

CTCN Deep Dive Workshop



Promoting Climate Technology R&D and Private participation

17 June 2019

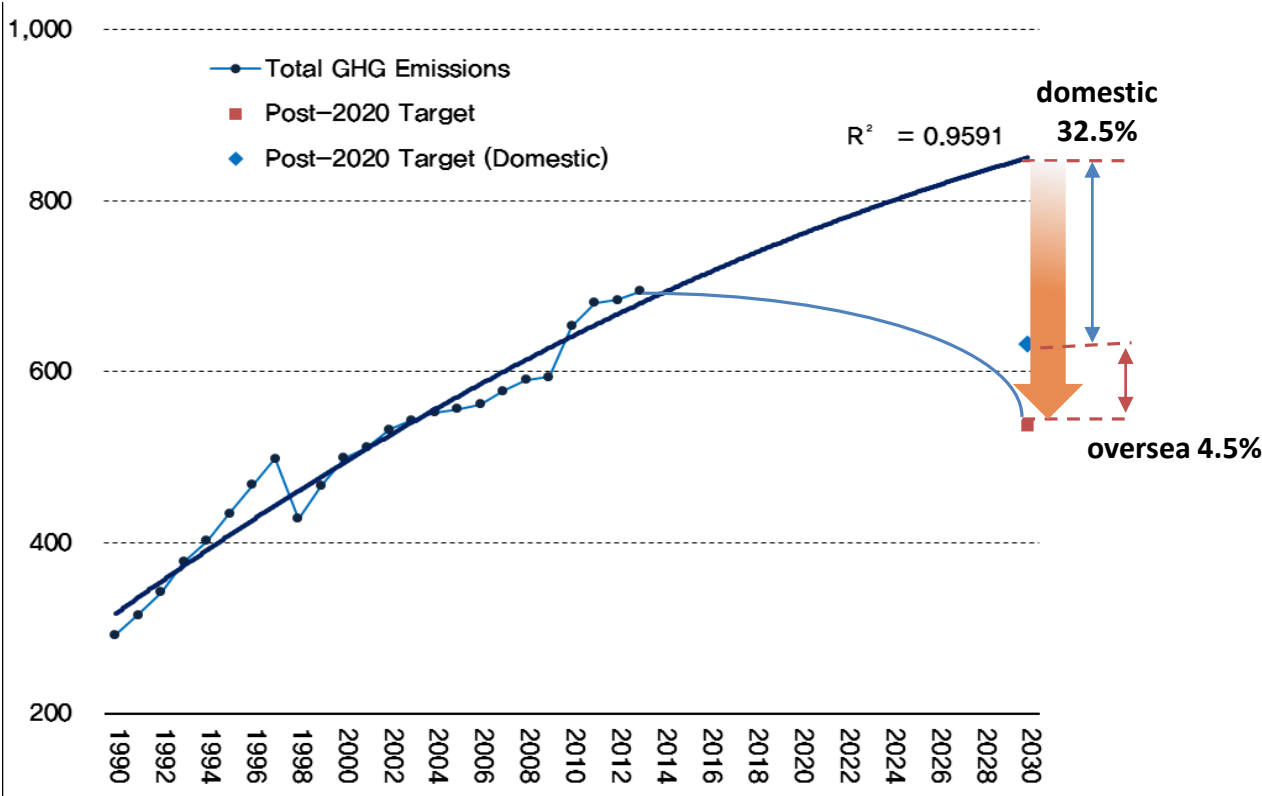


Ministry of Science and ICT





2030 Target of Reducing Greenhouse Gas Emissions



37% Reduction
(from BAU level)



GHG emission in Energy and Industrial processes in Korea

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Sector	1990	2000	2010	2012	2013	2014	Change between 1990 and 2014
	(million tons of CO ₂ eq.)						(%)
Energy	241.4	410.4	565.2	597.7	606.7	599.3	148.3%
Industrial Processes	19.7	49.6	54.0	51.7	52.0	54.6	177.3%
Agriculture	21.6	21.8	22.4	21.9	21.9	21.3	-1.5%
LULUCF	-34.1	-58.8	-54.3	-44.7	-42.8	-42.5	24.5%
Waste	10.4	18.9	15.1	15.8	16.0	15.4	47.8%
Total GHG Emissions ^{a)} (excluding LULUCF)	293.1	500.6	656.6	687.1	696.5	690.6	135.6%
Net GHG Emissions ^{b)} (including LULUCF)	259.0	441.8	602.3	642.4	653.8	648.1	150.2%

**To achieve the national reduction target,
Climate technology development and deployment is essential
especially in the Energy Sector**

Case of Korea: Climate Technology R&D investment



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National R&D budget for climate change responses in 2018

Carbon Resource
Utilization

Climate Change
Adaptation

Carbon Reduction

-> 838 million USD \$

Carbon capture
utilization and
storage (CCUS)

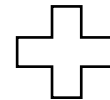
Solar Fuel Cell

Bio Energy

Fuel cell

Secondary
Batteries

Other related
items



Global Climate
Technology
Cooperation

Case of Korea: Facilitating private sector participation



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Support **private sectors, (especially SMEs)**

to promote their technologies, expand investment opportunities (in and out of the country), and network & communicate with other stakeholders

Climate Technology Cooperation Program (2017~2020), MSIT

- **Purpose:** Support **SMEs and Public institutions** to collaborate with partner countries in response to their demands and **initiate climate technology project opportunities**
- **Scope:** Identifying technology demands, Demonstration of climate technologies, Capacity building, Project development

Korea Climate Technology Exhibition (2017, 2018, and 2019), MSIT

- Support **climate technology holders** including **private(SMEs)** to **showcase their technology** and network with relevant stakeholders



Case of Korea: Facilitating private sector participation

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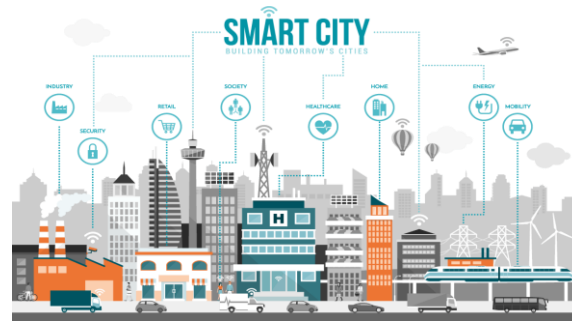
Korean NDEs have collaborated with CTCN on pro-bono Technical Assistance support to three partner countries in 2018

Federal Democratic Republic of Ethiopia



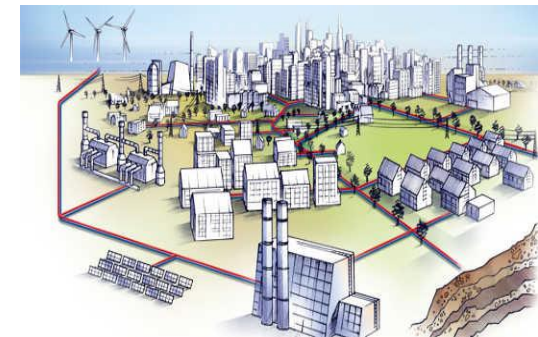
**Financing Strategy for
Transit Oriented Development**

Democratic Socialist Republic of Sri Lanka



**Development of Framework for
climate-smart City (adaptation)**

Republic of Serbia



**Incorporating renewable and
waste heat technologies to
District Heating**

**Motivate domestic experts in Private and Public sector
to participate in climate technology cooperation
for partner countries in response to their technology needs**



- Support to increase **cost-efficiency** of existing reduction tools to ease **market burdens towards SDGs**
- Develop **new options** with **innovative technologies** by incentives and regulations for private sector (R&D, incentive, regulation)
- Support to participation in **tech-based overseas reduction projects**

Creation of an enabling environment for the private sector
to **create and expand industries and investment**
for climate technology nationally and globally



Thank you
