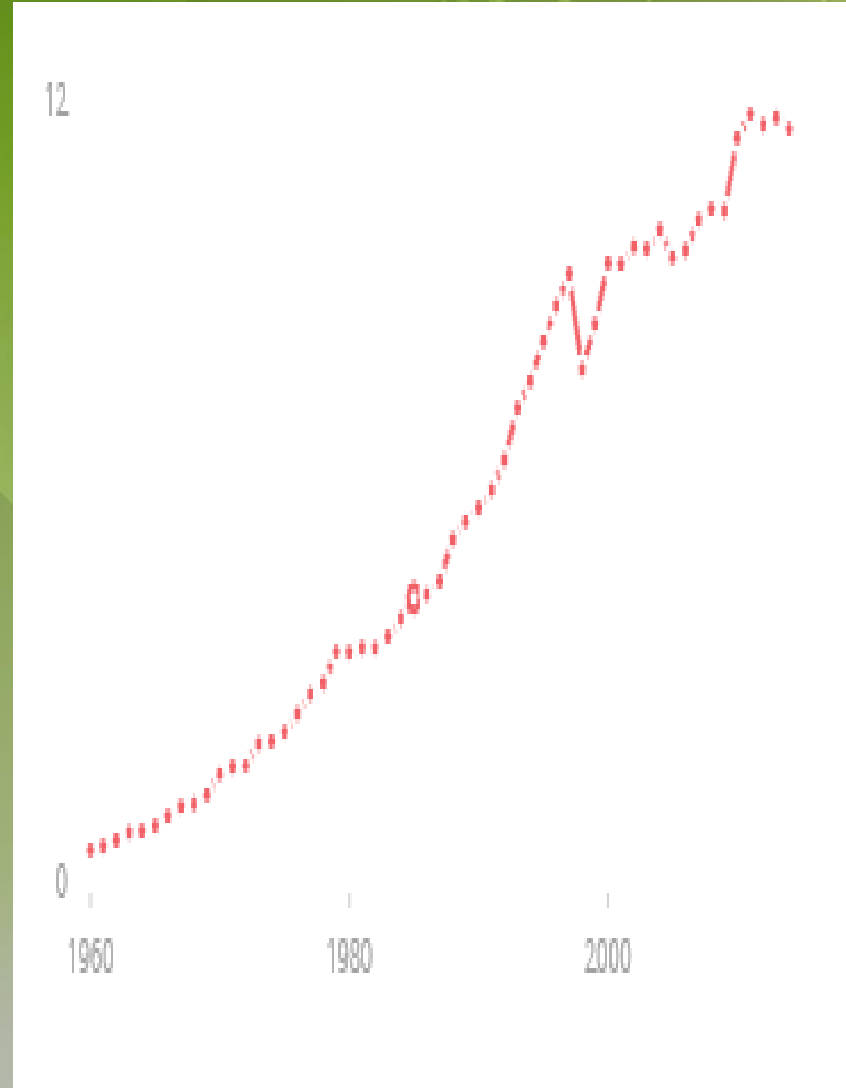
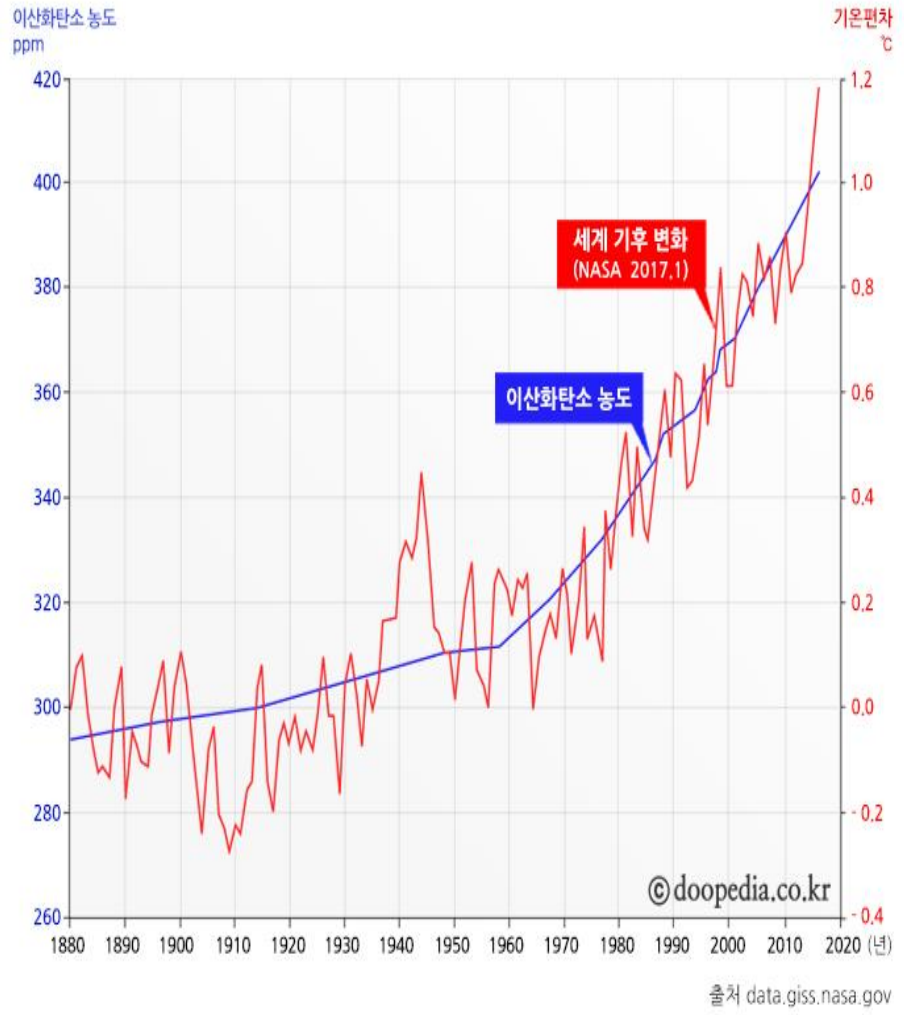
Korea's Actions for Climate Change under PA



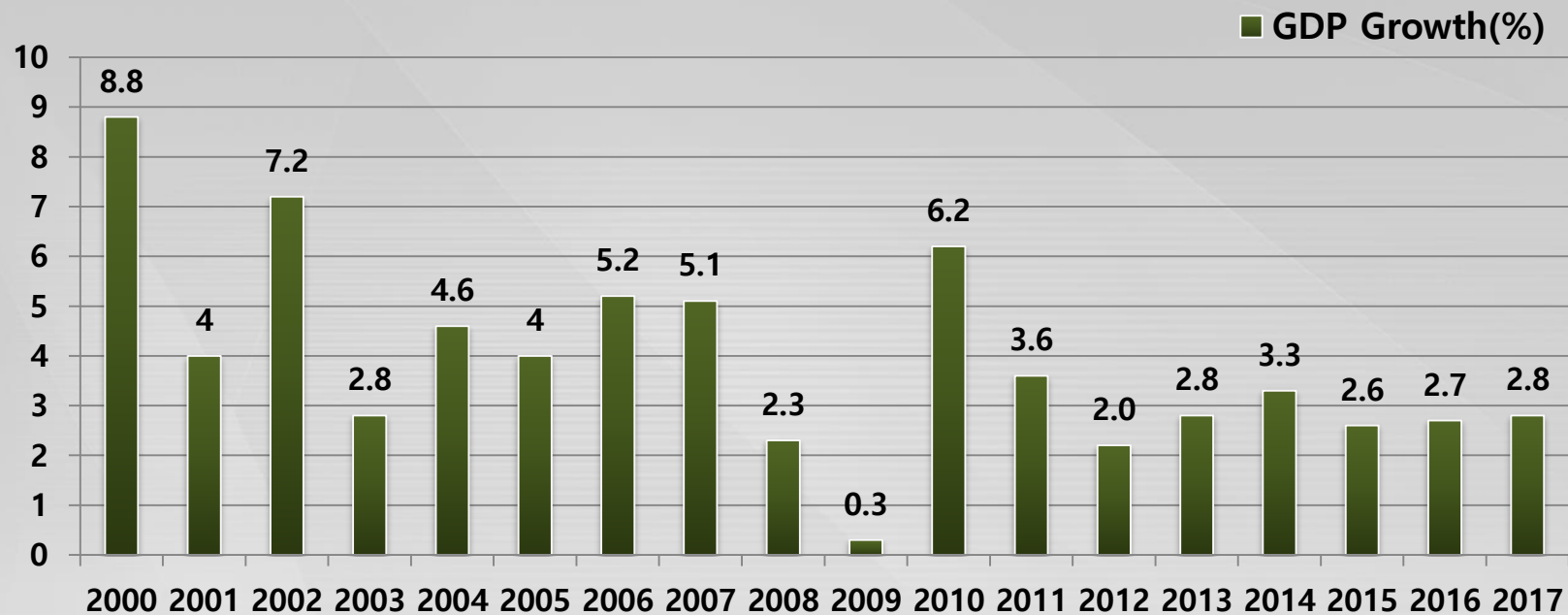
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Korea Legislation Research Institute**

The Relationships between GHG & Climate Change

이산화탄소 농도와 기온의 상관관계



- Low Level of Development since 2000



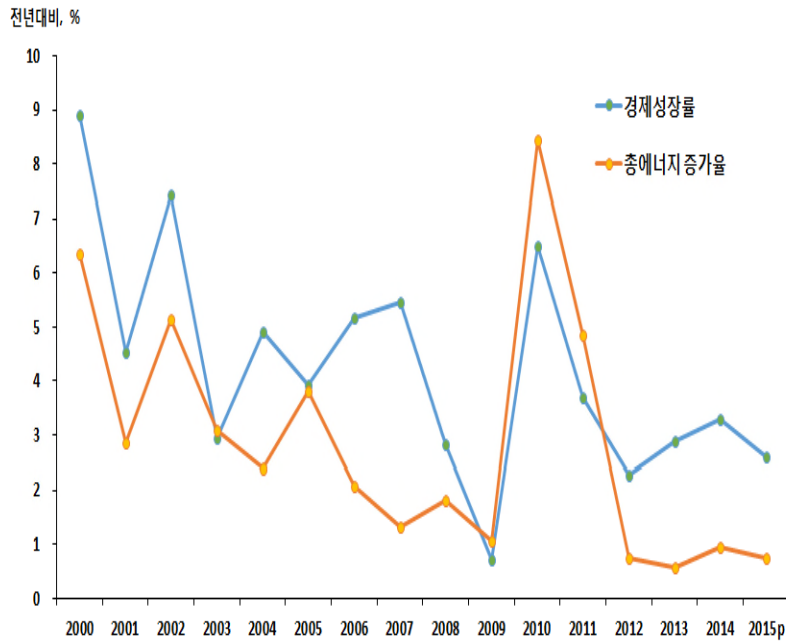
<Source: Bank of Korea>

- Weak Job Creation and High Unemployment rate

Climate Change !

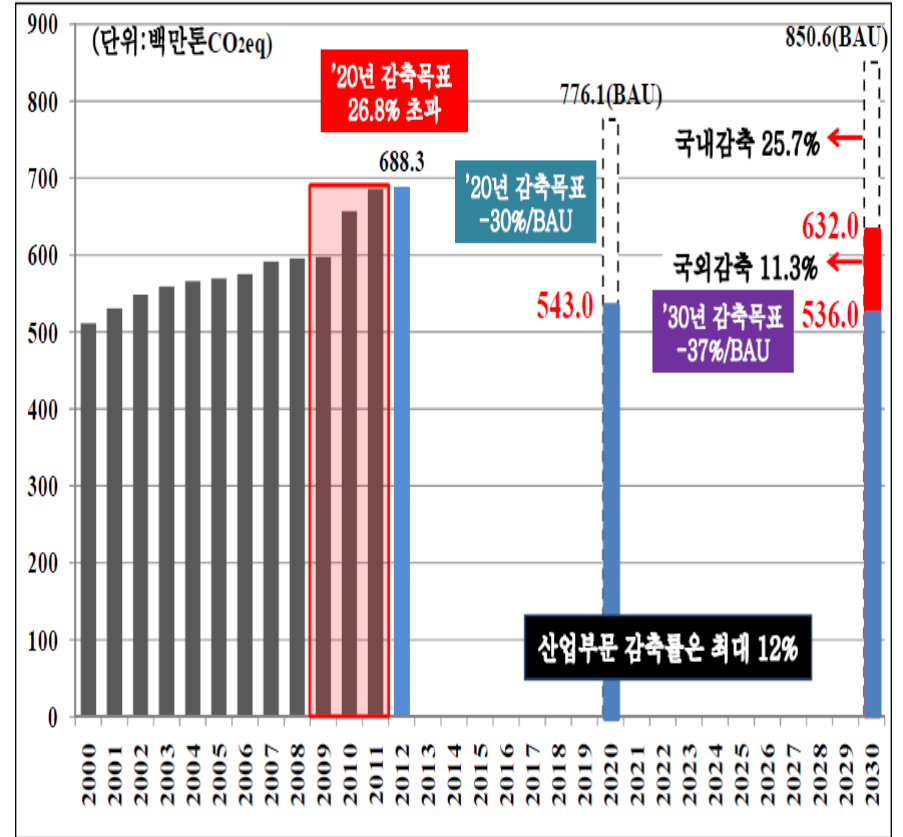
- No only Burden, but another chance.

에너지 소비 정점 도달의 가능성



출처: 에너지경제연구원 2016년 3월 23일자 보도자료

한국의 Post-2020 감축목표



GHG Emission Status in Korea

- GHGs Emission in Korea is on the rise, but gradually stagnated.
 - 6th largest emitter among OECD countries
 - 7th largest emitter in the world

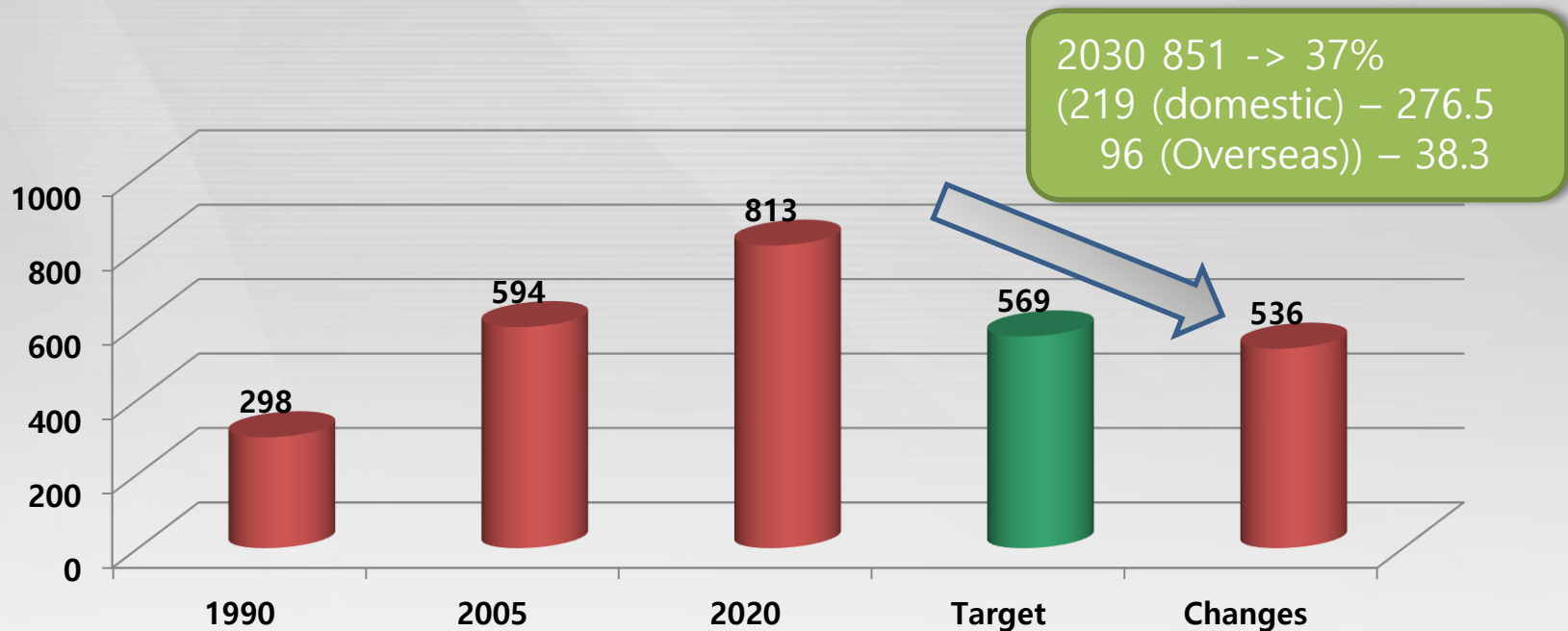
- "Korea's current policy mix is unlikely to be sufficient to achieve its target (OECD, 2017)"

- The need for New Policy and Legislative Strategy for new climate regime

Revised Roadmap Target (2018-2030)

Reduction Target

Unit: Million tons of CO₂-eq



<Source: Presidential Committee on Green Growth>

1. Energy (Reduction 57.8 Mton)

● Improve Power Generation Infrastructure

- Shut down 10 old coal plants by 22 & replace 6 coal plants with LNG plants
- Stop constructing new coal plants and nuclear power plants (LNG and hydraulic power to be used for new power sources)
- Retrofit old coal plants in greater numbers

● Enhance low-carbon energy mix

- Promote renewable energy (20% by 2030)
- Shut down coal plants from March to June
- Introduce Environmental dispatch process

2. Industry (Reduction 98.5 Mton)

- **Improve Energy efficiency of industrial equipment**
 - **Introduce the certification system for highly energy efficient equipment**

- **Introduce Factory Energy Management System**
 - **To be introduced to large-scale factories with policy incentives**

- **Streamline factory facilities to improve energy efficiency**
 - **Develop new & innovative technologies to create added values**
 - **Develop eco-friendly gas for processed that will replace refrigerant (expand best practice technologies to entire industry)**

3. Buildings & Homes (Reduction 64.5 Mton)

- **Enhance energy efficiency standard**
 - Tighten building energy standards on insulation
 - Amend relevant laws for certifying zero-energy buildings

- **Upgrade existing buildings and homes' energy efficiency**
 - Require energy-intensive public buildings to change into green buildings
 - Establish mid-to long-term plan for green remodeling
 - Support planning and financing for retrofitting old buildings in private sector

- **Introduce energy information system and change consumption pattern**
 - Develop and monitor Building Energy Management System

4. Transportation (Reduction 30.8 Mton)

- **Promote low-carbon vehicles Enhance energy efficiency standard**
 - Public transportation – electric bus, fuel-cell bus
 - Up to 3 million Evs by 2030

- **Upgrade energy efficiency in marine transportation**

- **Promote eco-driving**
 - Expand low-carbon logistics
 - (model shift from road to railway)

- **Waste (4.5 Mton), Public sector (5.3), Agriculture (1.6)**

- **Revised Enforcement Decree of the Framework Act on Low-Carbon, Green Growth**
 - To change target-setting method from relative target of 37% reduction from BAU level by 2030 to **Absolute target** of 536 Mtons of emission after reduction
- **Establish 2050 low-carbon development strategy and revise & submit NDC by 2020**



A pair of hands is held up in a gesture of gratitude, palms facing each other. The background shows a large, leafy tree in a grassy field under a bright sky. The text "Thank you" is overlaid in the center in a bold, black, sans-serif font.

Thank you