AMS Analyses of I-129 in Arctic Ocean

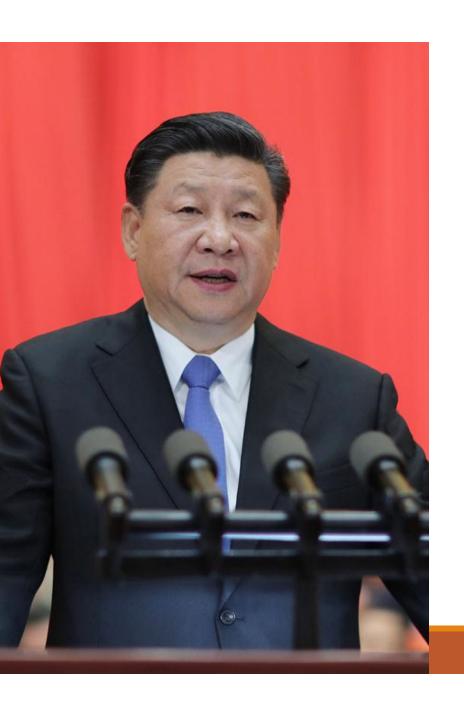
--National Perspective from China

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Climate Change

- Longer-term and profound challenge for mankind
- □ No country can be immune to it

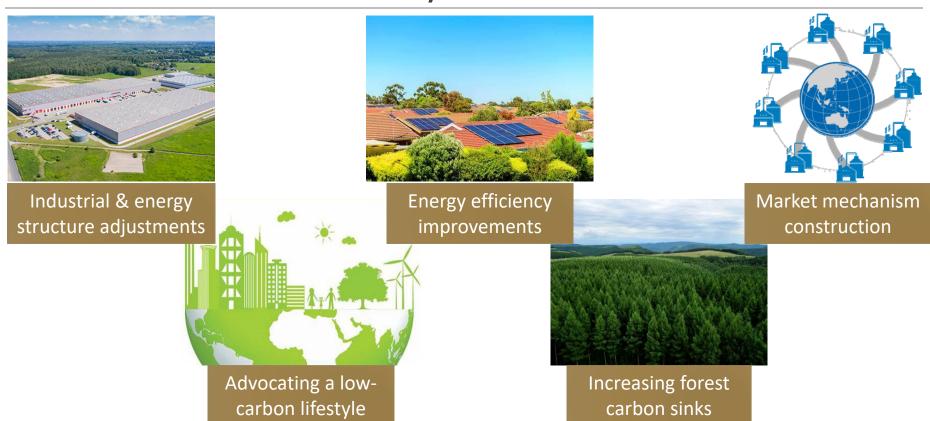




"Tackling climate change is the inherent need for China's sustainable development and the responsibility to promote the building of a community with a shared future for humans."

-- by General Secretary Xi Jinping

National Policies / Actions



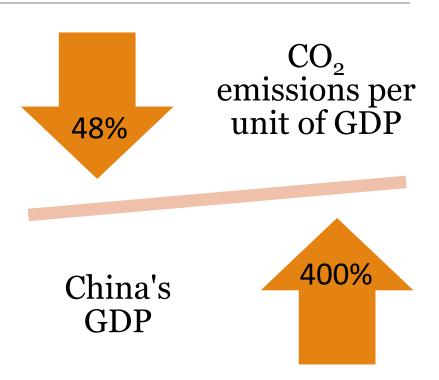
National Commitments

• Climate action target proposed in 2009:

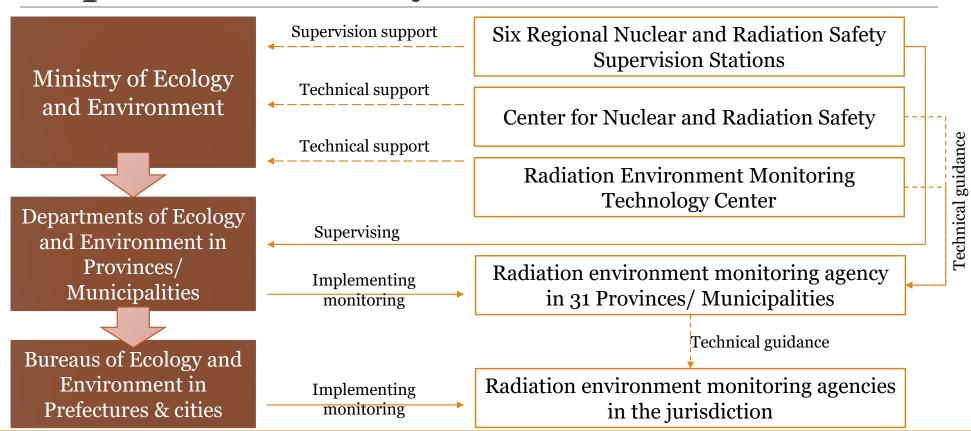
- By 2020, carbon emissions will be reduced by 40%-45% compared to 2005
- Completed ahead of schedule

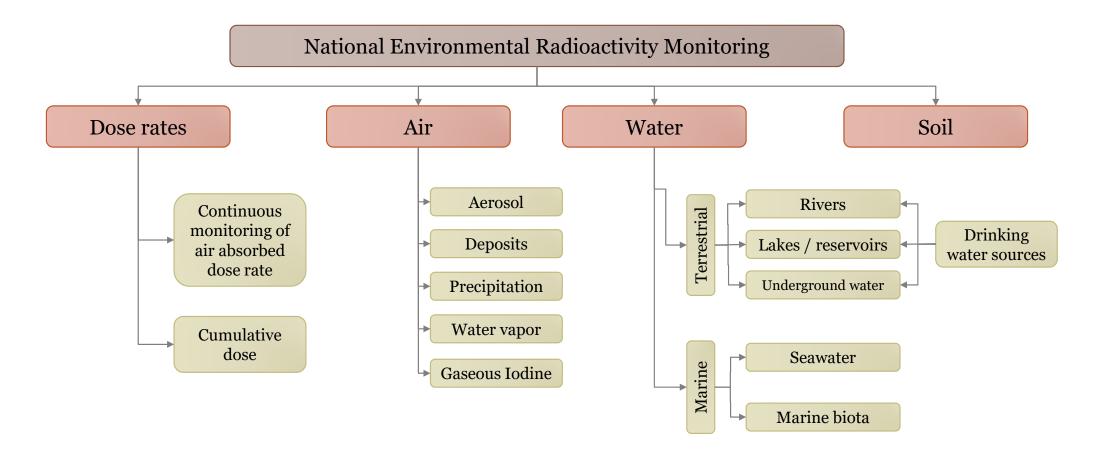
• New commitment made in 2020:

- To achieve the peak of carbon emissions by 2030
- To achieve carbon neutrality by 2060



Environmental Radioactivity Monitoring Implementation System in China





Data release



Real-time monitoring data release system (http://data.rmtc.org.cn:8080/gis/PubIndex.html#)



Annual Reports of the National Radiation Environment

Collaboration with IAEA



IAEA/RCA Regional Training Course 2013 on Radioanalysis of environmental samples



IAEA/RCA Regional Training Course 2019 and technical visit to Radiation Monitoring Technology Center

AMS systems in China

No.	Institute	City	Туре
1	China Institute of Atomic Energy	Beijing	2 x 13 MV
2	China Institute of Atomic Energy	Beijing	150 kV
3	China Institute of Atomic Energy	Beijing	2 x 350 kV
4	China Institute of Atomic Energy	Beijing	2 x 350 kV
5	China Institute for Radiation Protection	Taiyuan	2 x 300 kV
6	Peking University	Beijing	2 x 6 MV
7	Peking University	Beijing	2 x 0.5 MV
8	Beijing Normal University	Beijing	2 x 1 MV
9	Institute of Earth Environment, CAS	Xian	2 x 3 MV
10	Institute of Earth Environment, CAS	Xian	2 x 200 kV
11	Institute of Grochemistry, CAS	Guangzhou	2 x 0.5 MV
12	Institute of Hydrogeology and Environmental Geology, CGS	Shijiazhuang	2 x 1 MV
13	Tianjin University	Tianjin	2 x 0.5 MV
14	Guangxi University	Nanning	150 kV
15	Nanjing University	Nanjing	2 x 200 kV
16	Lanzhou University	Lanzhou	2 x 200 kV
17	Qingdao	Qingdao	2 x 200 kV
18	Qingdao	Qingdao	2. 0.5 MV
19	Institute of Geochemistry, CAS	Guiyang	2 x 1MV
20	Henan University	Kaifeng	2 x 200 KV

Another 5 AMS systems are under construction: China Academy of Engineering Physics, 404 Factory (CNNC), SINOPEC Institute, Sun Yat-sen University, Henan Provincial Institute of Cultural Heritage and Archaeology

Sampling and Analyzing

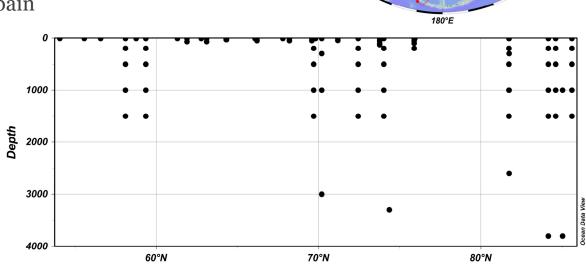
CHINARE Arctic-8 Cruise

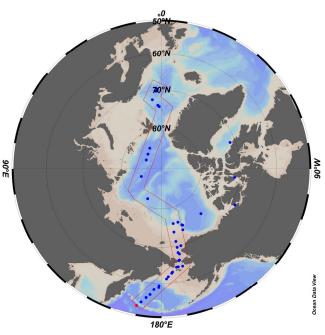
Jul – Oct 2017

52 stations, o-3800 m depth

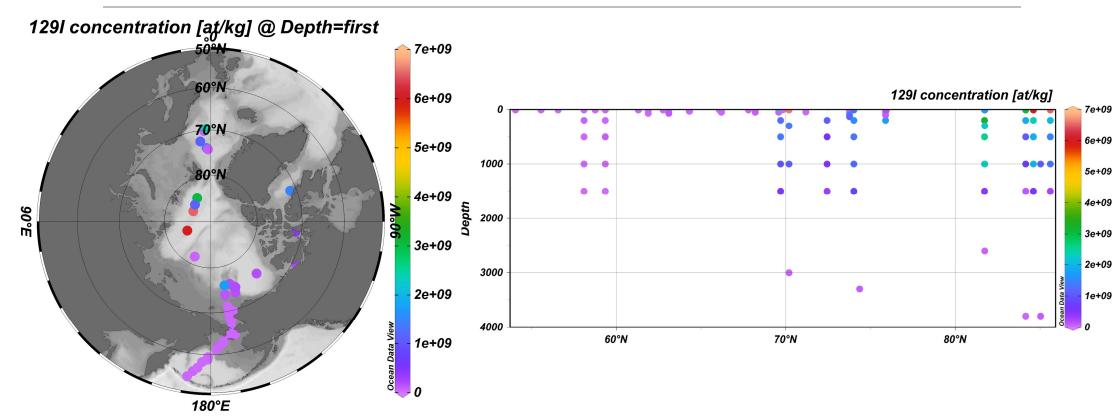
1 MV Tandem AMS in CNS, Seville Univ., Spain

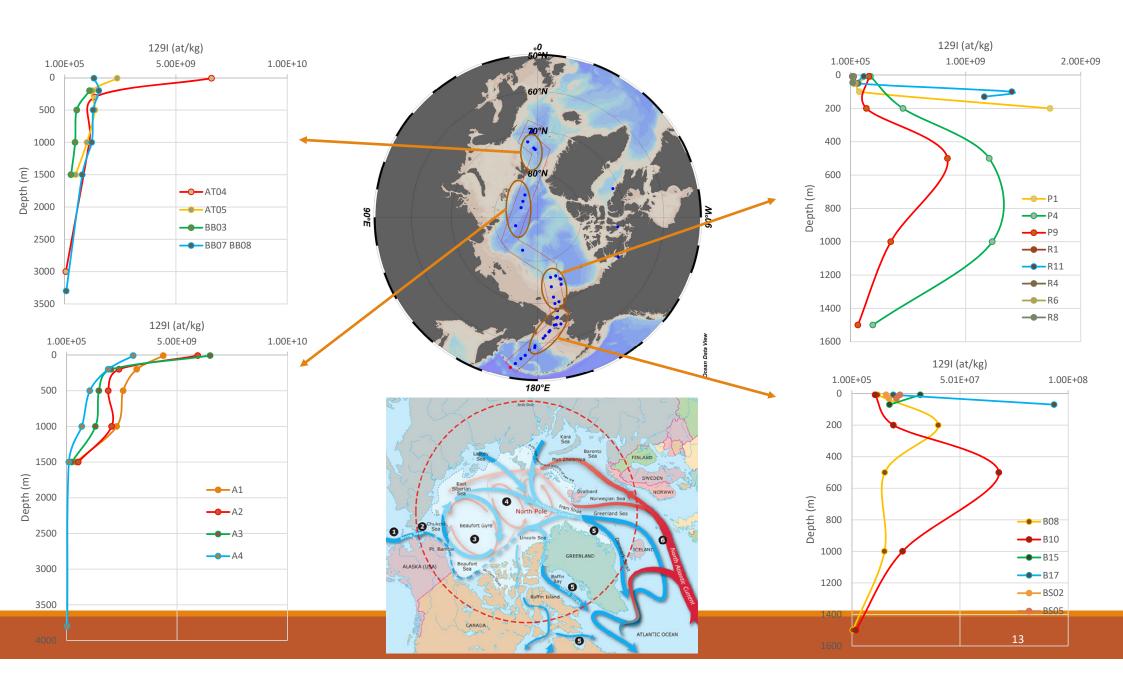






I-129 Distribution





I-129/Cs-137 Distribution

