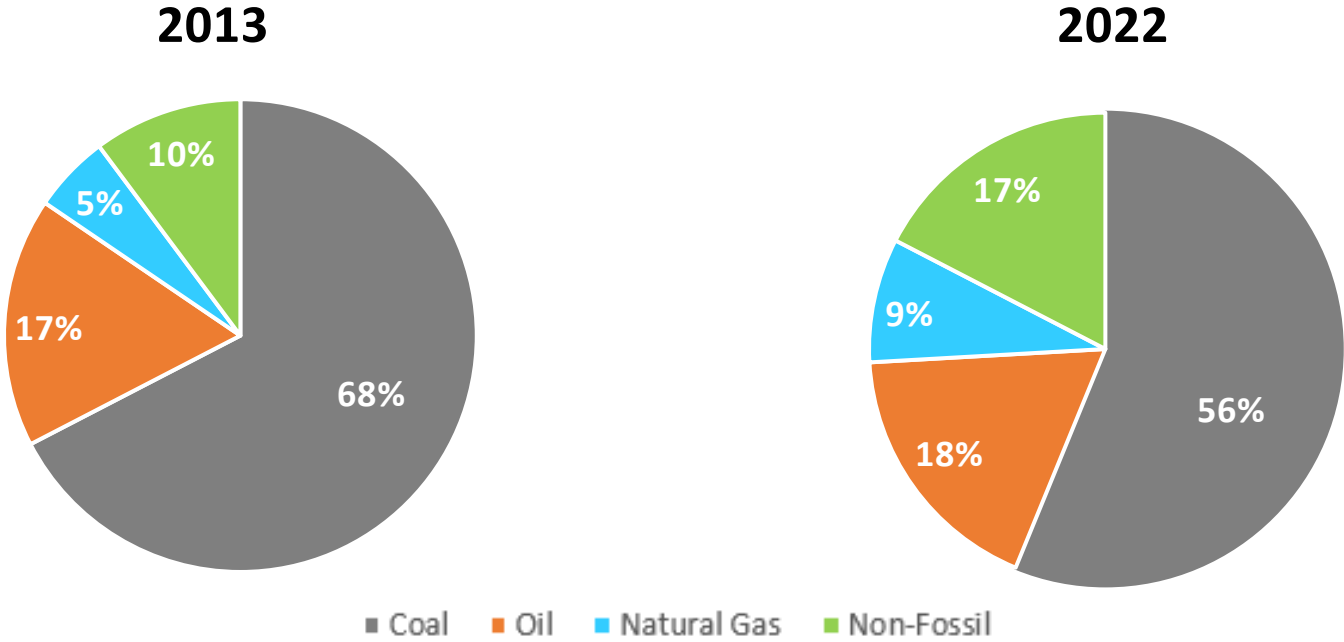


Accelerating China's Low-Carbon Transition

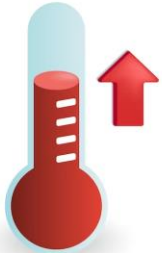
Hanling Yang, Senior Director, Energy Transition-Asia
Environmental Defense Fund
November 8, 2023

China Primary Energy Consumption Profile



Source: [China Energy Big Data Report \(2023\)](#)

Climate Impacts on China



0.24 °C /decade



3.3 mm/yr



240 km² /yr



US\$76 bn/yr

14th FYP and Climate Targets



↓ 18%

Carbon Intensity



↓ 13.5%

Energy Intensity



24.1%

Forest Coverage



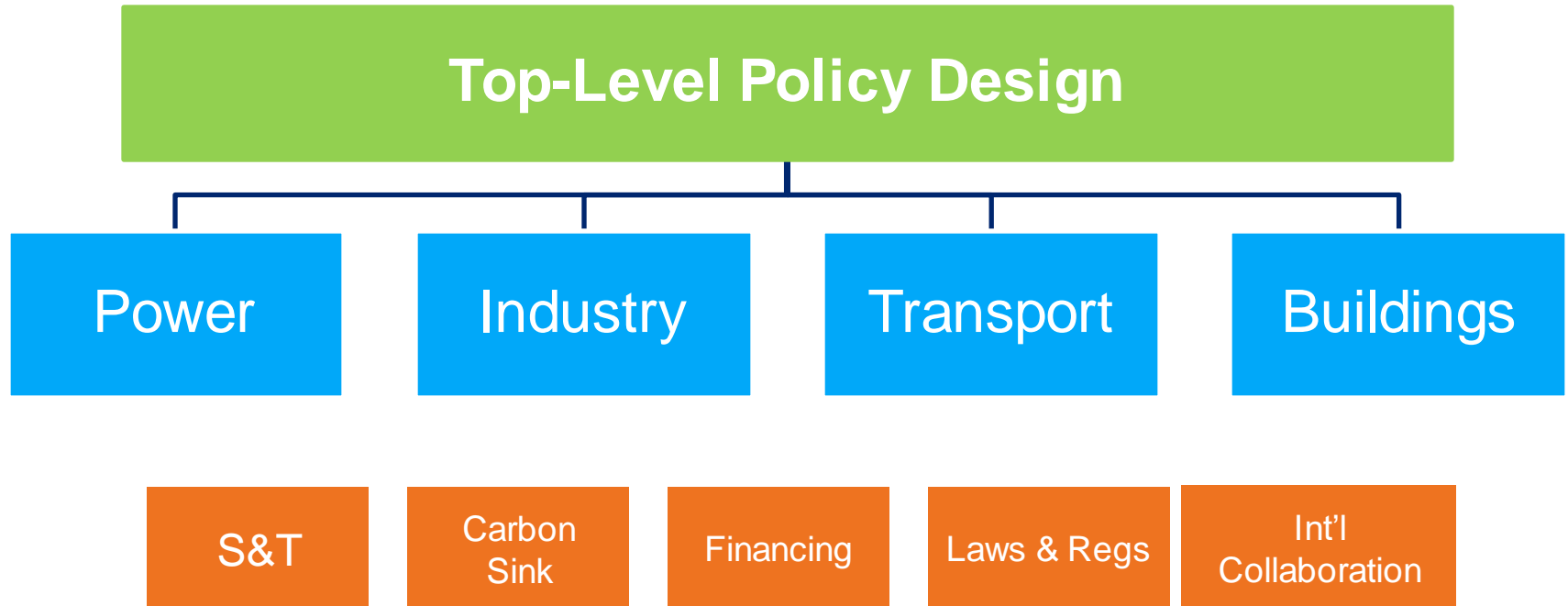
↑ 80%
↑ 20%

Non-fossil

3060 Twin Targets

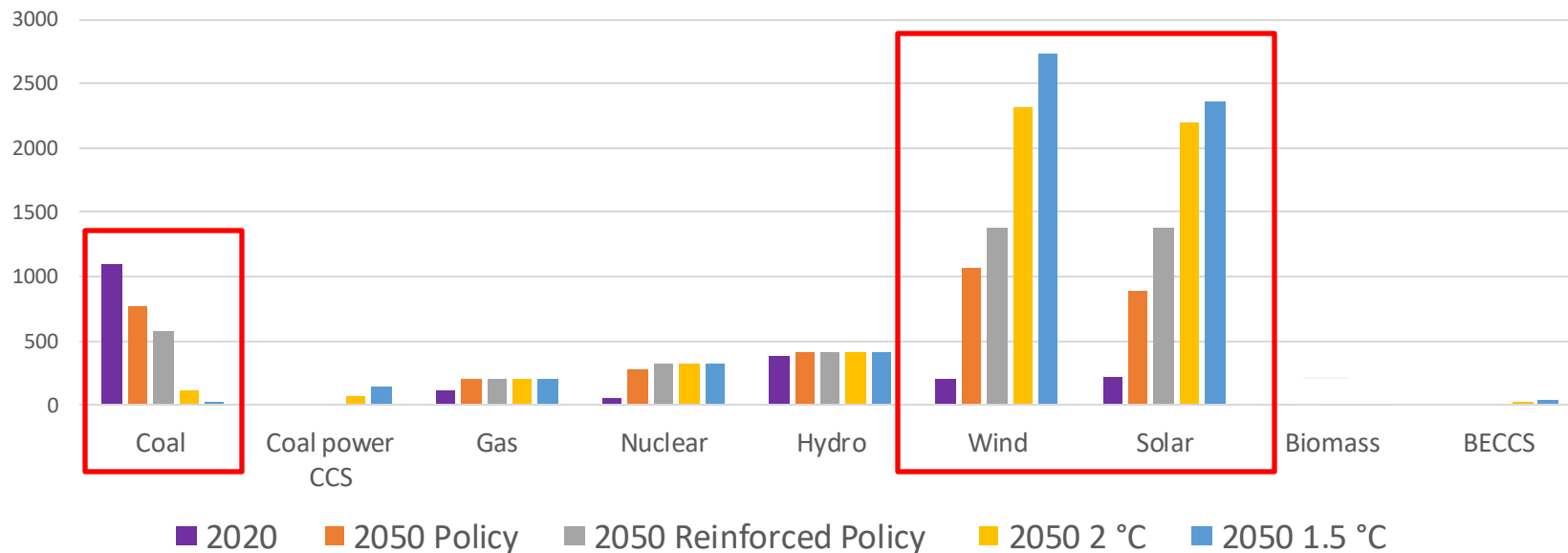


“1 + N” Framework



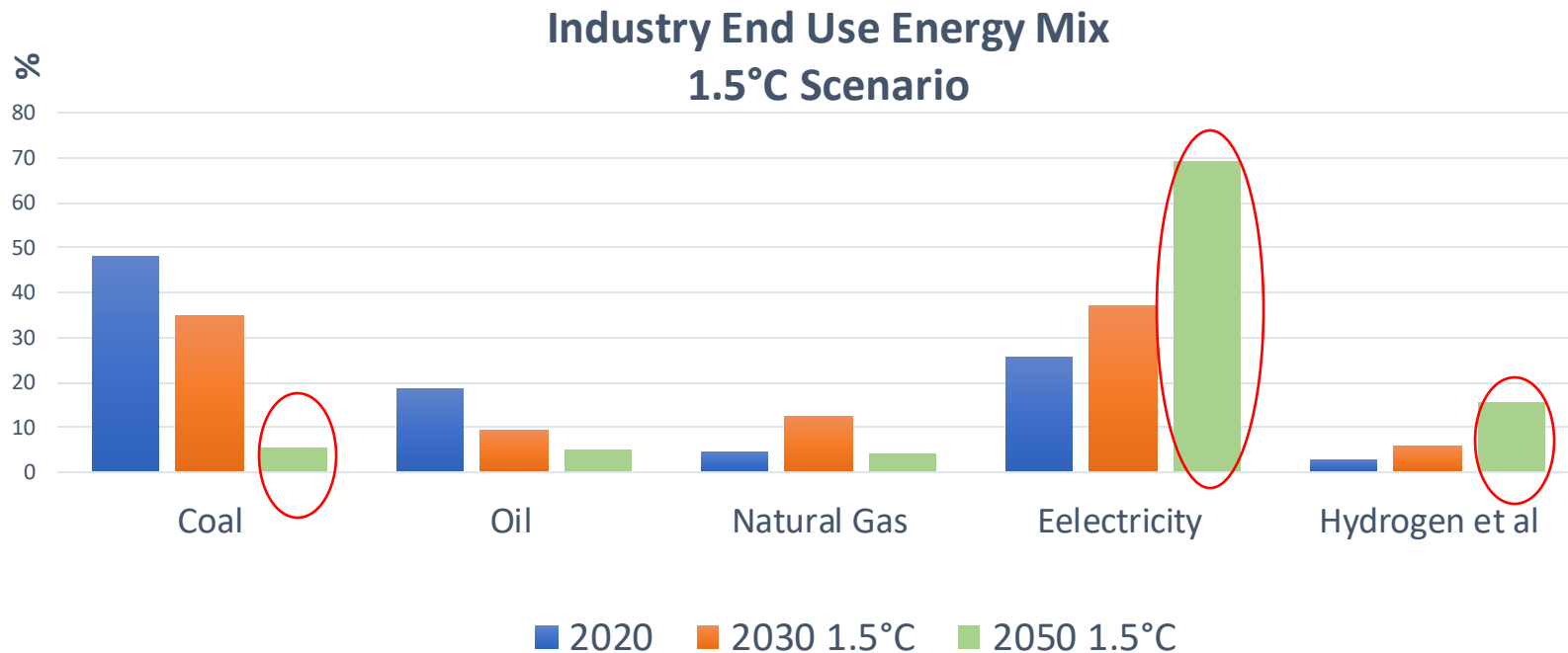
Power

Generation Fleet in 2050 under Different Scenarios (GW)



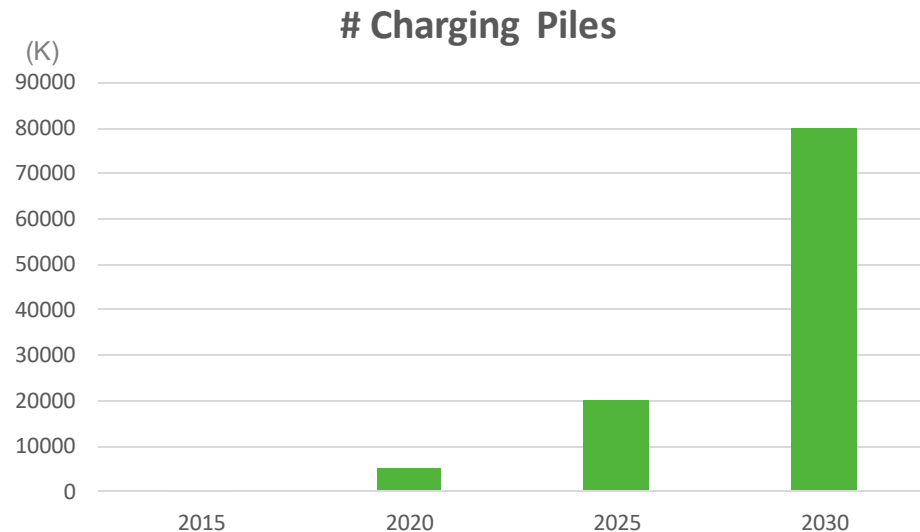
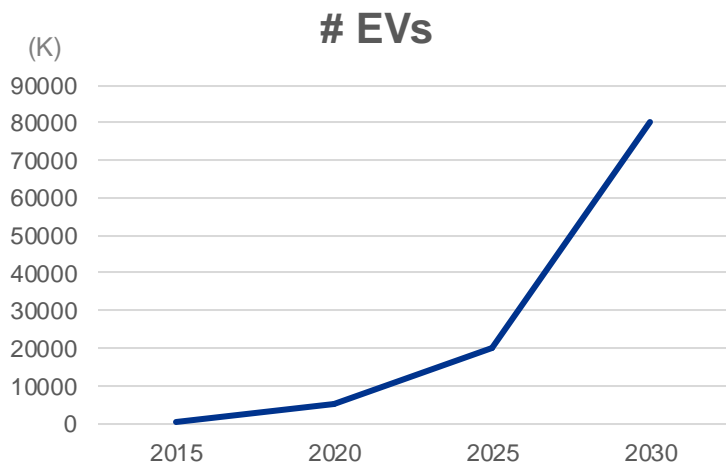
Sources: [China's Long-term Low-Carbon Development Strategies and Pathways Comprehensive Report](#) (2021), Tsinghua Univ

Industry



Sources: [China's Long-term Low-Carbon Development Strategies and Pathways Comprehensive Report](#) (2021), Tsinghua Univ

Transport

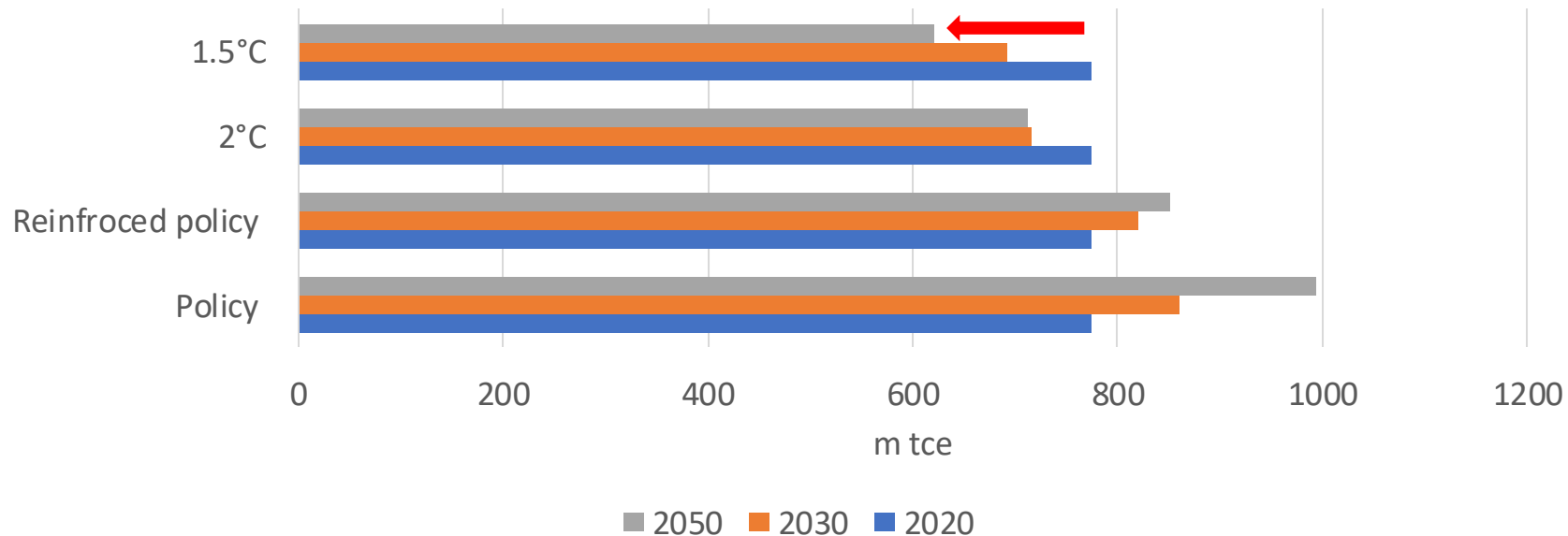


EVs	2015	2020	2025	2030
% in Total Sales	1.5%	7% - 10%	15%-20%	40% - 50%

Source: Methodology Development and Case Study of Electric Vehicle Development and the Impact on Energy, Environment and Resource in China (2019)

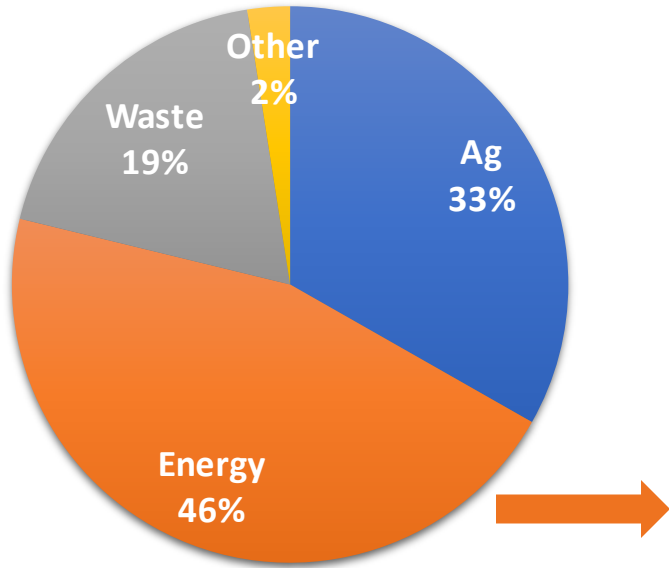
Buildings

Building Sector Energy Consumption Scenarios



Sources: [China's Long-term Low-Carbon Development Strategies and Pathways Comprehensive Report](#) (2021), Tsinghua Univ

Control of Non-CO2 GHGs: Methane Mitigation



Energy Sector	% Abatable	% at No Net Cost
Oil and Gas	80%	50%
Coal	60%	20%

Source: [IEA Methane Tracker 2023](#)

Note: Numbers rounded

China Methane Momentum and Opportunities

Voluntary Initiatives



中国油气企业甲烷控排联盟
CHINA OIL AND GAS METHANE ALLIANCE



China City Gas
Methane Initiative

Policy and Regulation

National Methane Action Plan

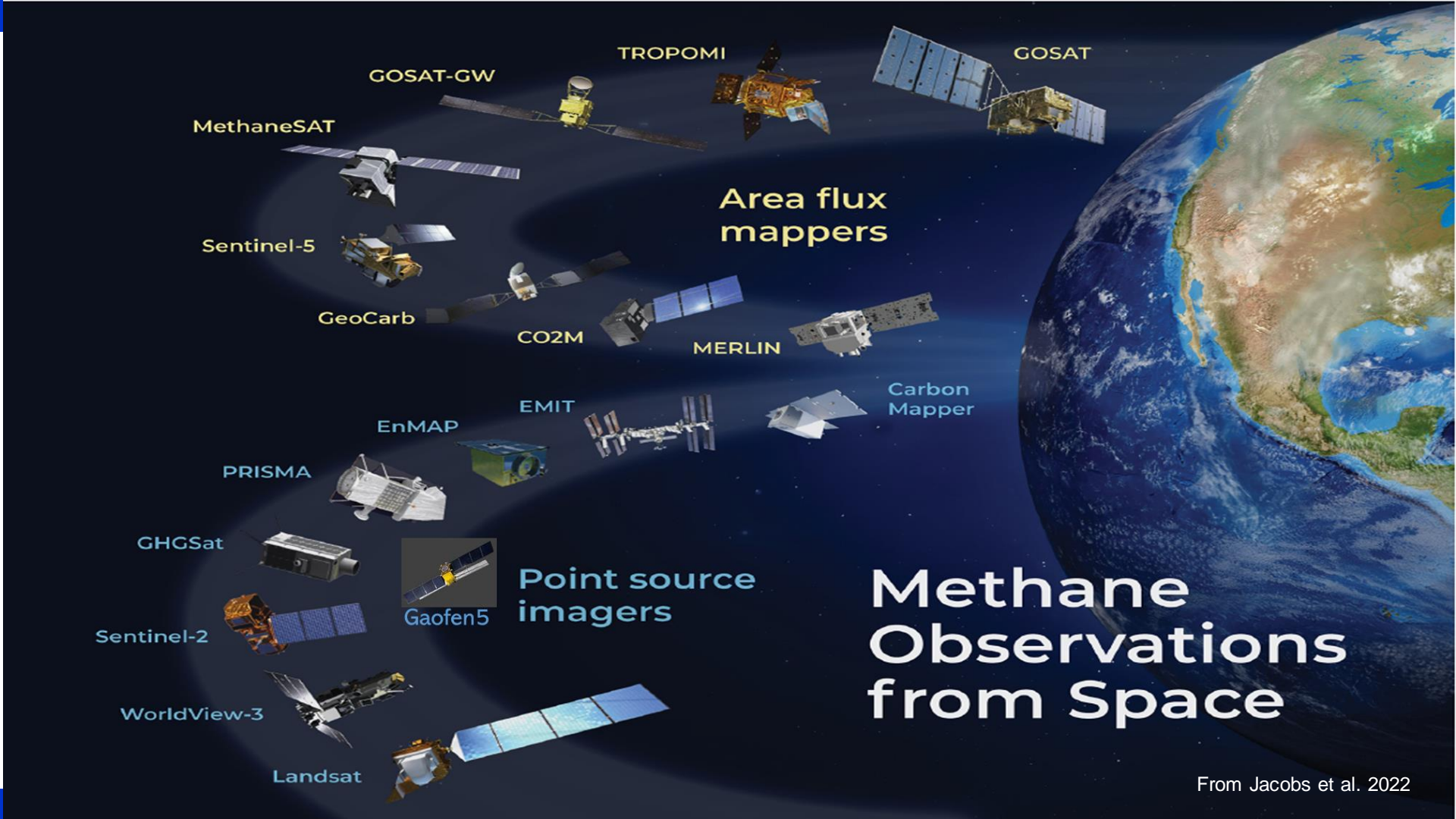
International Collaboration



Int'l Methane
Emissions Observatory
(IMEO)

Steel Methane Partnership

Methane Supply Chain Index



Area flux mappers

Methane Observations from Space

Point source imagers

GOSAT-GW

TROPOMI

GOSAT

MethaneSAT

Sentinel-5

GeoCarb

CO2M

MERLIN

Carbon Mapper

EnMAP

EMIT

PRISMA

GHGSat

Gaofen5

Sentinel-2

WorldView-3

Landsat

Thank you!