



About

These factsheets provide an overview of the most updated climate ambitions of 12 Asia-Pacific countries based on their second cycle (up to 2030) of nationally determined contributions (NDCs) under the [Paris Agreement](#). These 12 countries have submitted at least two updates of their NDC 2.0: Australia, Bangladesh, Indonesia, Japan, Pakistan, the Republic of Korea, Singapore, Sri Lanka, Thailand, The Marshall Islands, Vanuatu, and Viet Nam.

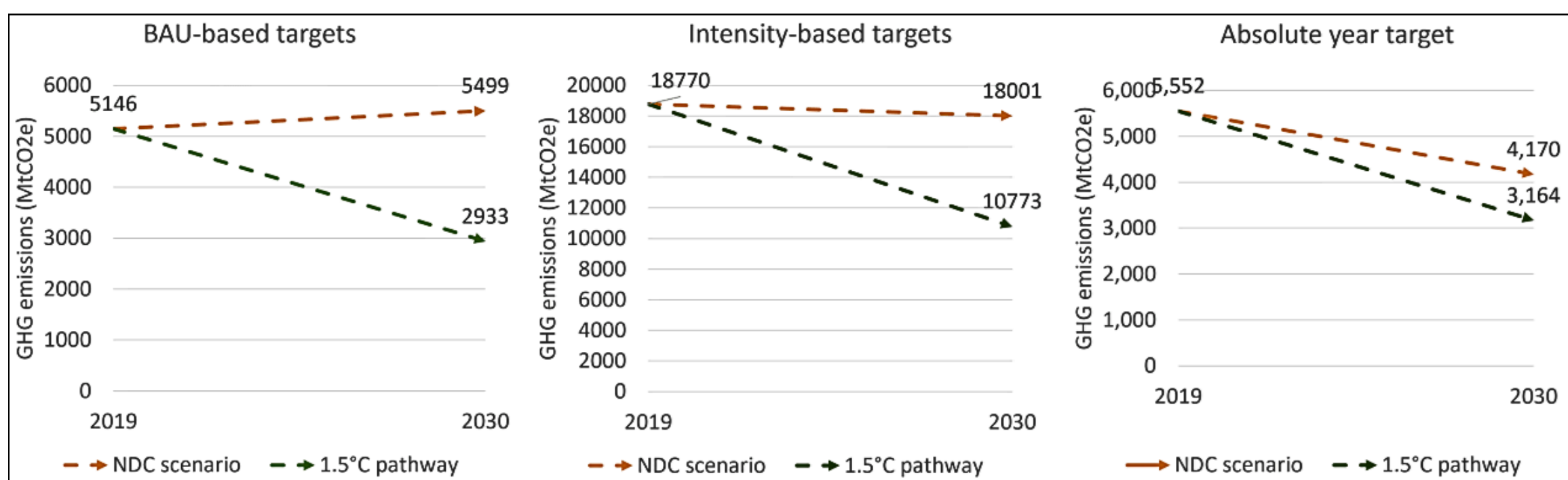
The factsheets review the country's NDC commitments for greenhouse gas (GHG) emission reductions by 2030, compared to the required emission reduction trajectories per the IPCC recommended levels within the 1.5-degree global warming pathway. The factsheets also review the gaps in GHG emission reductions for key sectors with the IPCC-recommended trajectories, based on the economic profiles of the 12 countries.

Background

The urgency of enhancing the climate mitigation ambition in the new cycle of NDCs (NDC 3.0) and better alignment with the recommended of GHG emission reduction trajectories cannot be overstated. The Asia and the Pacific region accounts for approximately 60% of global greenhouse gas (GHG) emissions with an annual growth rate of 2% on average since 2010.

The [“2024 Review of Climate Ambition in Asia and the Pacific: From Ambitions to Results: Sectoral Solutions and Integrated Action”](#) report highlights the Asia-Pacific region’s critical role in global climate mitigation. Seventeen countries, including China, India, and Japan, account for 97% of regional emissions. Despite a 9.3% increase in renewable energy capacity in key countries like China and India, emissions continue to rise and rapid urbanization, industrialization, and high fossil fuel dependence are driving these increases.

Setting up robust and effective emission reduction targets is an important foundation for the third round of nationally determined contributions (NDC 3.0) updates in 2025. The report underscores the urgency for Asia-Pacific countries to strengthen their 2025 NDCs, aligning with the IPCC’s 1.5°C pathway. At present, current NDC commitments fall short, and even full implementation would not halt rising emissions as the scenarios below and following factsheet demonstrate.



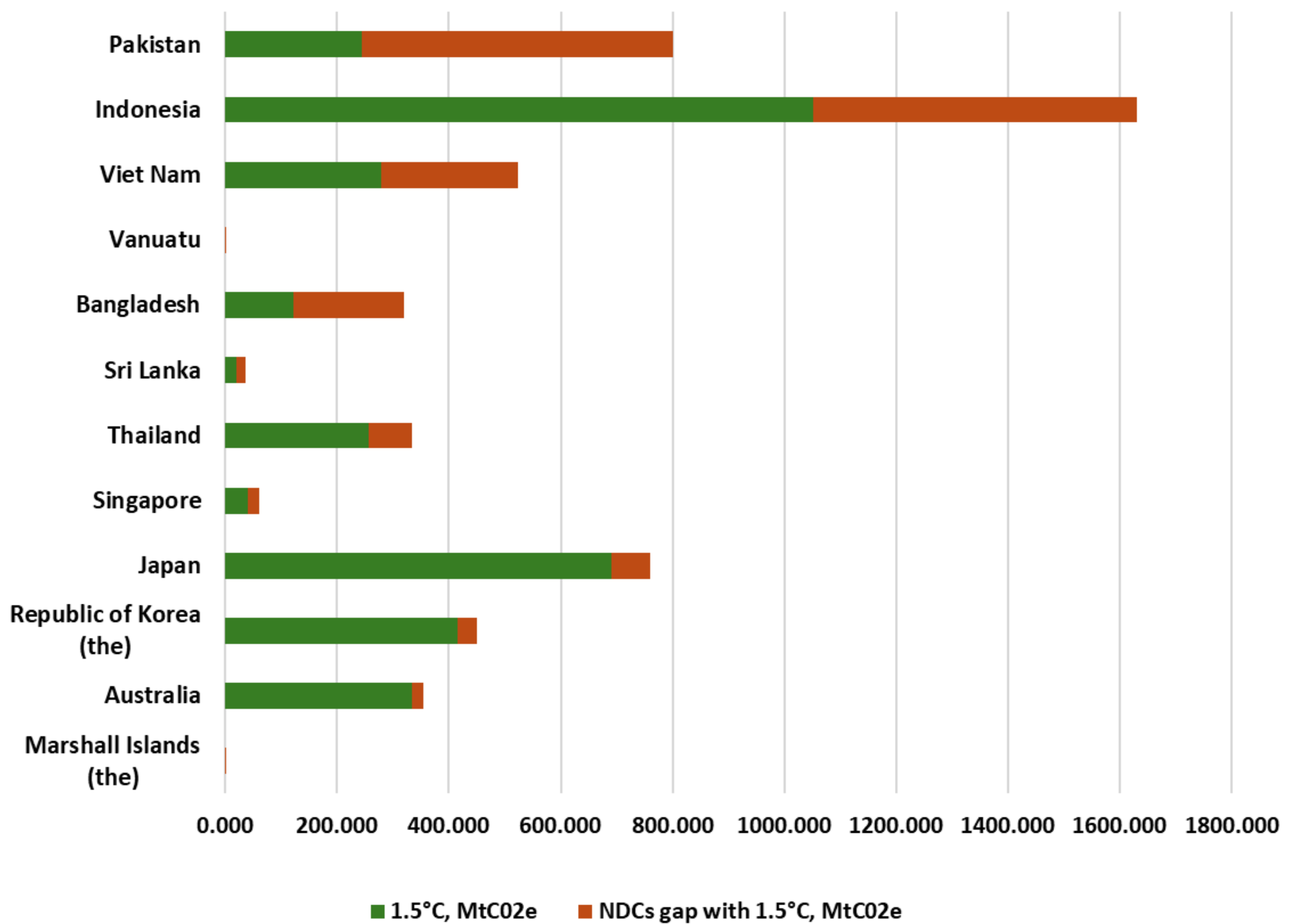
- Business as usual (BAU) reduction targets of 22 member States are expected to increase emissions by around 353 MtCO₂e by 2030.
- Six regional member states have chosen intensity targets that bring modest emission reductions by 2030 (around 769 MtCO₂e).
- Absolute reduction targets of 16 countries will lead to actual reductions of emission by 1,386 MtCO₂e (25%) from 5,552 MtCO₂e in 2019 to 4,170 MtCO₂e by 2030.

Source: ESCAP, UNEP (2024), available from: <https://www.unescap.org/kp/2024/climate-ambition-asia-pacific>.

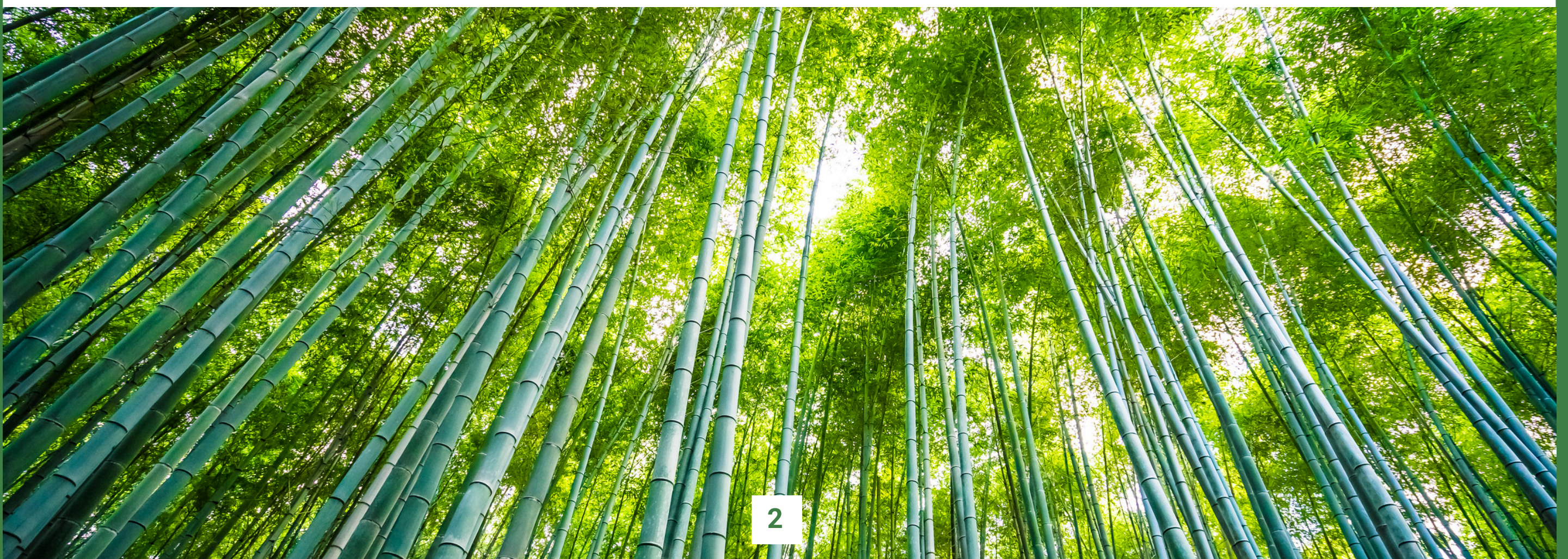


The 12 “front-runner” Asian-Pacific countries* demonstrate considerable gaps between their NDC 2.0 emissions reduction commitments and the IPCC-recommended emissions trajectories to realizing a 1.5°C pathway global warming pathway. The chart below demonstrates these gaps (all values shown are in MtCO₂ e).

Gaps between the NDC commitments and the required emissions to deliver on a 1.5°C pathway (2030)



*The 12 “front-runner” countries in the Asia-Pacific are those that have made at least two NDC 2.0 updates.





FACT SHEET

NDC 2.0 Ambitions: Indonesia



Country Overview



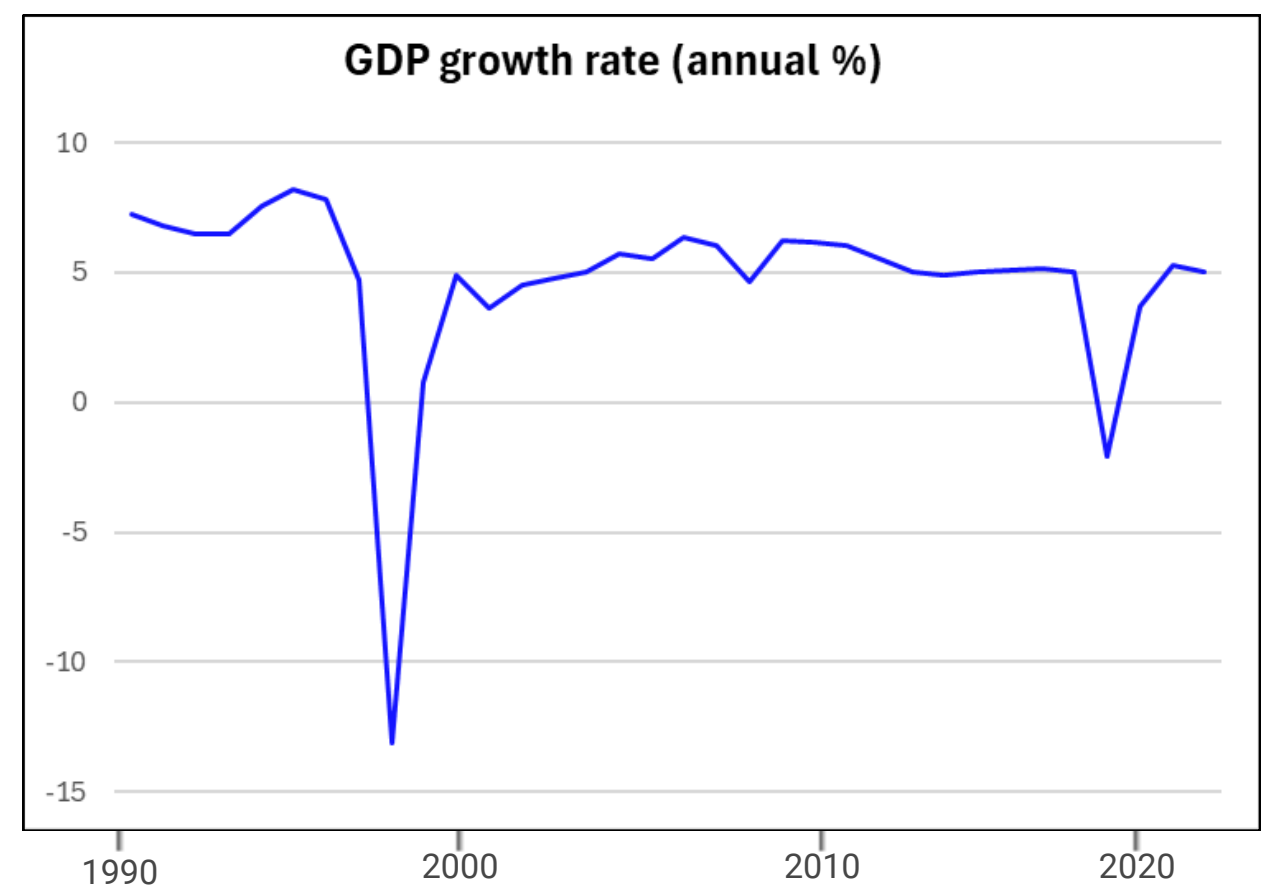
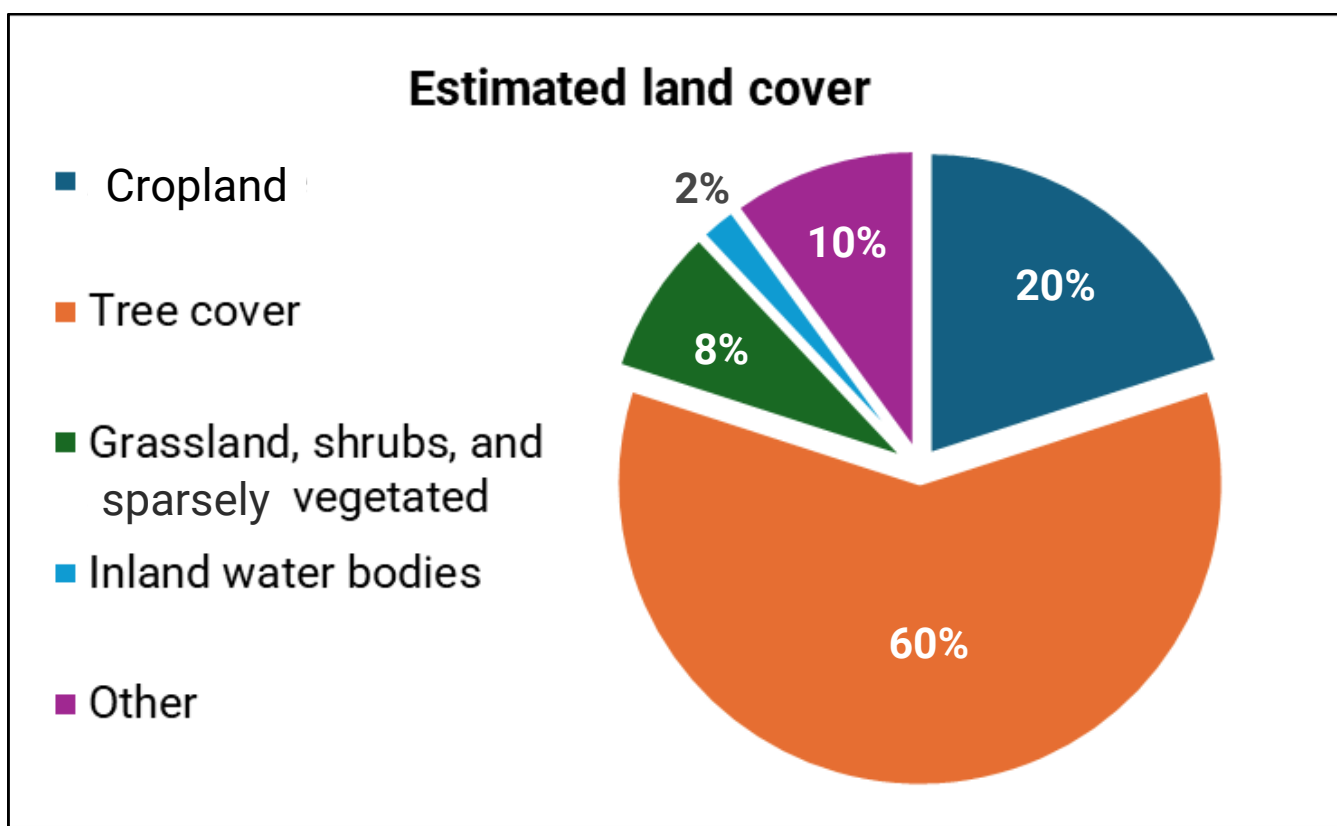
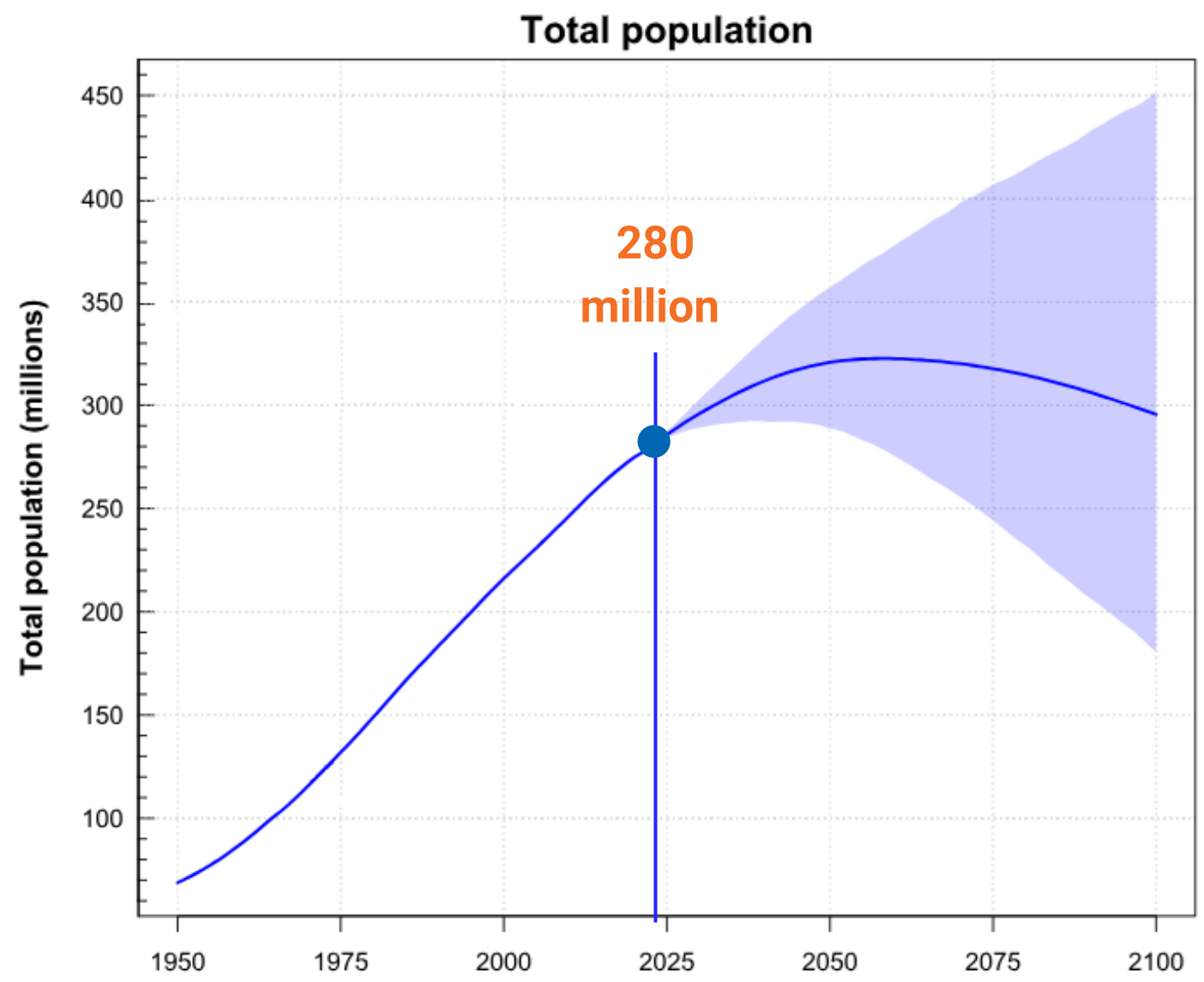
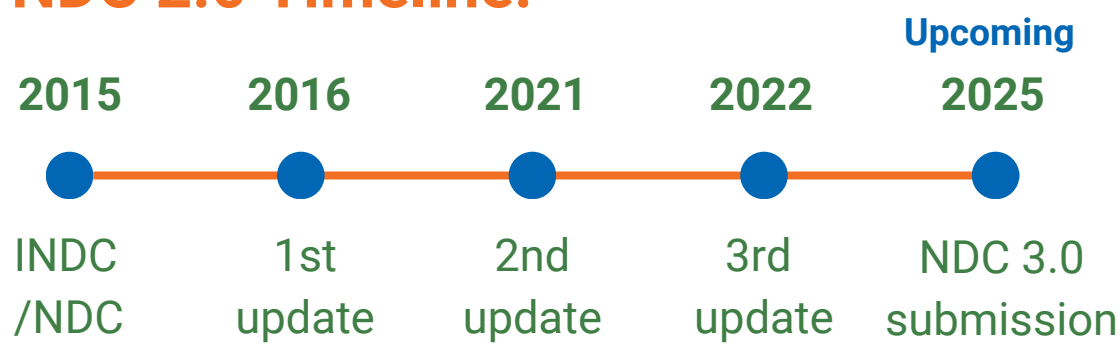
Size: 1,892,410 square km

Subregion: Southeast Asia

Population: 280 million

Gross Domestic Product (GDP): US\$ 1.371 trillion (2023)

NDC 2.0 Timeline:



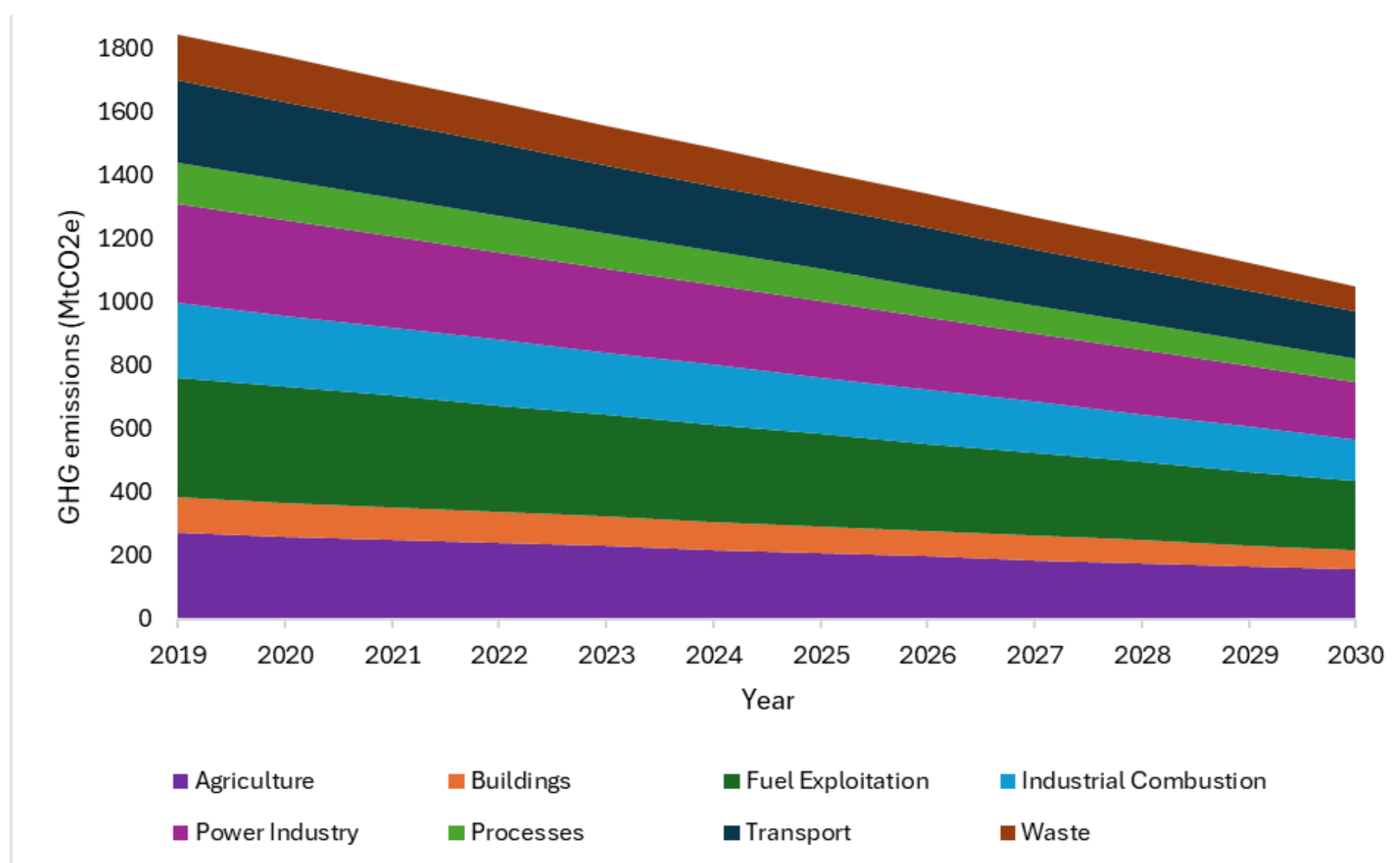
NDC 2.0 Ambitions (projected emissions, 2030)

Total emissions for a 1.5° C pathway: 1,051.71 MtCO₂e

NDC 2.0 commitment, total emissions: 1,629.59 MtCO₂e

35% Gap

Sectoral emissions consistent with recommended 43% reduction target*

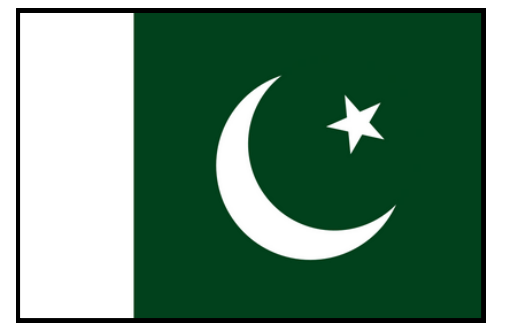


*To keep within the 1.5°C global warming goal, the IPCC recommends cutting emissions by 43% by 2030 (against a 2019 baseline), reaching a 60% reduction by 2035 compared to 2019 levels.



FACT SHEET

NDC 2.0 Ambitions: Pakistan



Country Overview



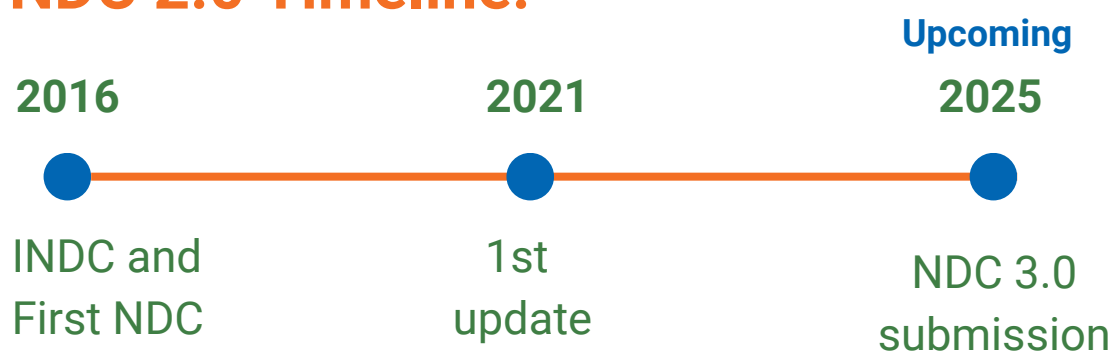
Size: 796,096 square km

Subregion: South Asia

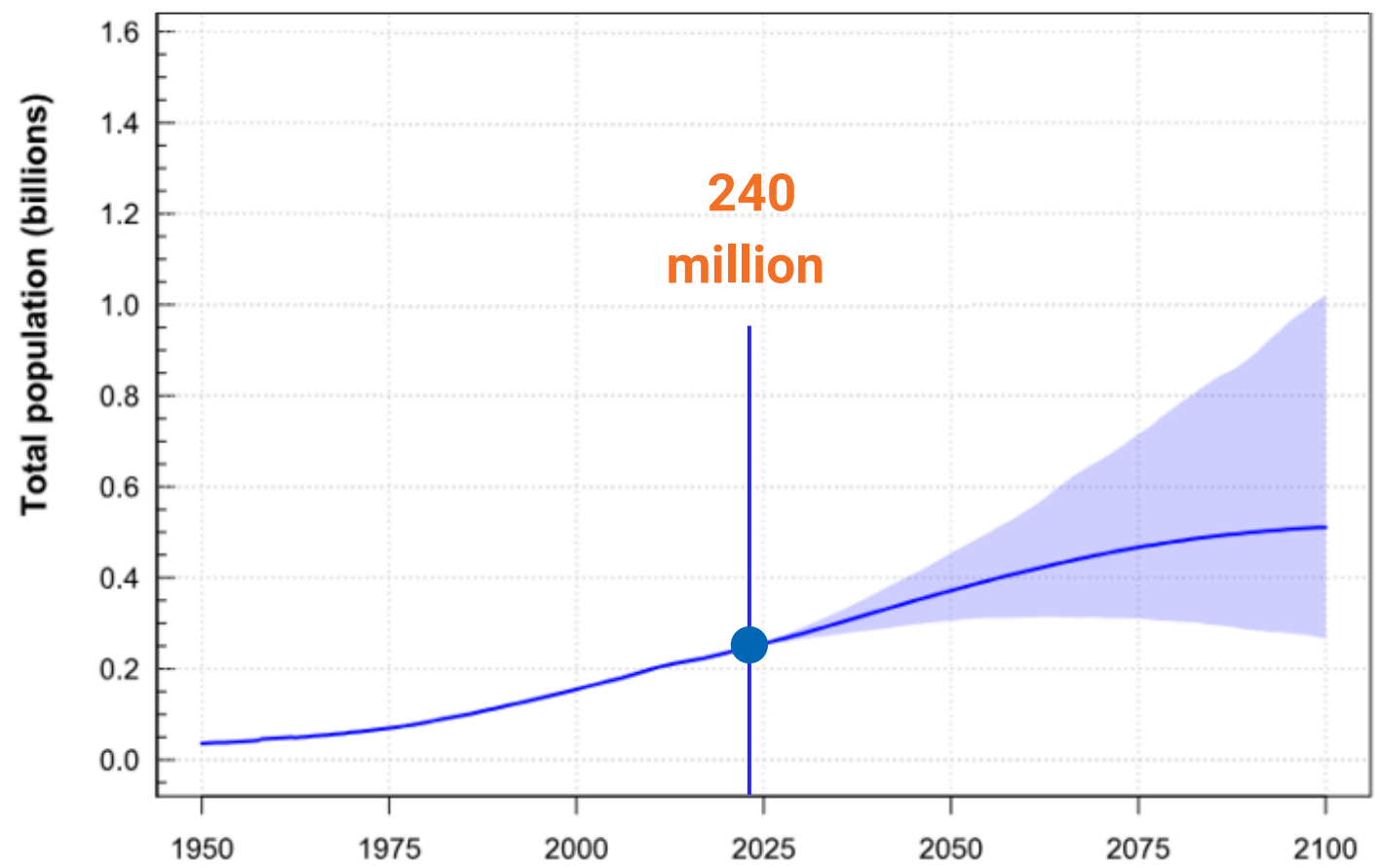
Population: 240 million

Gross Domestic Product (GDP): US\$ 338 billion (2023)

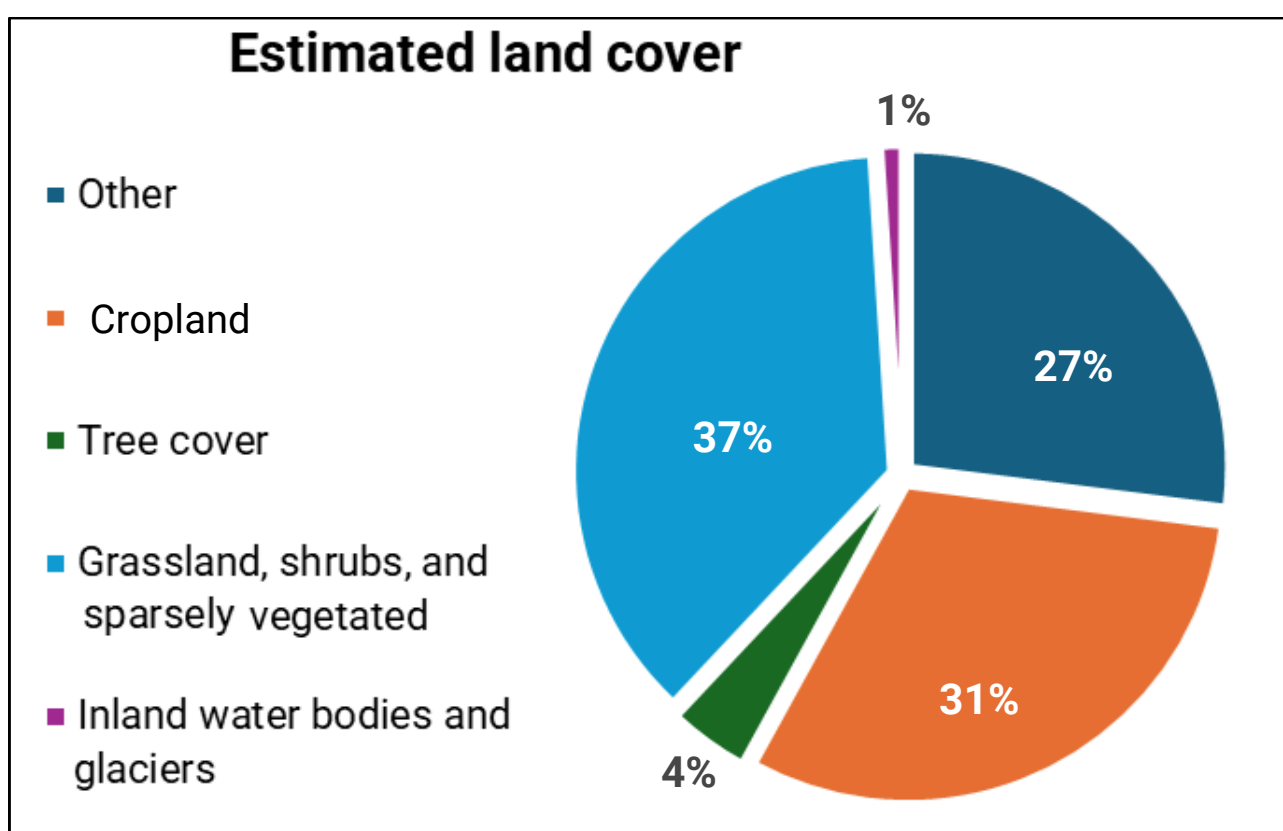
NDC 2.0 Timeline:



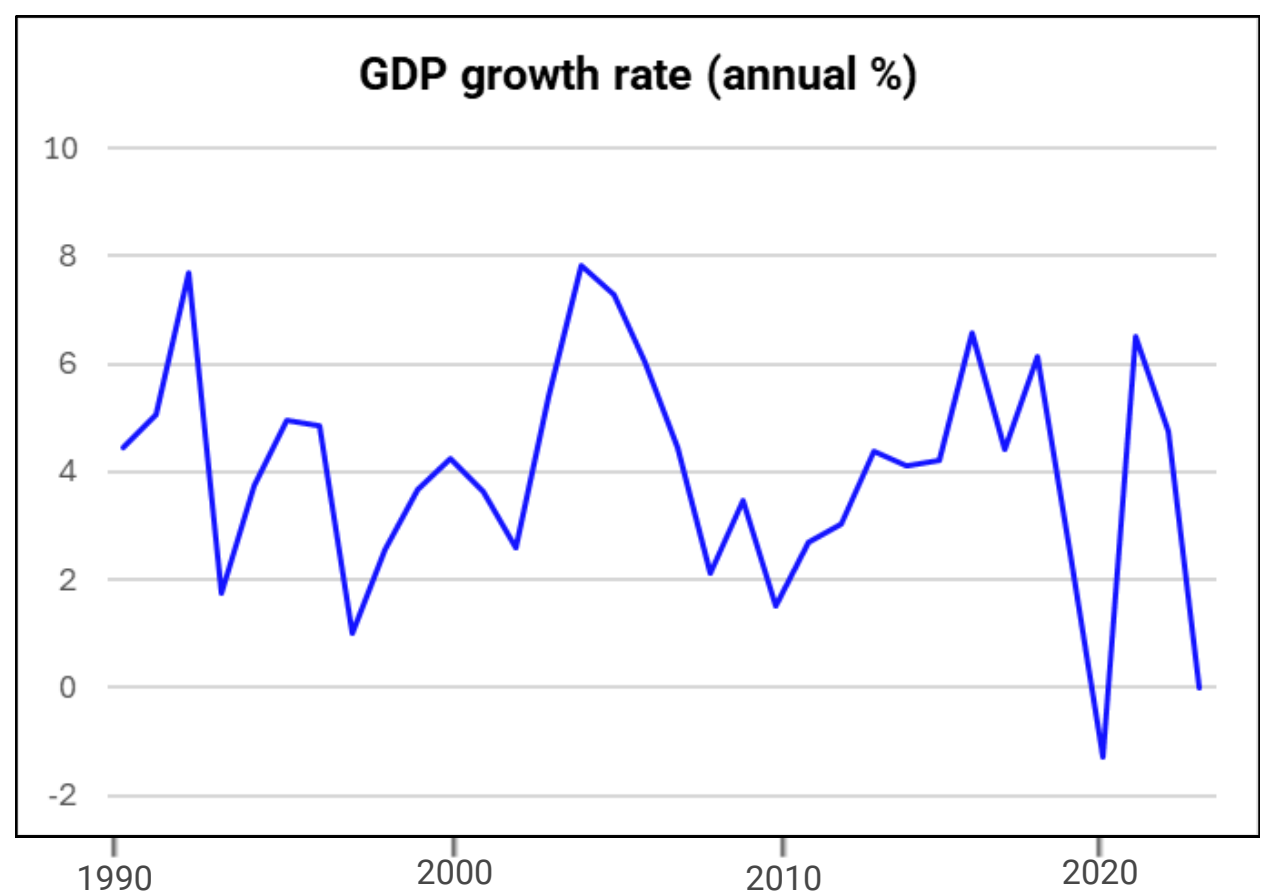
Total population



Estimated land cover



GDP growth rate (annual %)



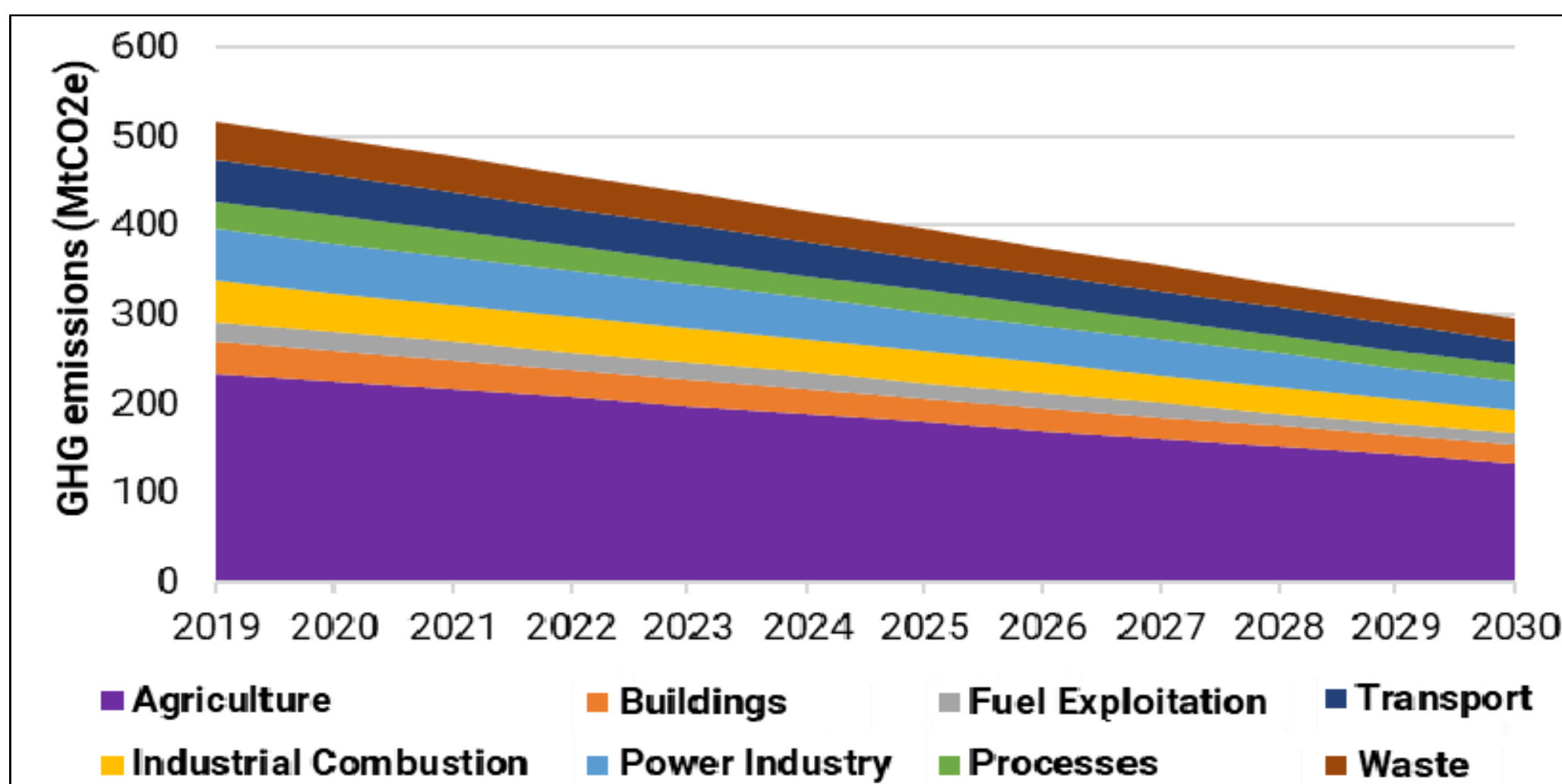
NDC 2.0 Ambitions (projected emissions, 2030)

Total emissions for a 1.5° C pathway: 294.75 MtCO₂e

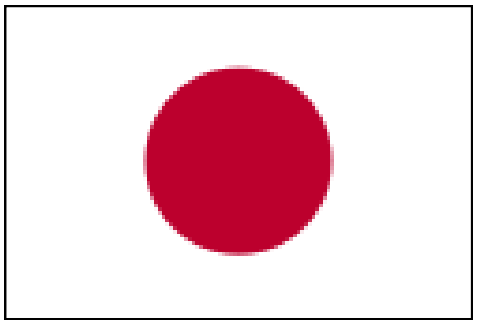
NDC 2.0 commitment, total emissions: 801.5 MtCO₂e

63% Gap

Sectoral emissions consistent with recommended 43% reduction target*



*To keep within the 1.5°C global warming goal, the IPCC recommends cutting emissions by 43% by 2030 (against a 2019 baseline), reaching a 60% reduction by 2035 compared to 2019 levels.



Country Overview



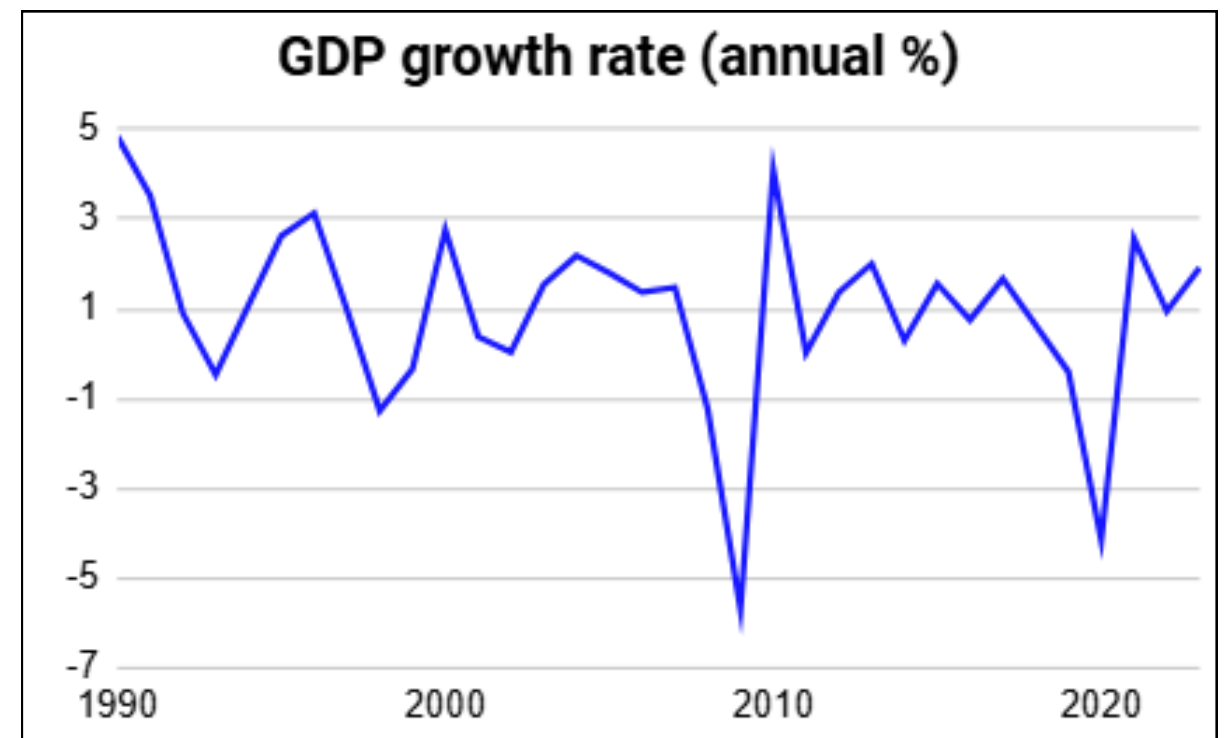
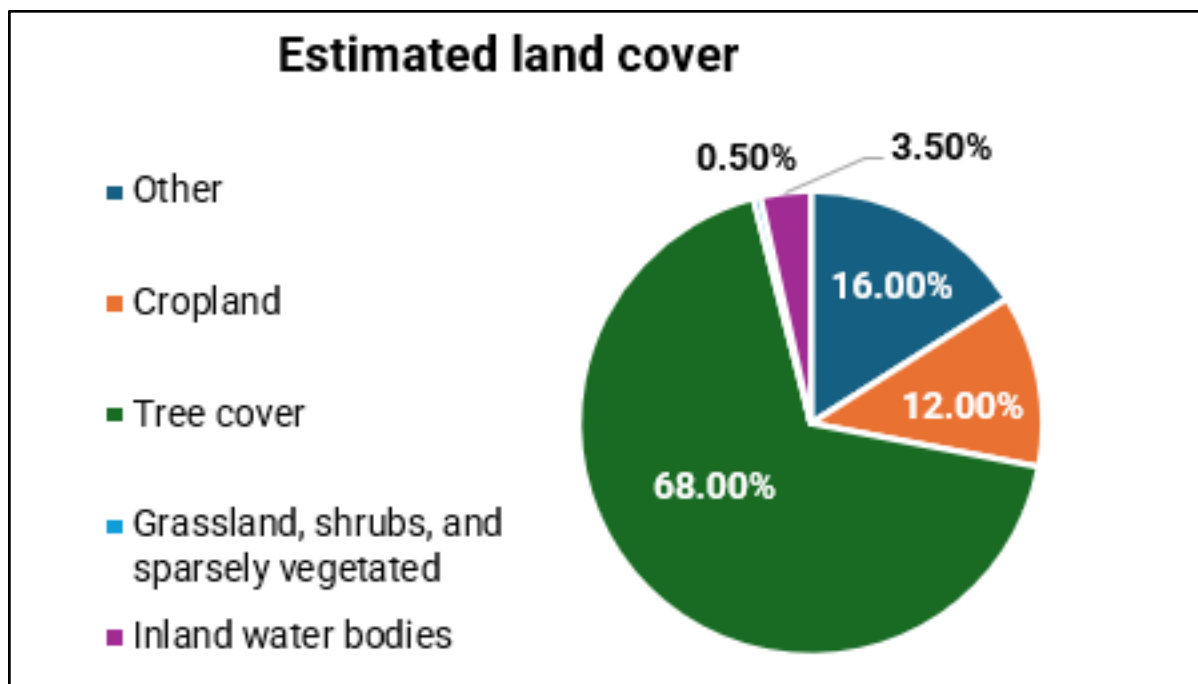
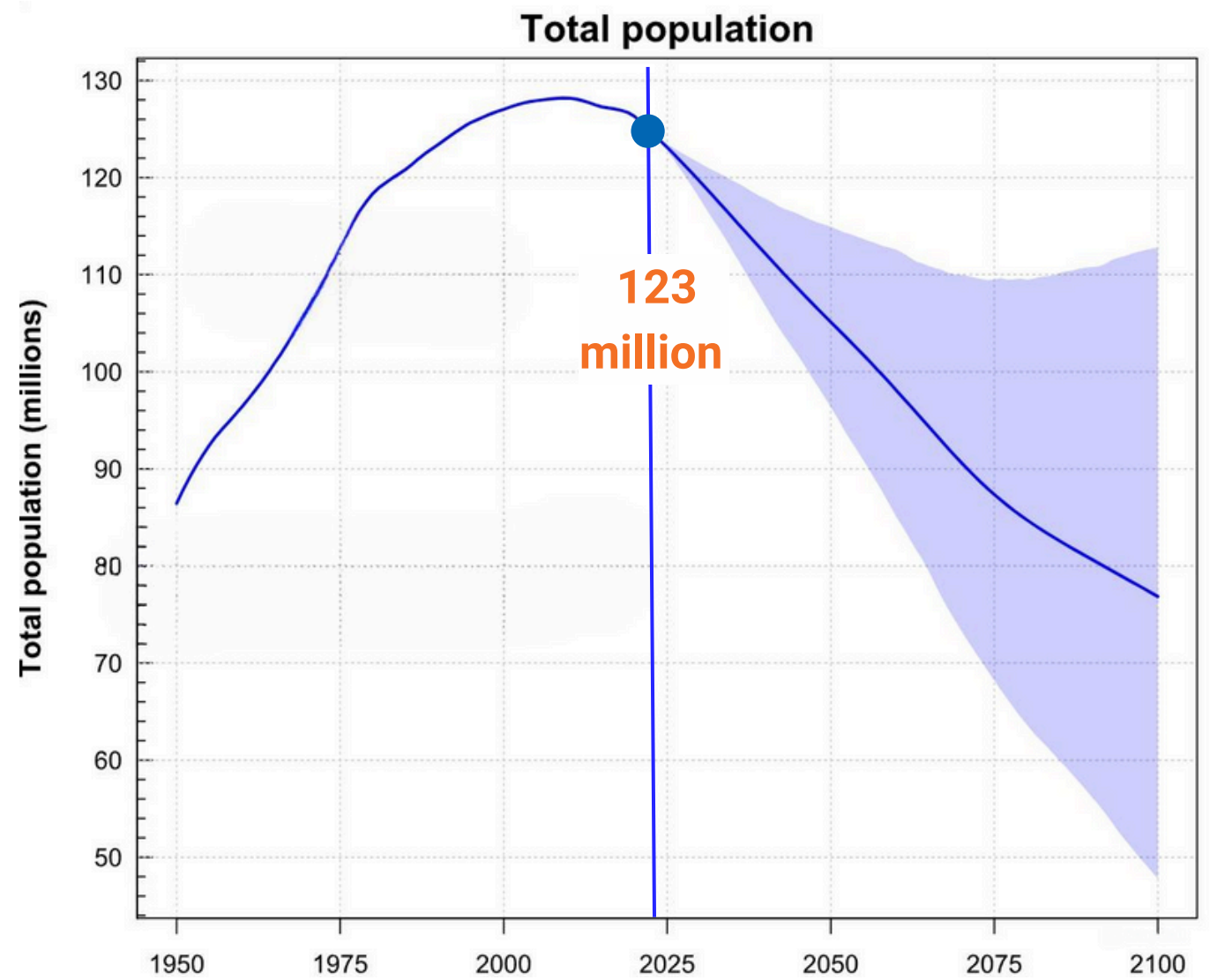
Size: 377,969 square km

Subregion: East Asia

Population: 123 million

Gross Domestic Product (GDP):
US\$ 4.212 trillion (2023)

NDC 2.0 Timeline:



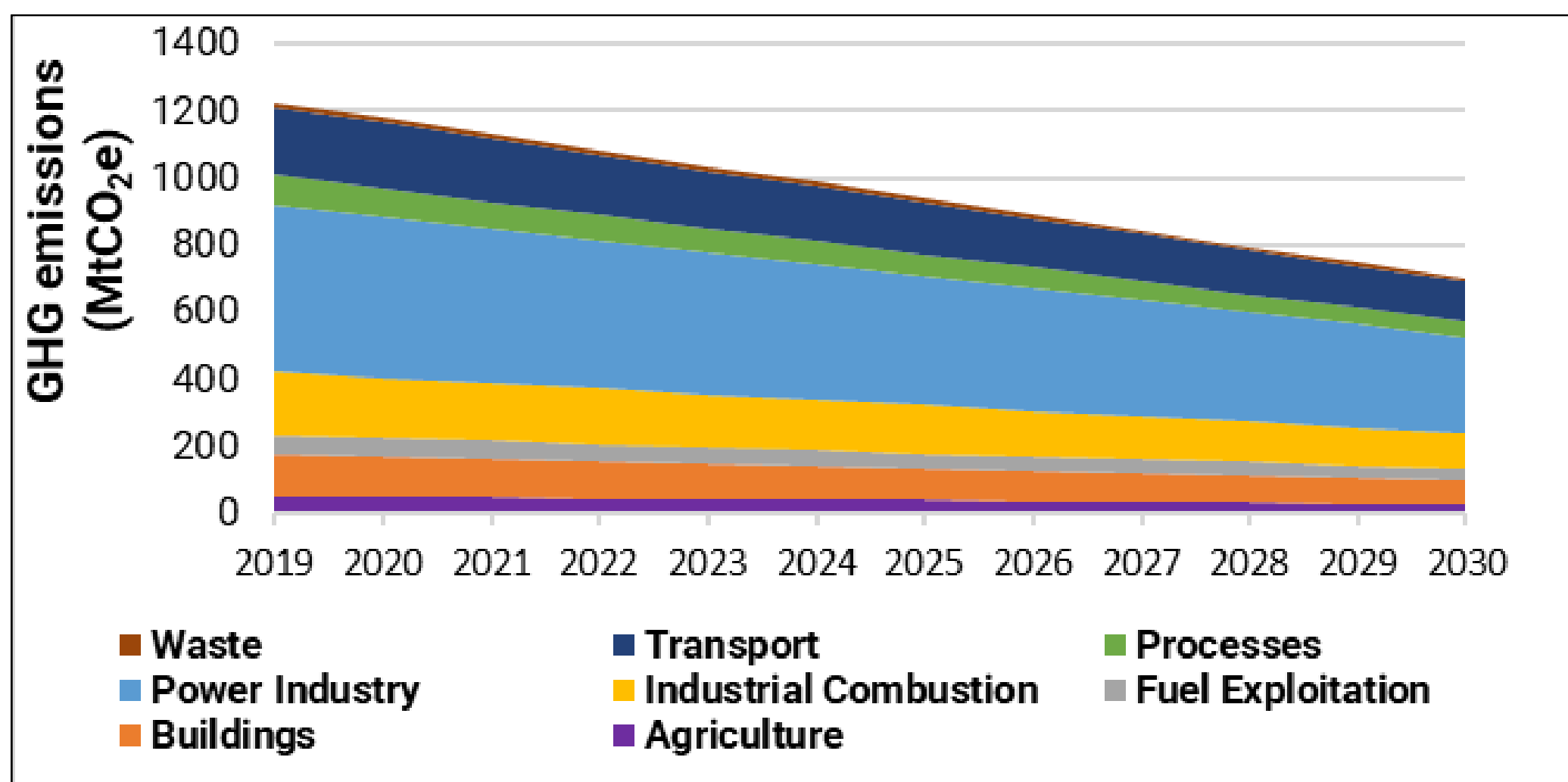
NDC 2.0 Ambitions (projected emissions, 2030)

Total emissions for a 1.5° C pathway: 690.84 MtCO₂e

NDC 2.0 commitment, total emissions: 760.32 MtCO₂e

9% Gap

Sectoral emissions consistent with recommended 43% reduction target*

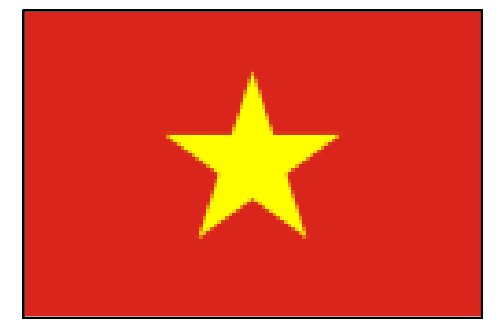


*To keep within the 1.5°C global warming goal, the IPCC recommends cutting emissions by 43% by 2030 (against a 2019 baseline), reaching a 60% reduction by 2035 compared to 2019 levels.



FACT SHEET

NDC 2.0 Ambitions: Viet Nam



Country Overview



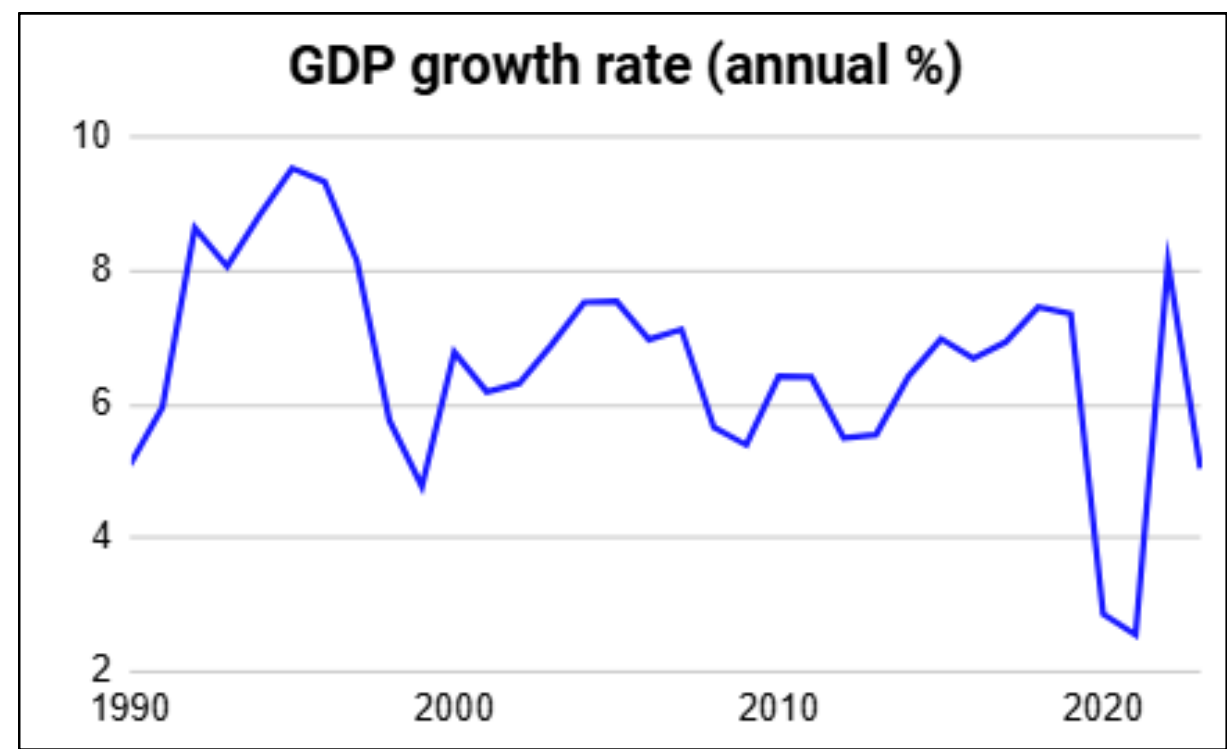
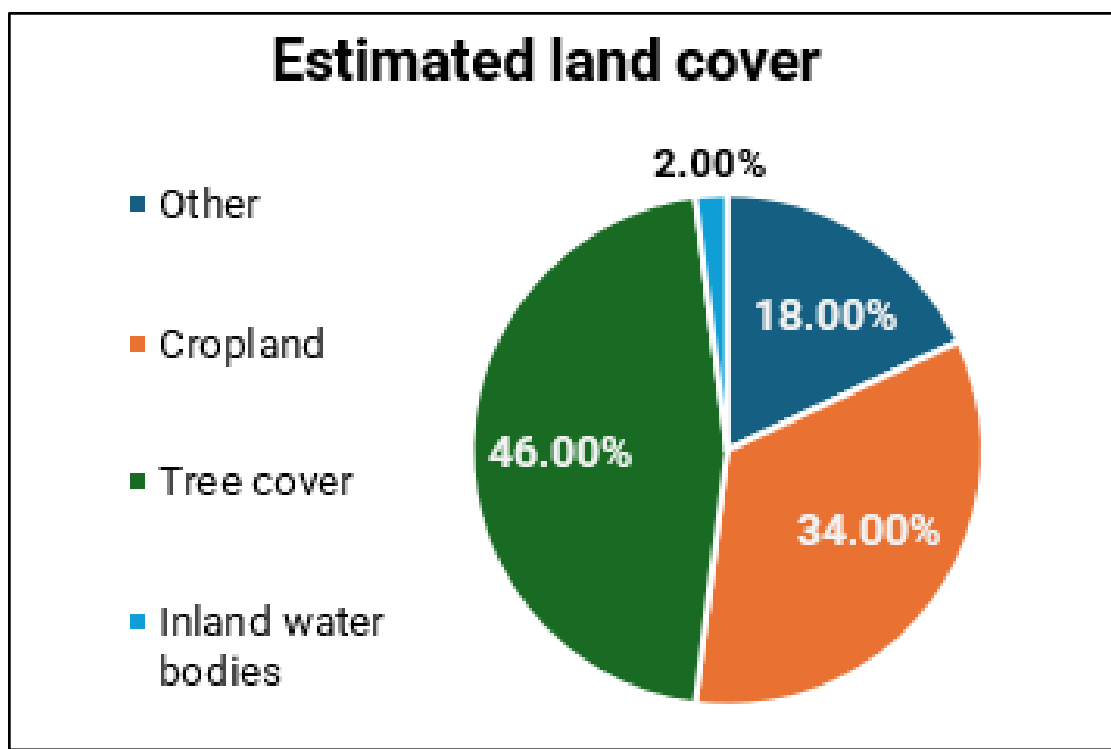
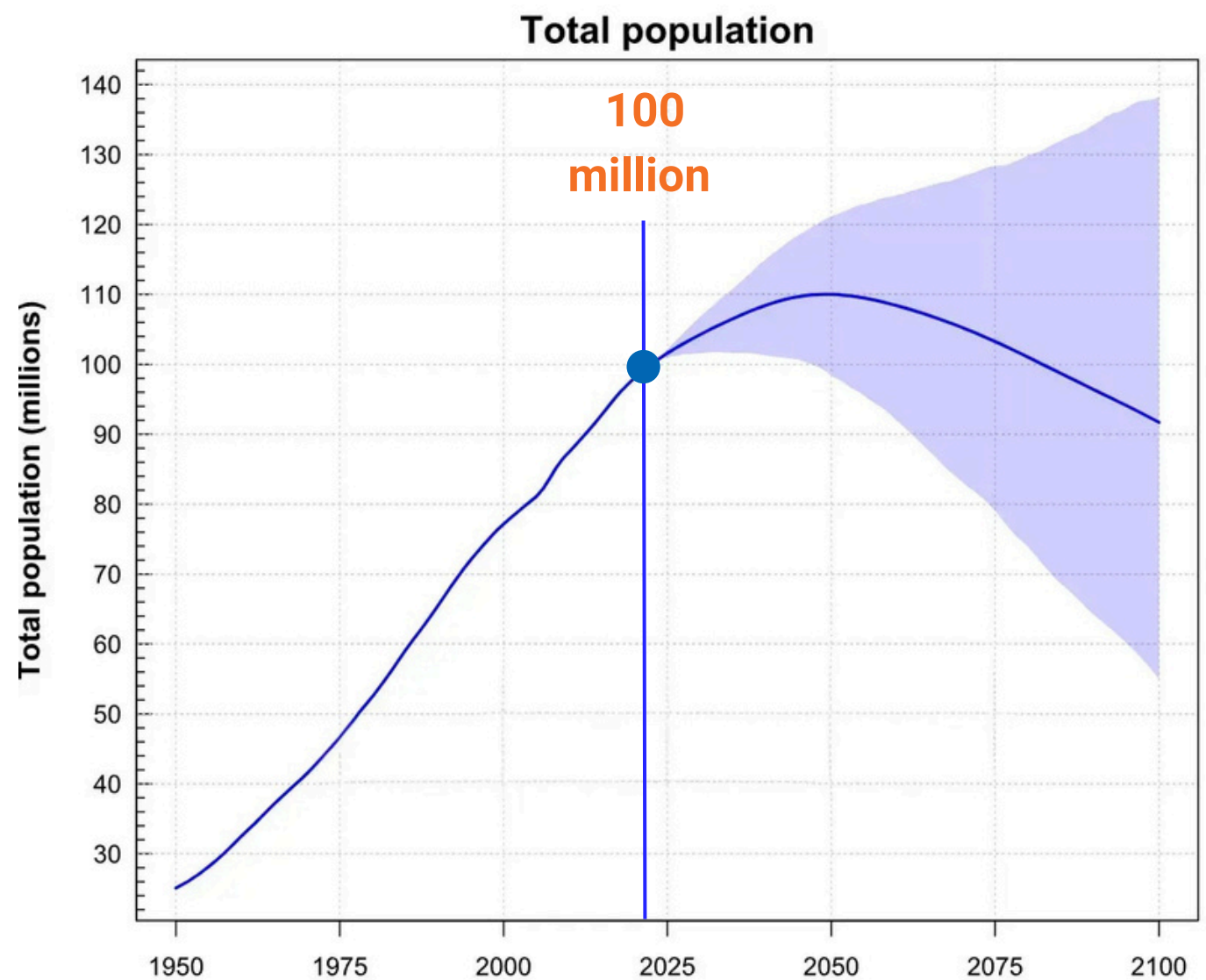
Size: 331,345 square km

Subregion: Southeast Asia

Population: 100 million

Gross Domestic Product (GDP): US\$ 429 billion (2023)

NDC 2.0 Timeline:



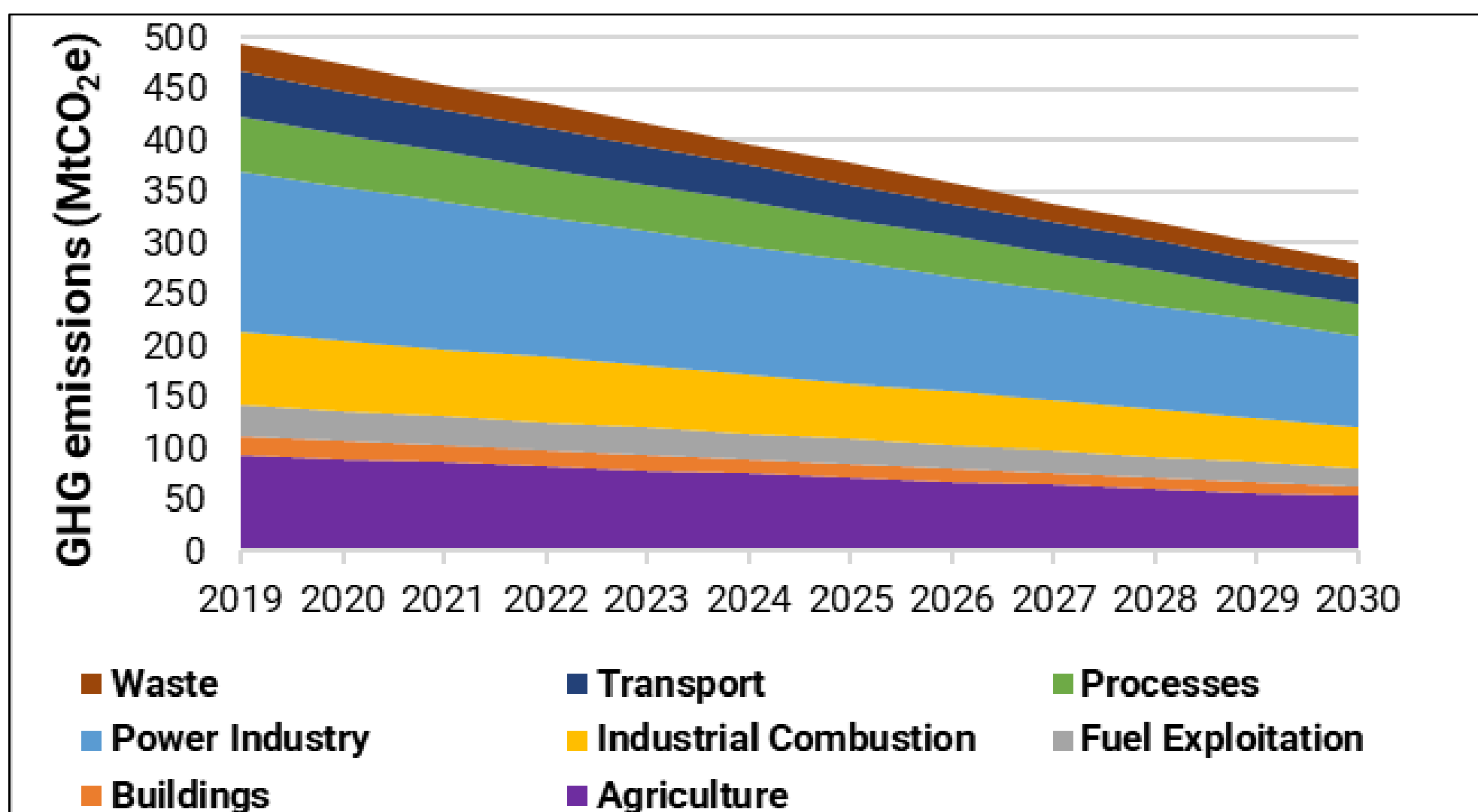
NDC 2.0 Ambitions (projected emissions, 2030)

Total emissions for a 1.5° C pathway: 278.01 MtCO₂e

NDC 2.0 commitment, total emissions: 524.26 MtCO₂e

47% Gap

Sectoral emissions consistent with recommended 43% reduction target*

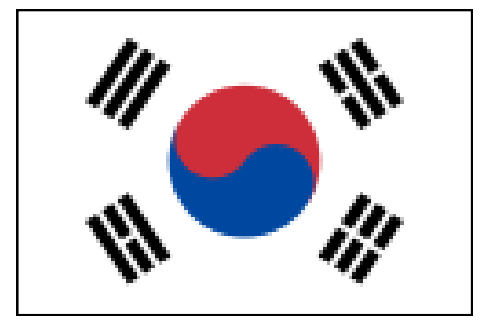


*To keep within the 1.5°C global warming goal, the IPCC recommends cutting emissions by 43% by 2030 (against a 2019 baseline), reaching a 60% reduction by 2035 compared to 2019 levels.



FACT SHEET

NDC 2.0 Ambitions: The Republic of Korea



Country Overview



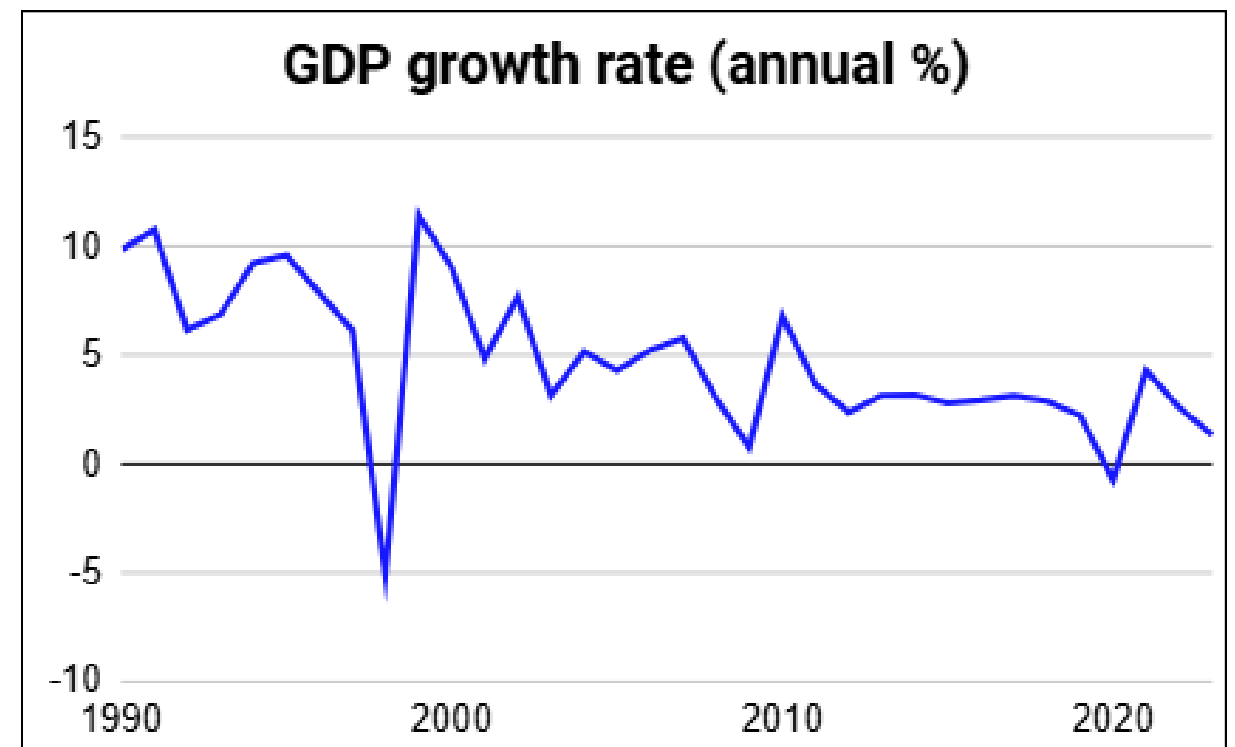
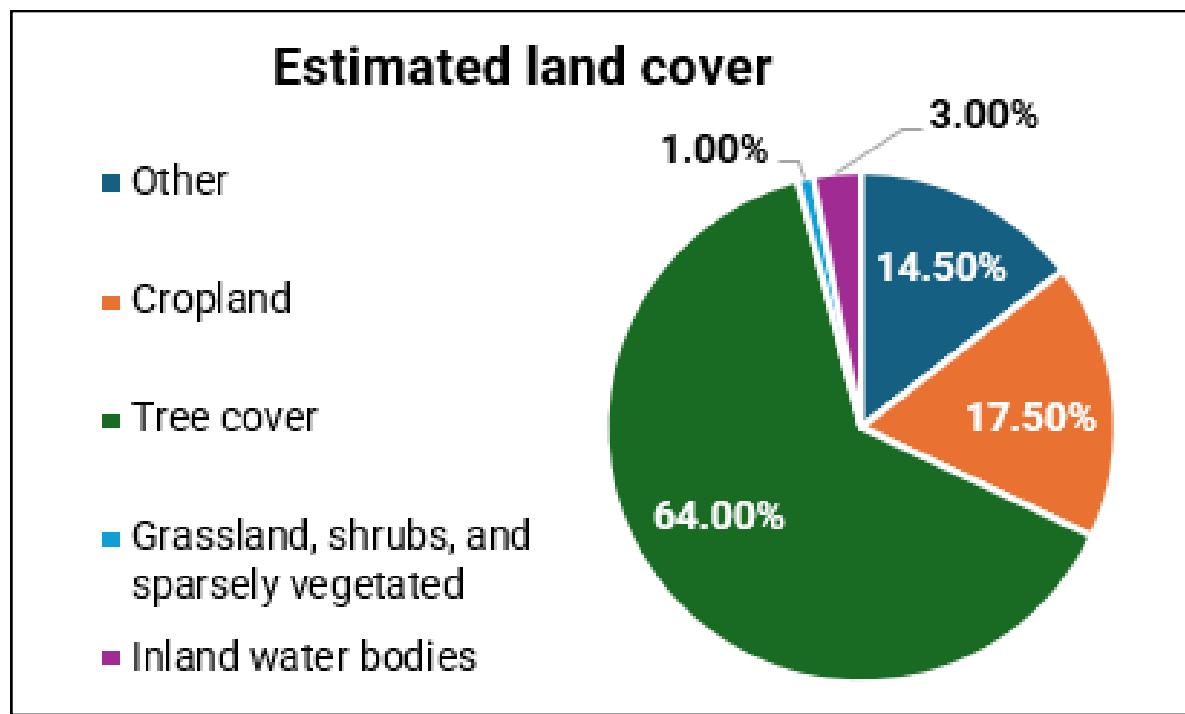
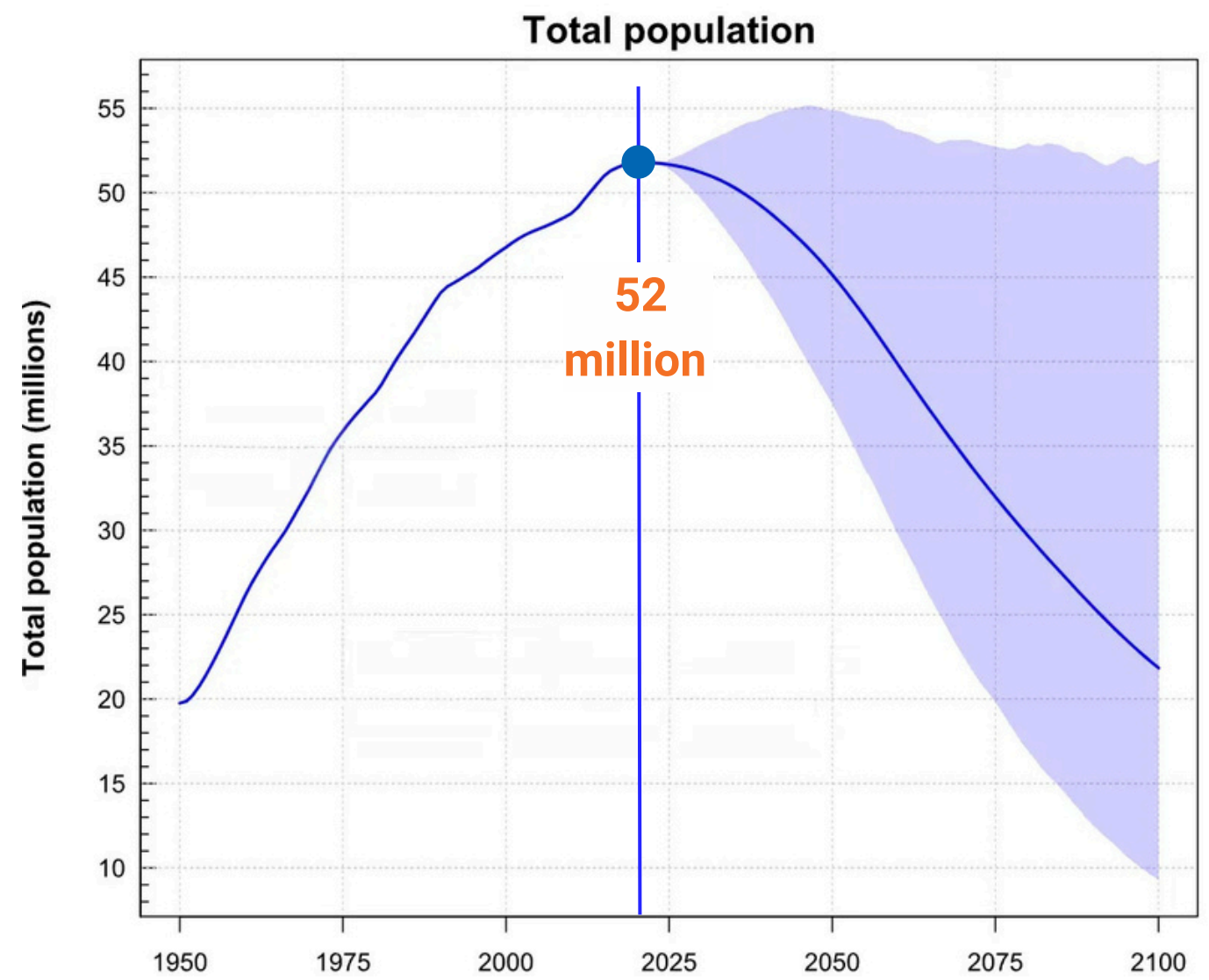
Size: 100,222 square km

Subregion: East Asia

Population: 52 million

Gross Domestic Product (GDP):
US\$ 1.712 trillion (2023)

NDC 2.0 Timeline:



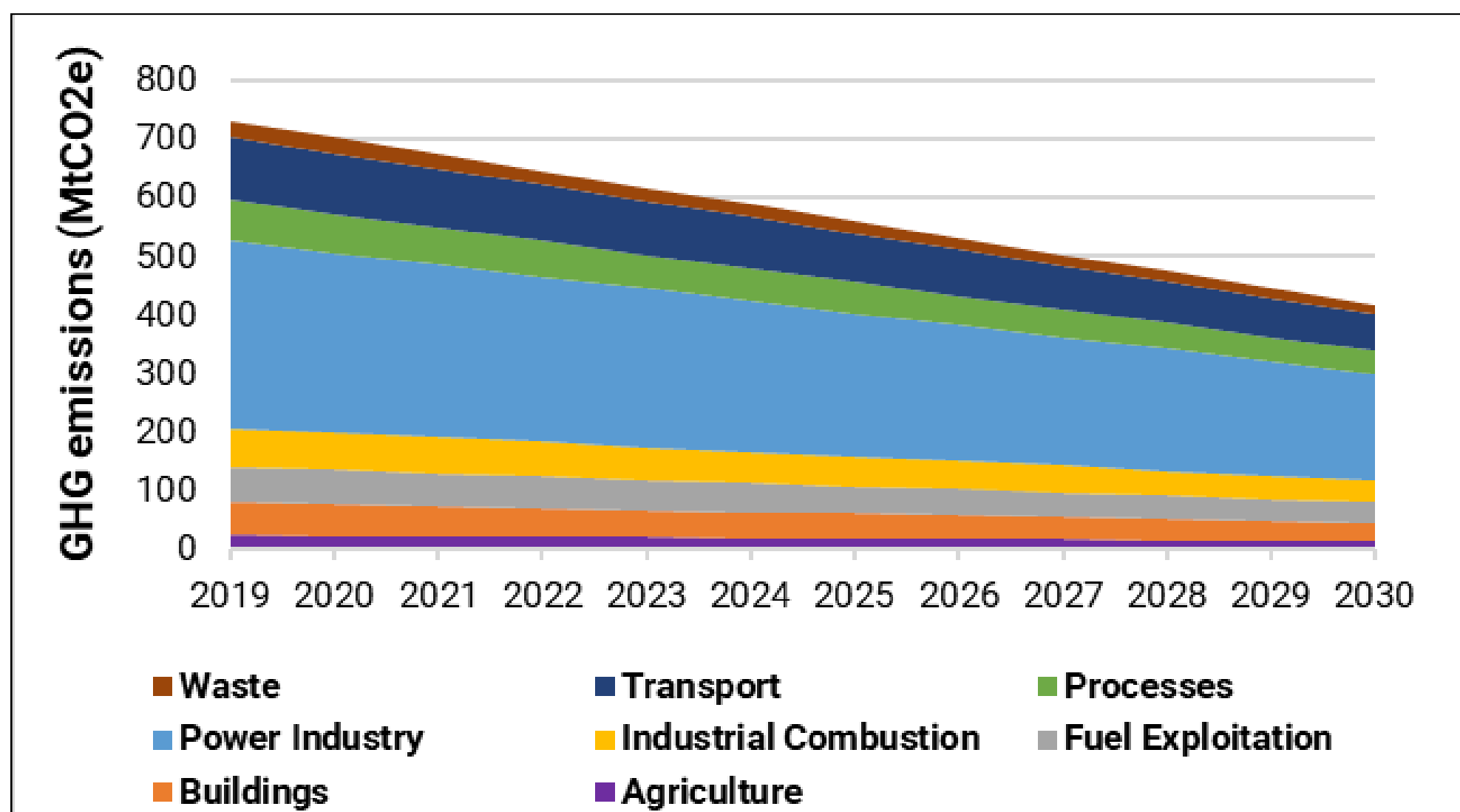
NDC 2.0 Ambitions (projected emissions, 2030)

Total emissions for a 1.5° C pathway: 415.16 MtCO₂e

NDC 2.0 commitment, total emissions: 450.87 MtCO₂e

8% Gap

Sectoral emissions consistent with recommended 43% reduction target*

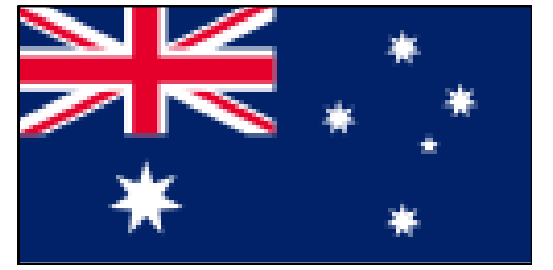


*To keep within the 1.5°C global warming goal, the IPCC recommends cutting emissions by 43% by 2030 (against a 2019 baseline), reaching a 60% reduction by 2035 compared to 2019 levels.



FACT SHEET

NDC 2.0 Ambitions: Australia



Country Overview



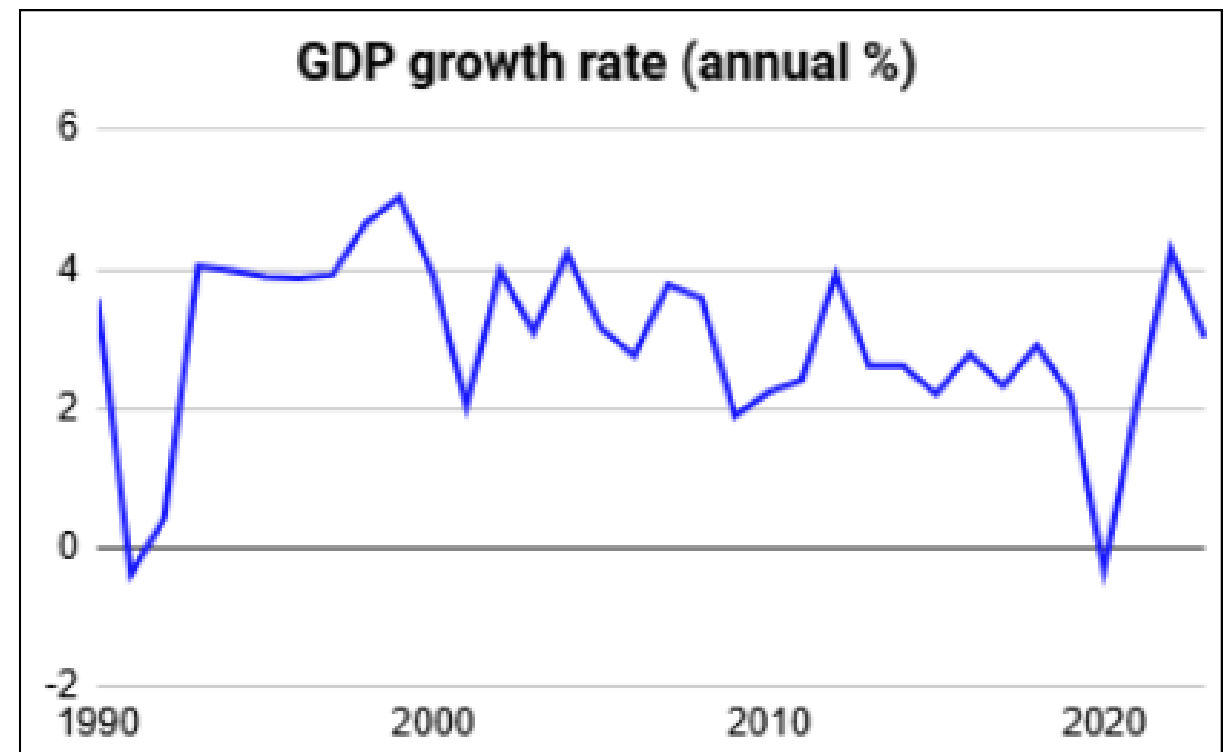
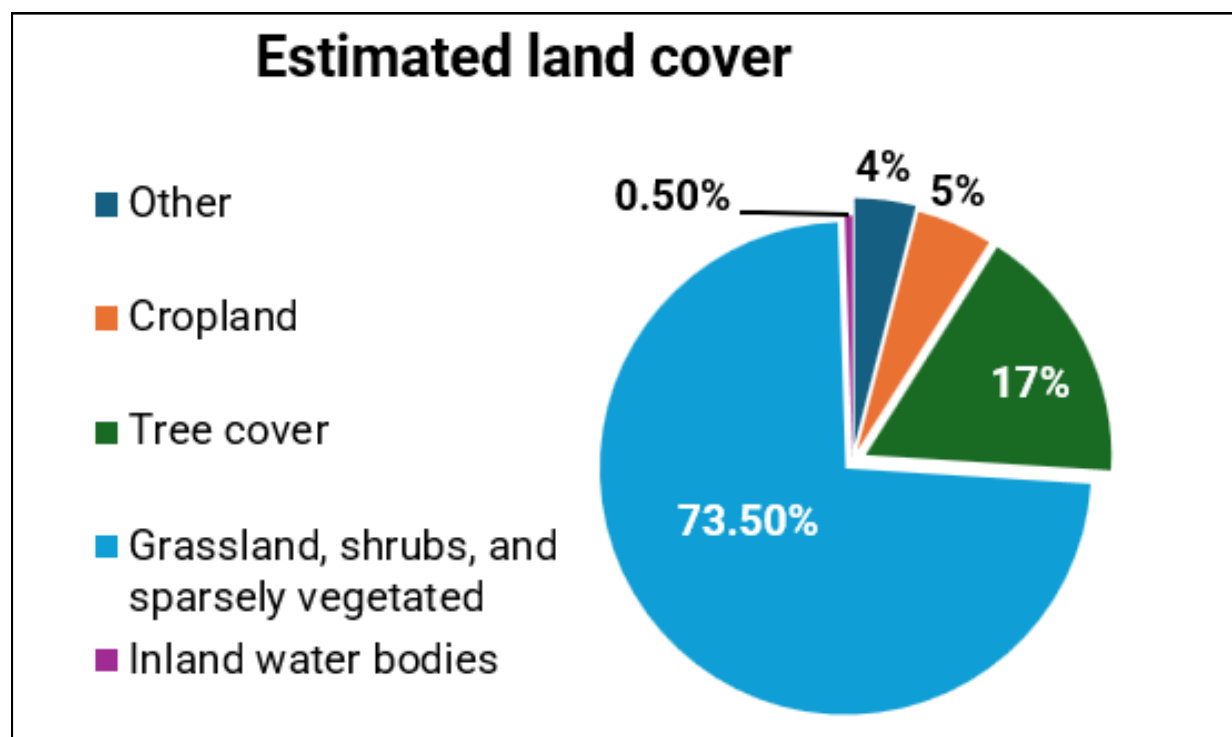
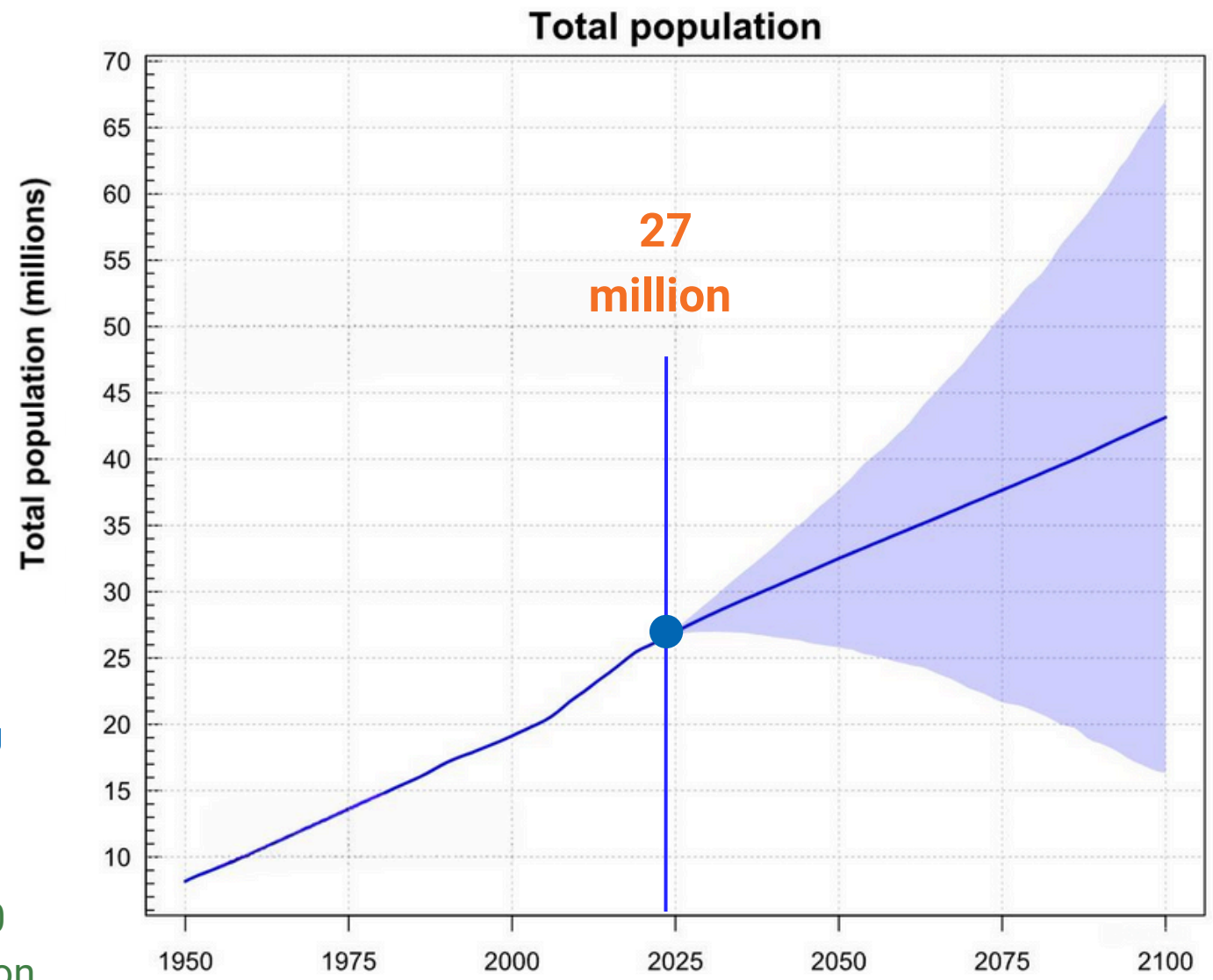
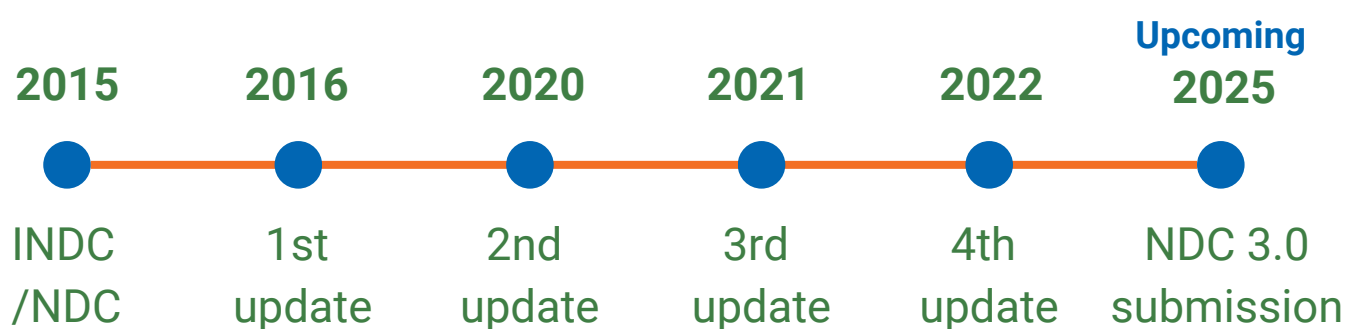
Size: 7,688,126 square km

Subregion: Pacific

Population: 27 million

Gross Domestic Product (GDP):
US\$ 1.723 trillion (2023)

NDC 2.0 Timeline:



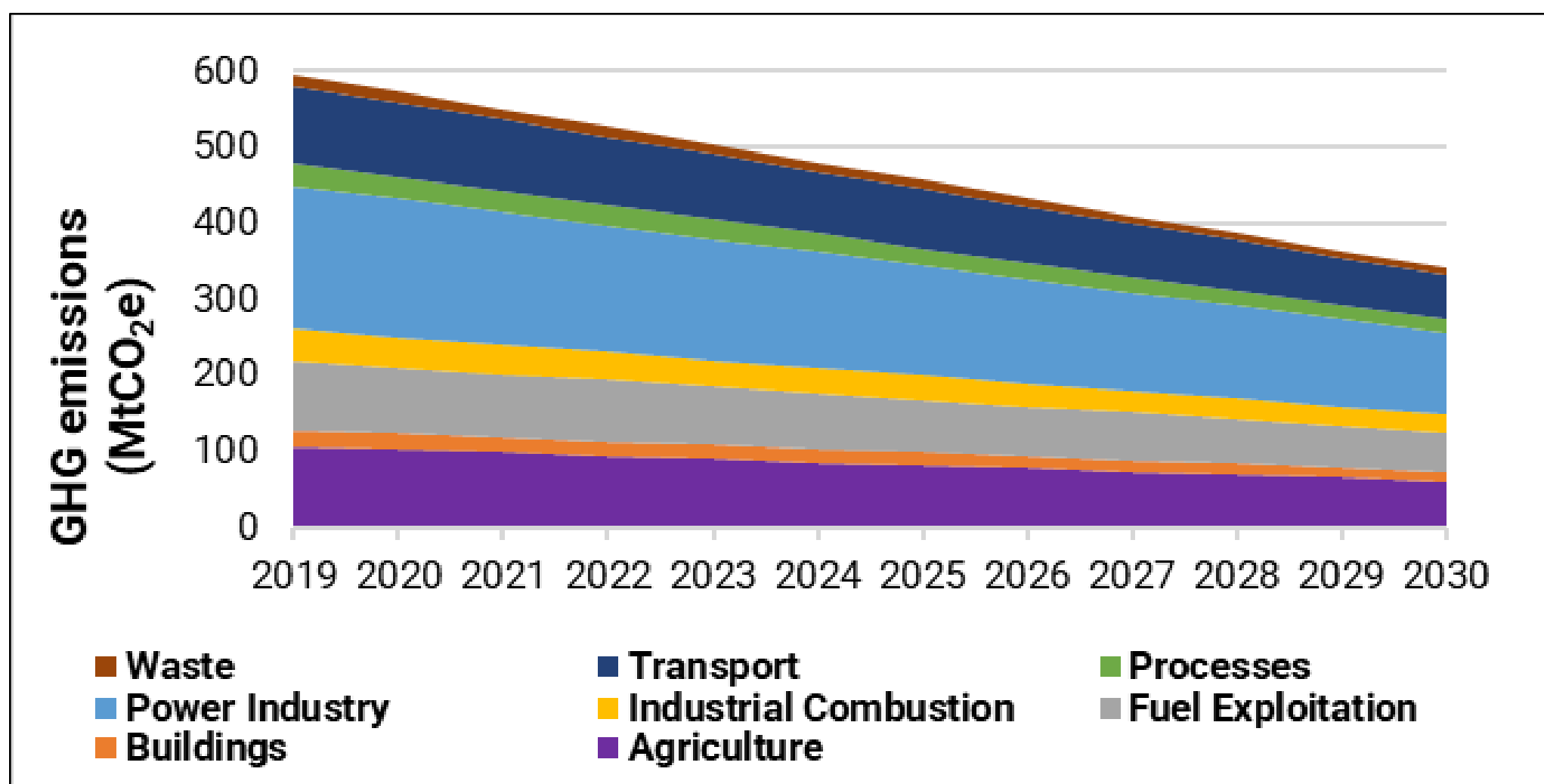
NDC 2.0 Ambitions (projected emissions, 2030)

Total emissions for a 1.5° C pathway: 333.41 MtCO₂e

NDC 2.0 commitment, total emissions: 354.02 MtCO₂e

6% Gap

Sectoral emissions consistent with recommended 43% reduction target*



*To keep within the 1.5°C global warming goal, the IPCC recommends cutting emissions by 43% by 2030 (against a 2019 baseline), reaching a 60% reduction by 2035 compared to 2019 levels.



FACT SHEET

NDC 2.0 Ambitions: Thailand

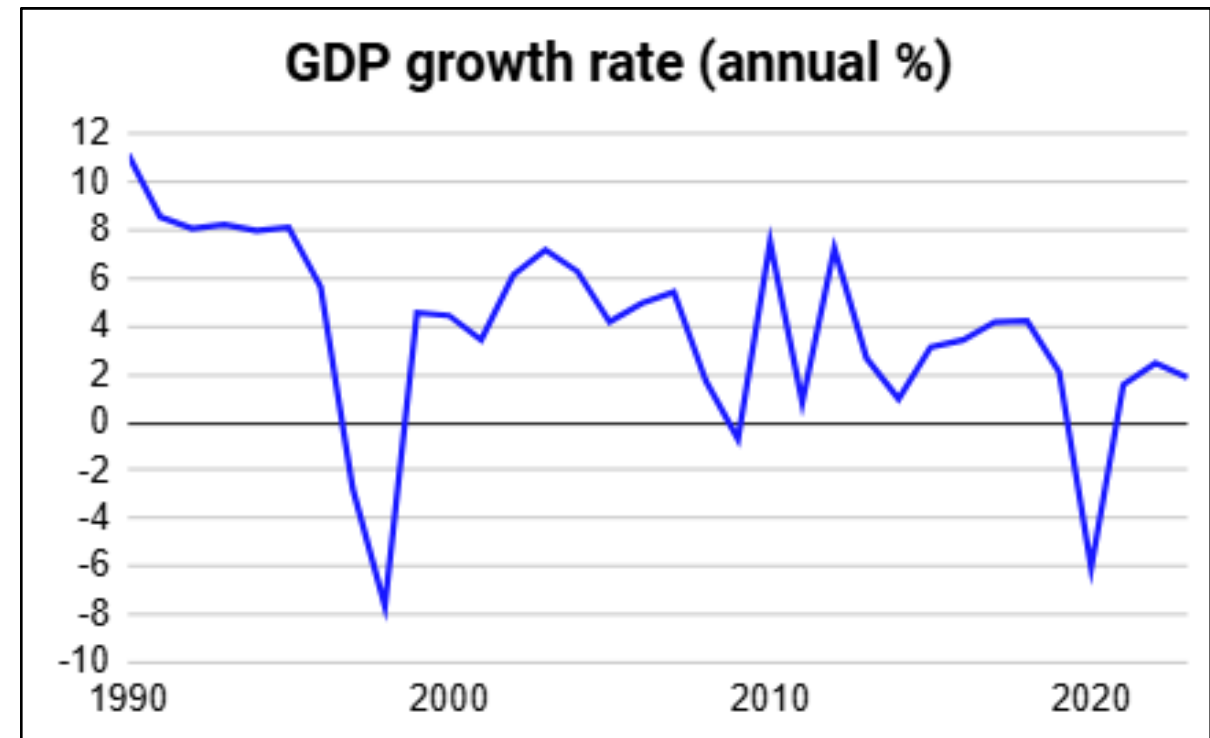
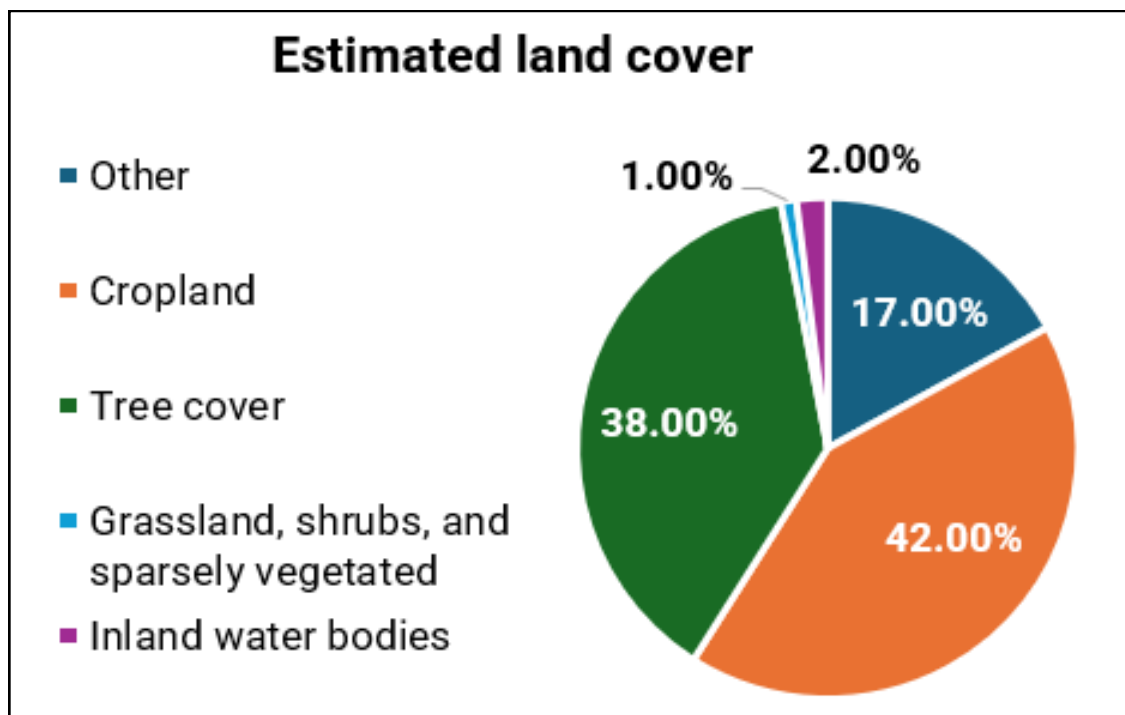
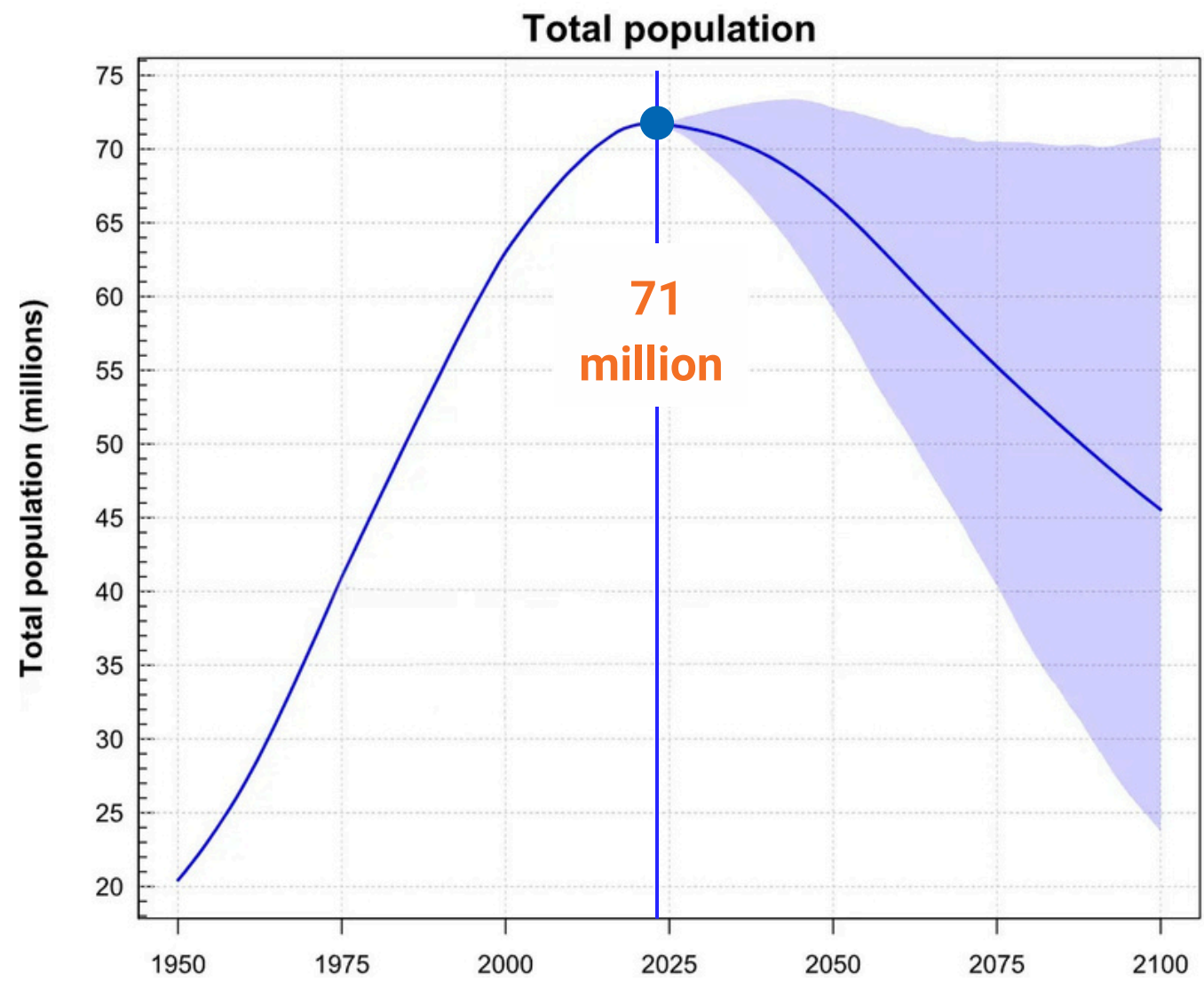


Country Overview



Size: 513,140 square km
Subregion: Southeast Asia
Population: 71 million
Gross Domestic Product (GDP): US\$ 514 billion (2023)

NDC 2.0 Timeline:



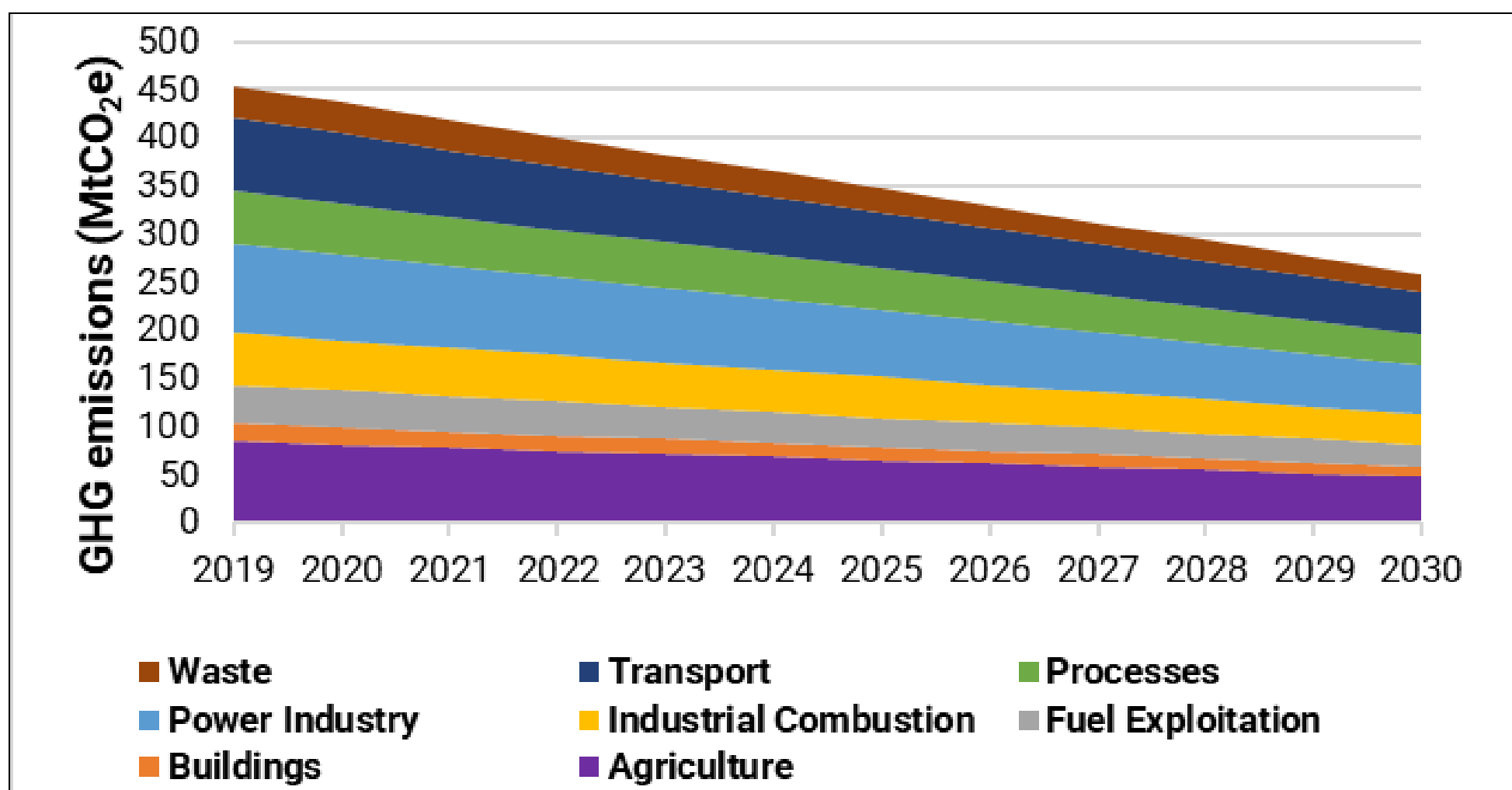
NDC 2.0 Ambitions (projected emissions, 2030)

Total emissions for a 1.5° C pathway: 256.4 MtCO₂e

NDC 2.0 commitment, total emissions: 333 MtCO₂e

23% Gap

Sectoral emissions consistent with recommended 43% reduction target*

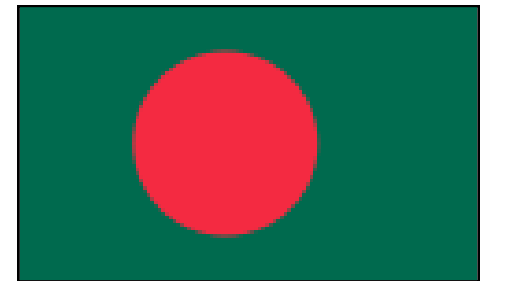


*To keep within the 1.5°C global warming goal, the IPCC recommends cutting emissions by 43% by 2030 (against a 2019 baseline), reaching a 60% reduction by 2035 compared to 2019 levels.



FACT SHEET

NDC 2.0 Ambitions: Bangladesh



Country Overview



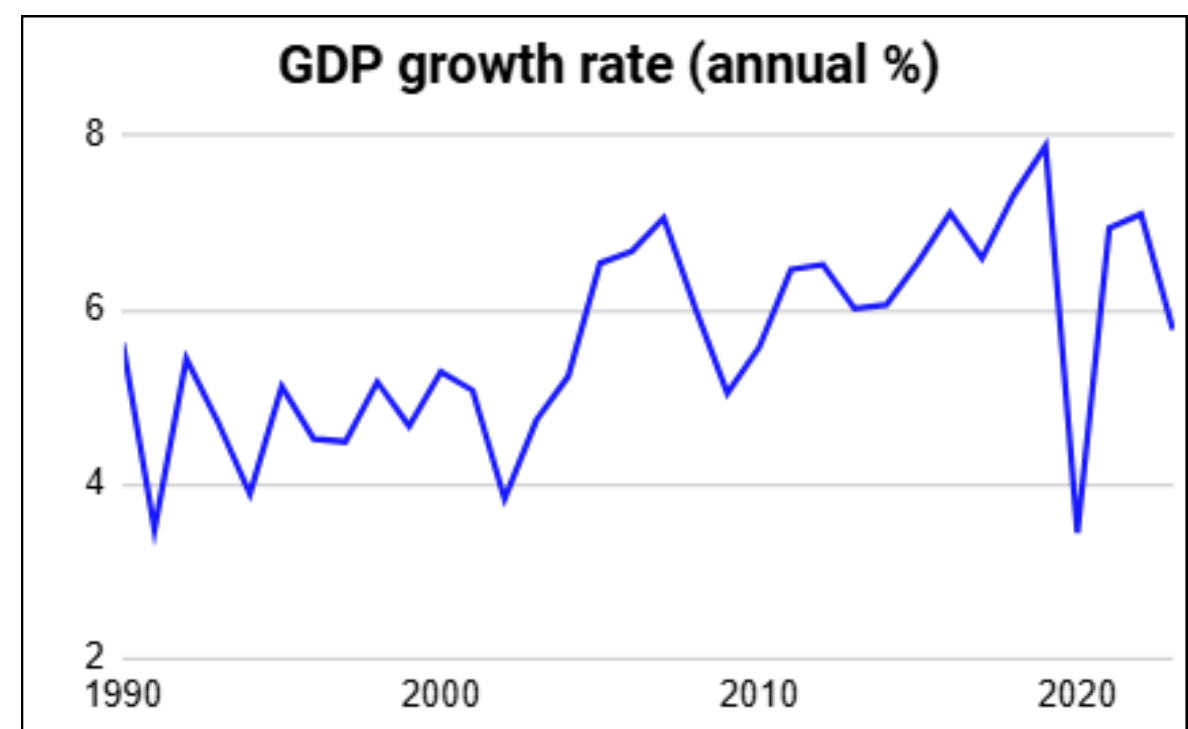
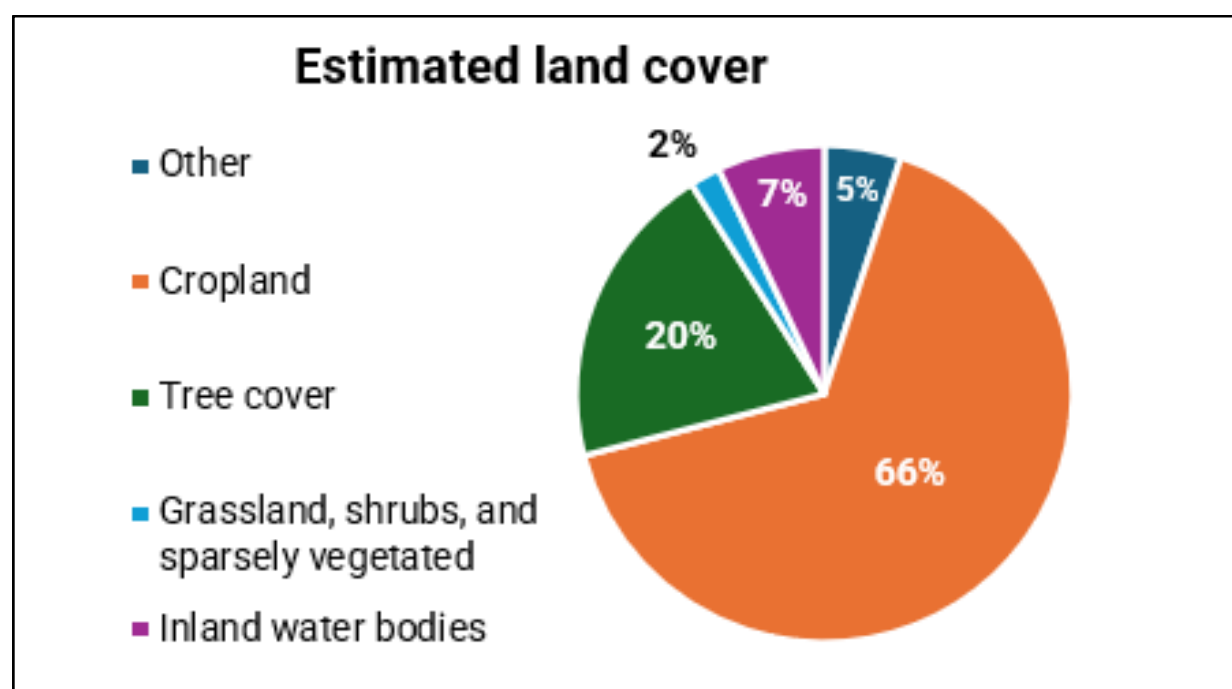
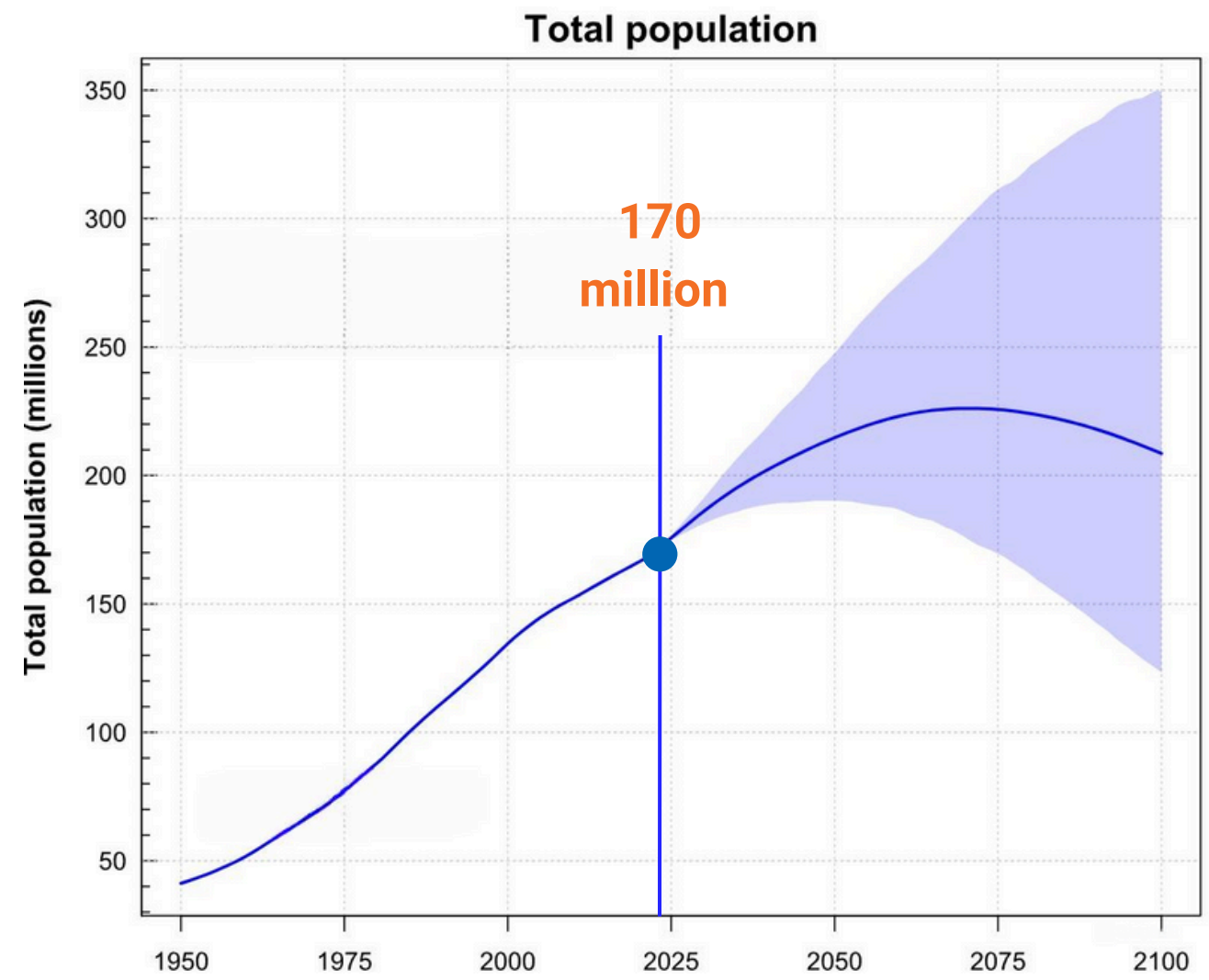
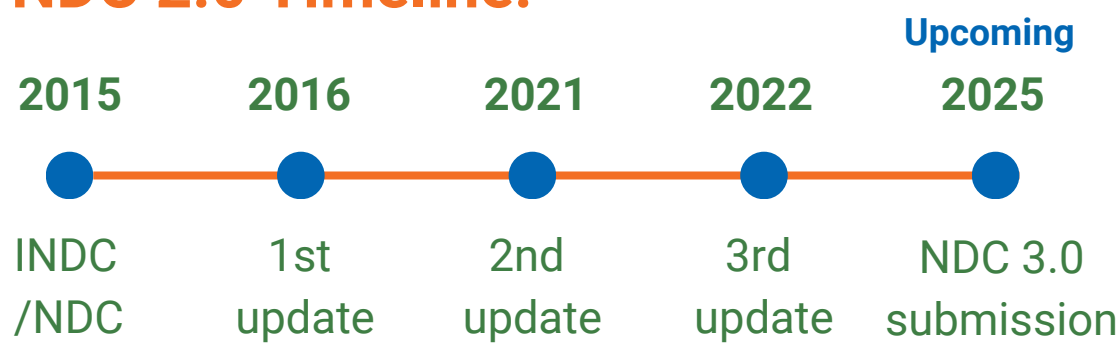
Size: 147,570 square km

Subregion: South Asia

Population: 170 million

Gross Domestic Product (GDP):
US\$ 437 billion (2023)

NDC 2.0 Timeline:



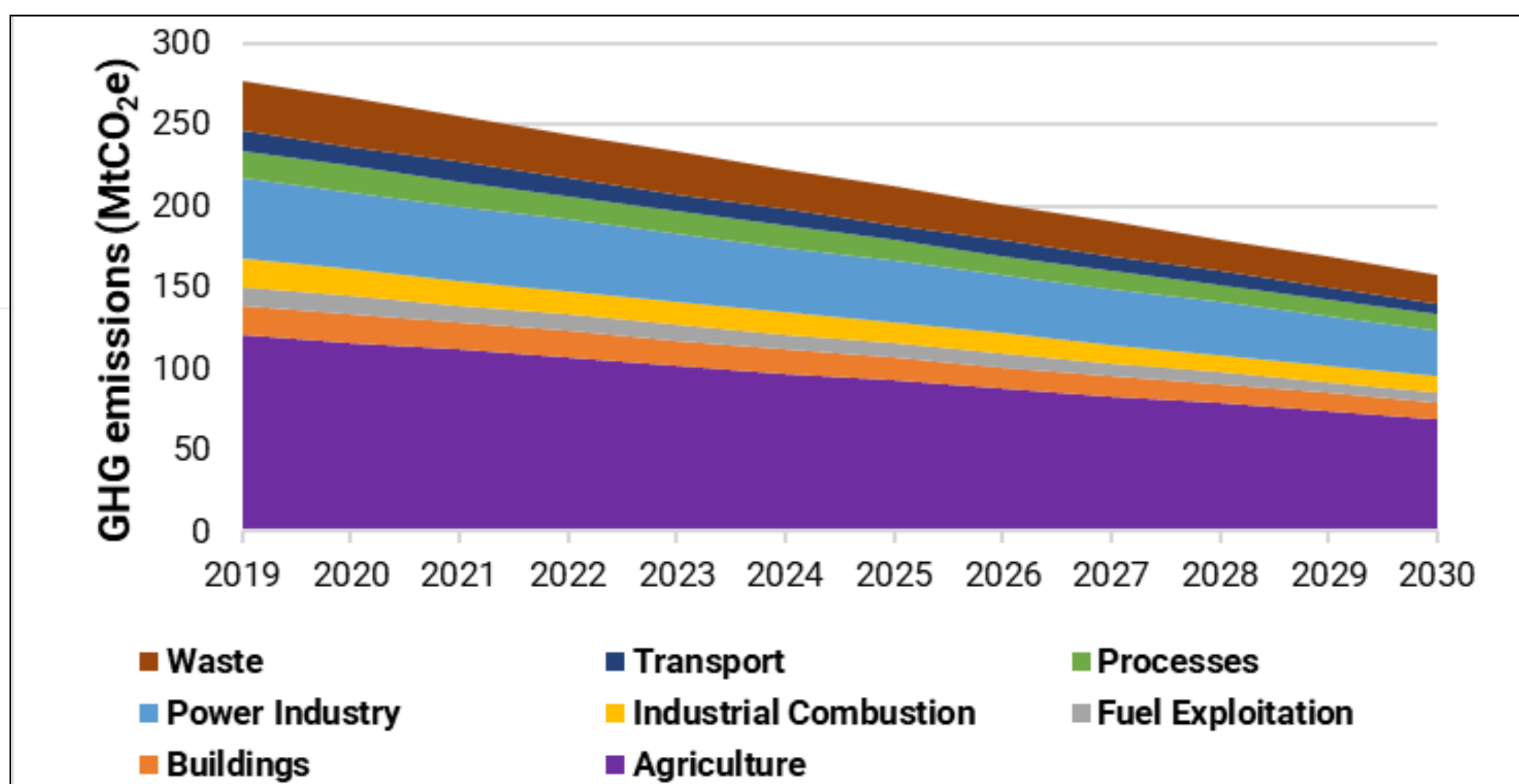
NDC 2.0 Ambitions (projected emissions, 2030)

Total emissions for a 1.5° C pathway: 120.92 MtCO₂e

NDC 2.0 commitment, total emissions: 319.95 MtCO₂e

62% Gap

Sectoral emissions consistent with recommended 43% reduction target*

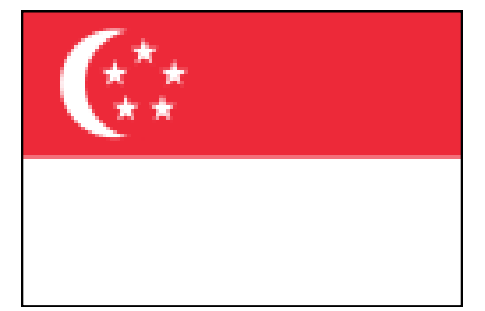


*To keep within the 1.5°C global warming goal, the IPCC recommends cutting emissions by 43% by 2030 (against a 2019 baseline), reaching a 60% reduction by 2035 compared to 2019 levels.



FACT SHEET

NDC 2.0 Ambitions: Singapore



Country Overview



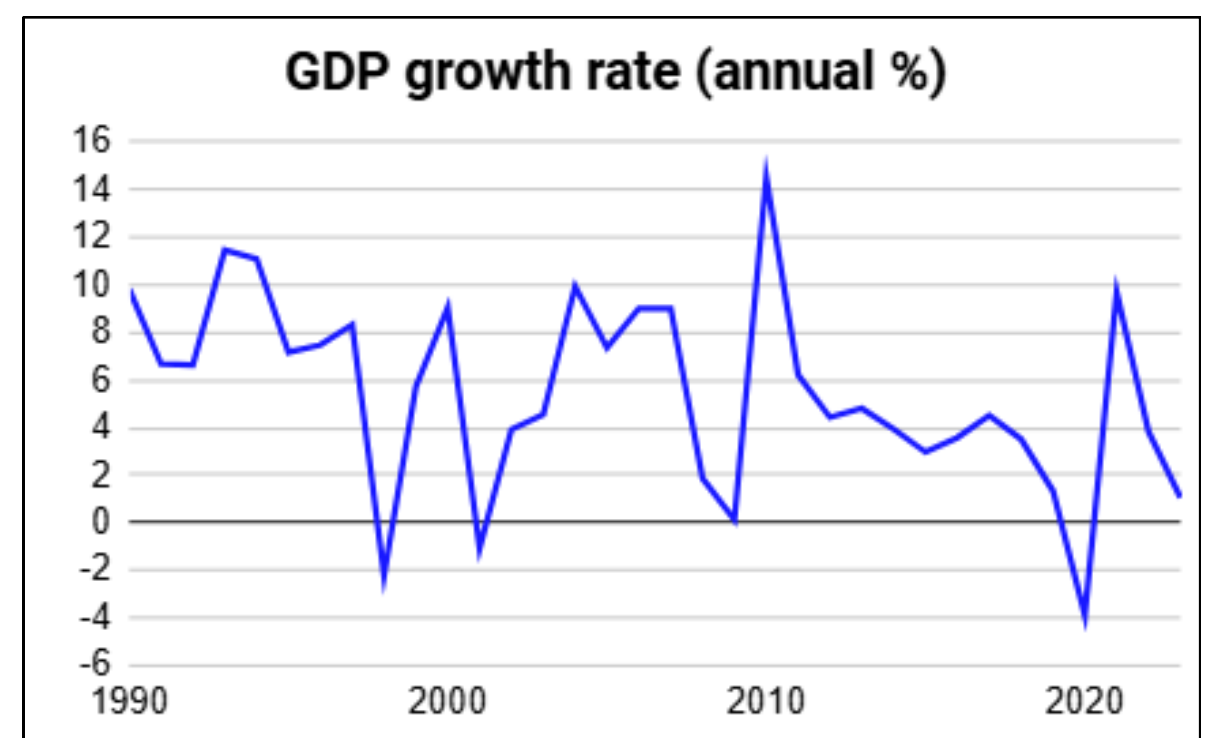
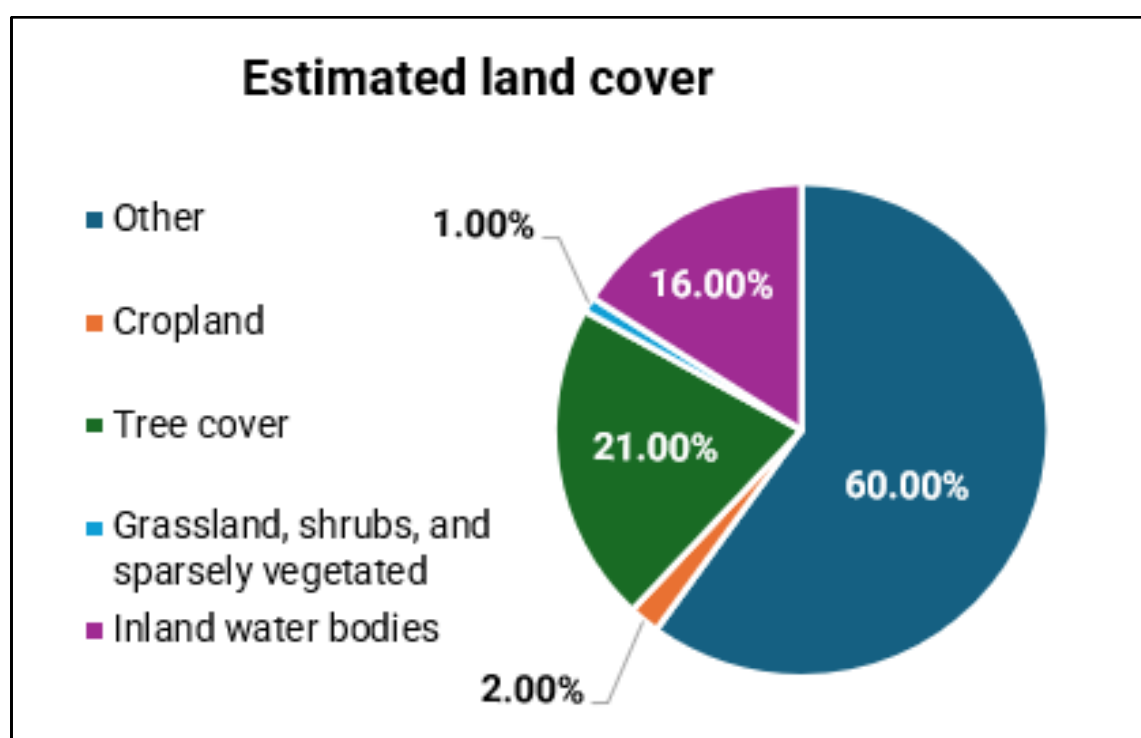
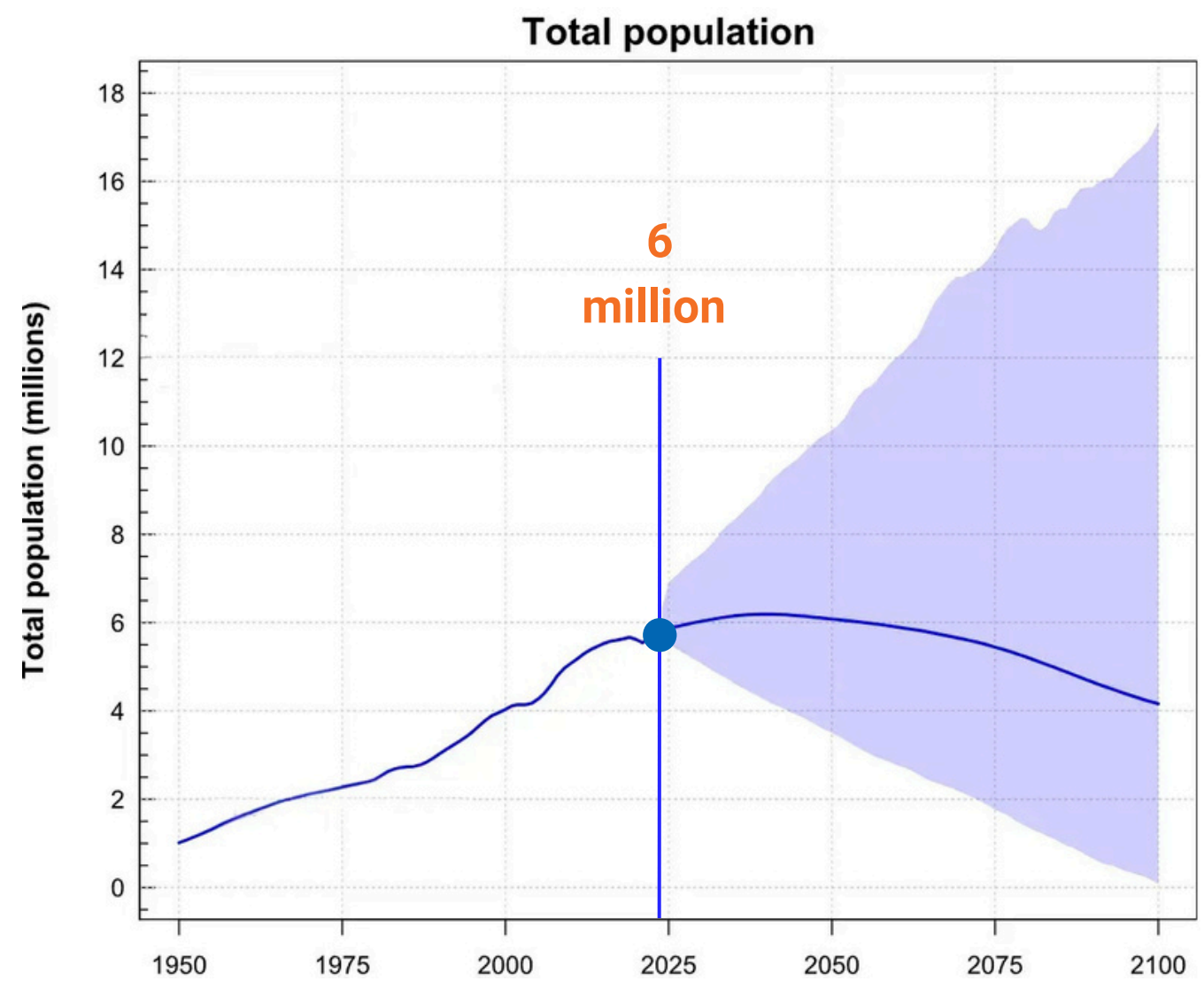
Size: 735 square km

Subregion: Southeast Asia

Population: 6 million

Gross Domestic Product (GDP):
US\$ 501 billion (2023)

NDC 2.0 Timeline:



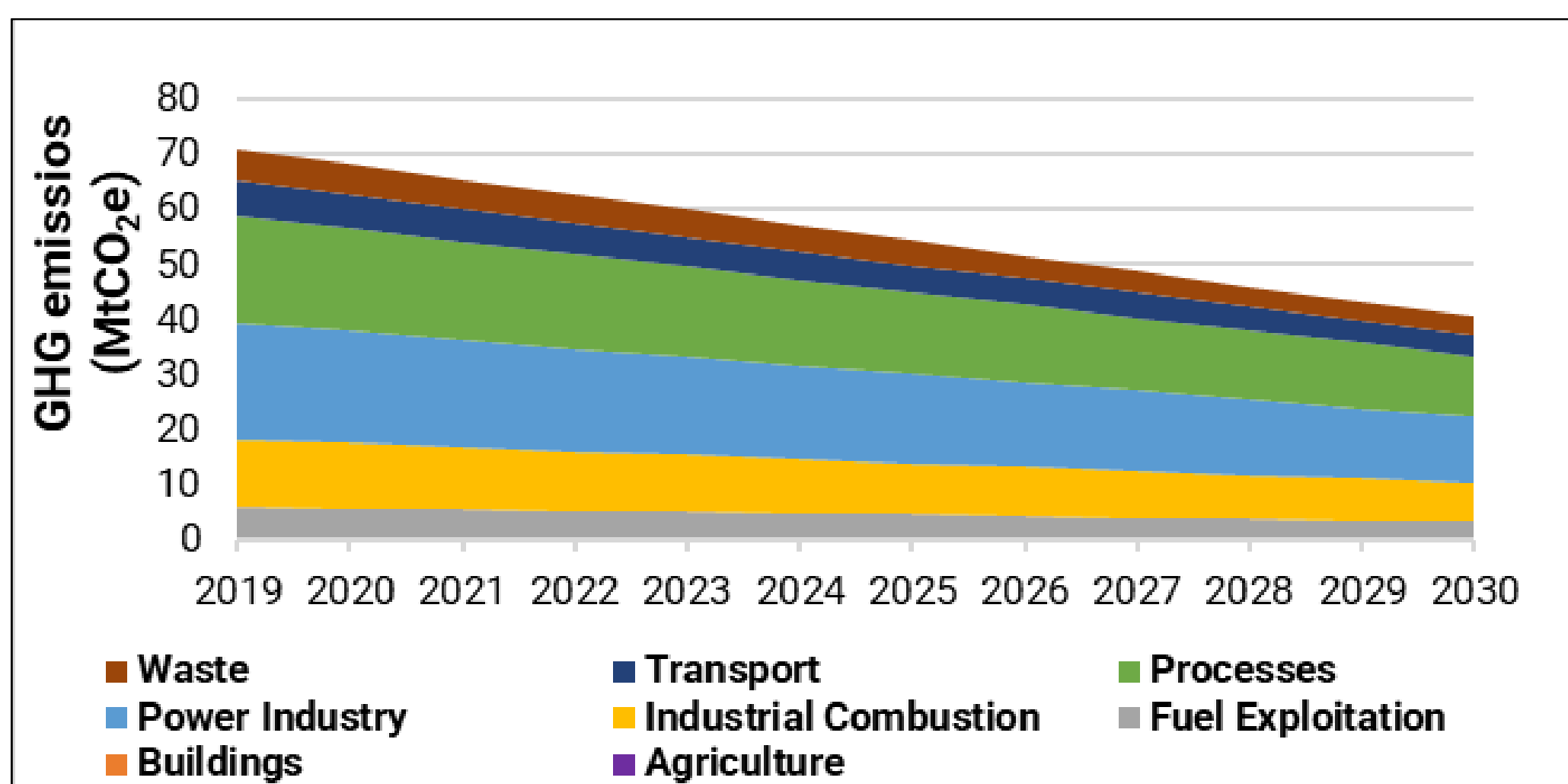
NDC 2.0 Ambitions (projected emissions, 2030)

Total emissions for a 1.5° C pathway: 40.72 MtCO₂e

NDC 2.0 commitment, total emissions: 60 MtCO₂e

32% Gap

Sectoral emissions consistent with recommended 43% reduction target*



*To keep within the 1.5°C global warming goal, the IPCC recommends cutting emissions by 43% by 2030 (against a 2019 baseline), reaching a 60% reduction by 2035 compared to 2019 levels.



FACT SHEET

NDC 2.0 Ambitions: Sri Lanka



Country Overview



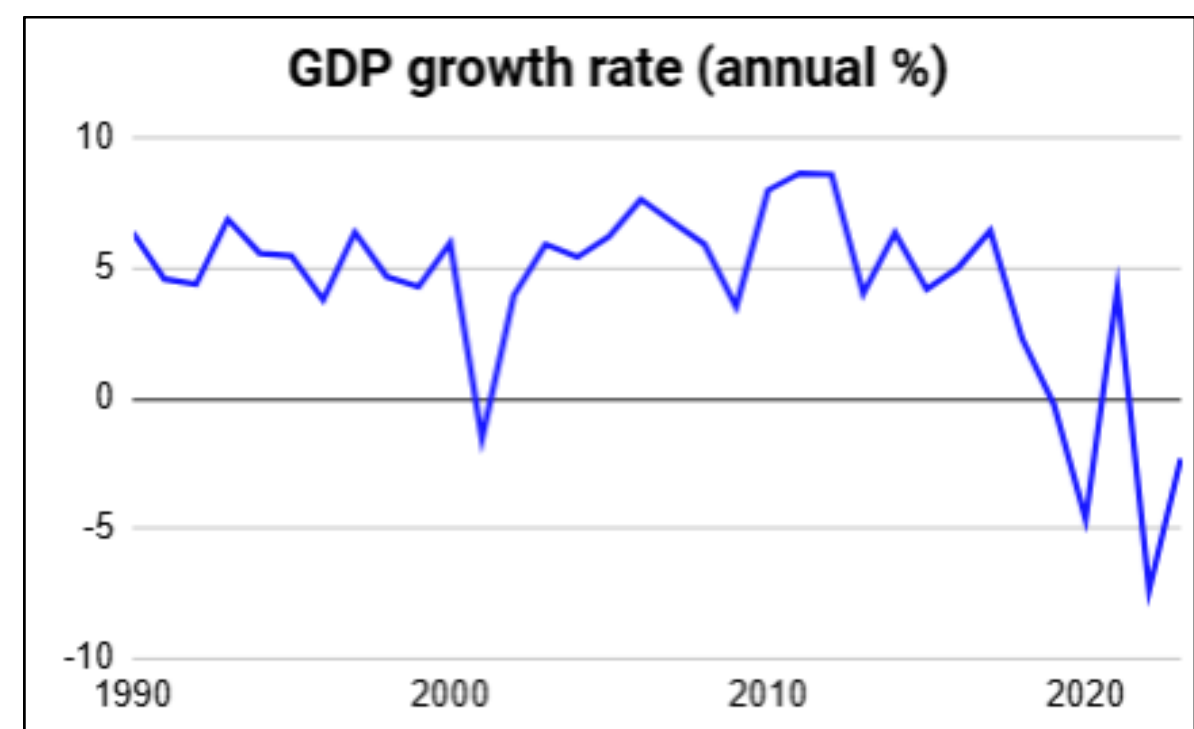
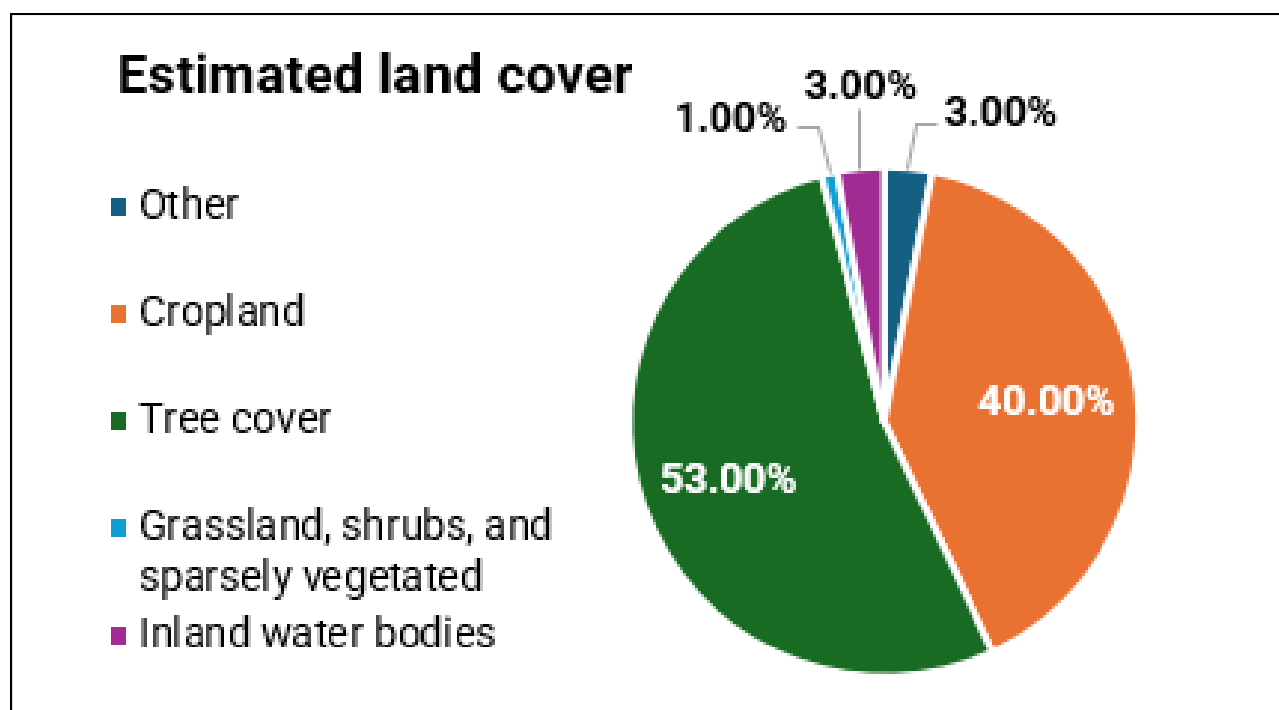
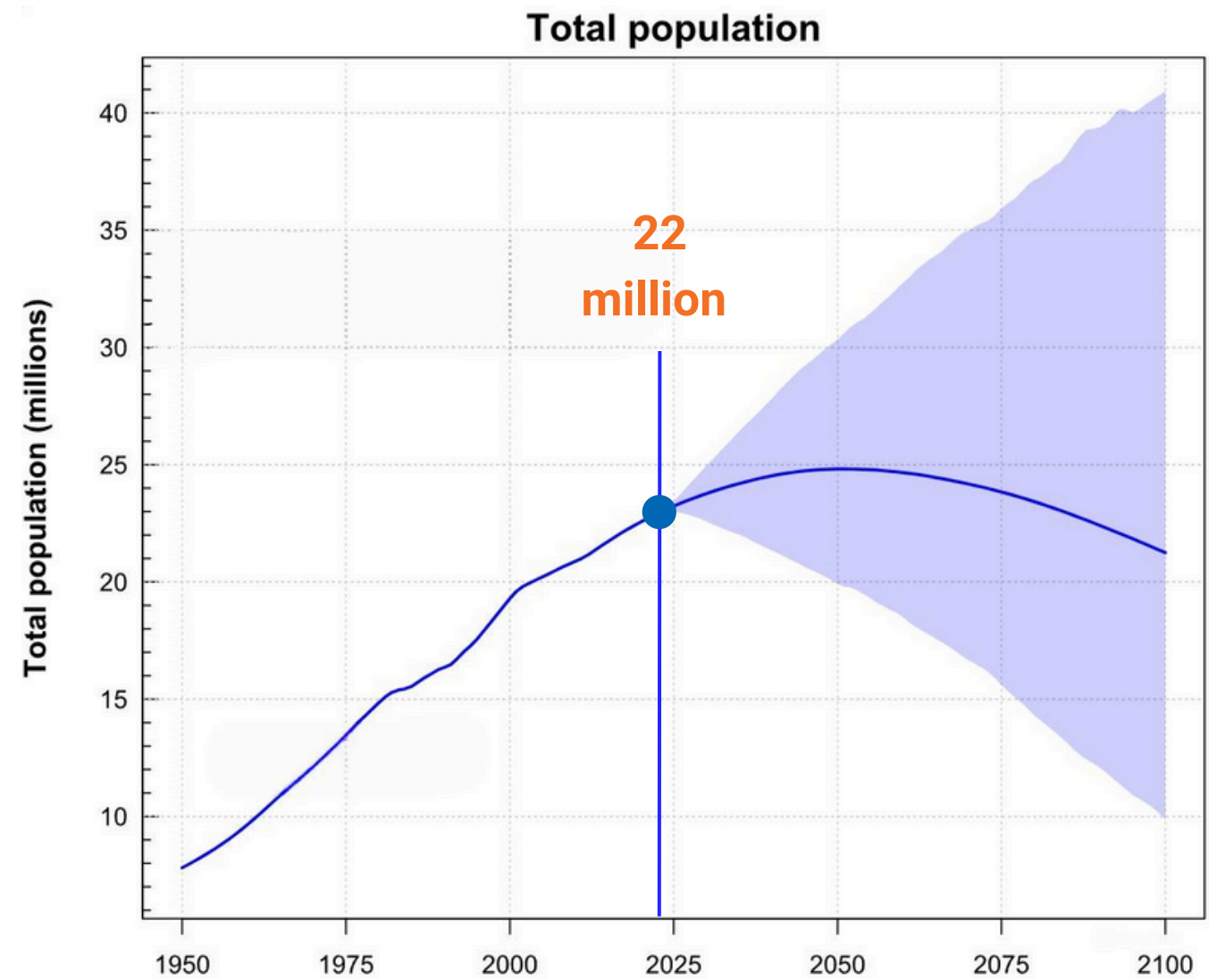
Size: 65,610 square km

Subregion: South Asia

Population: 22 million

Gross Domestic Product (GDP): US\$ 84 billion (2023)

NDC 2.0 Timeline:



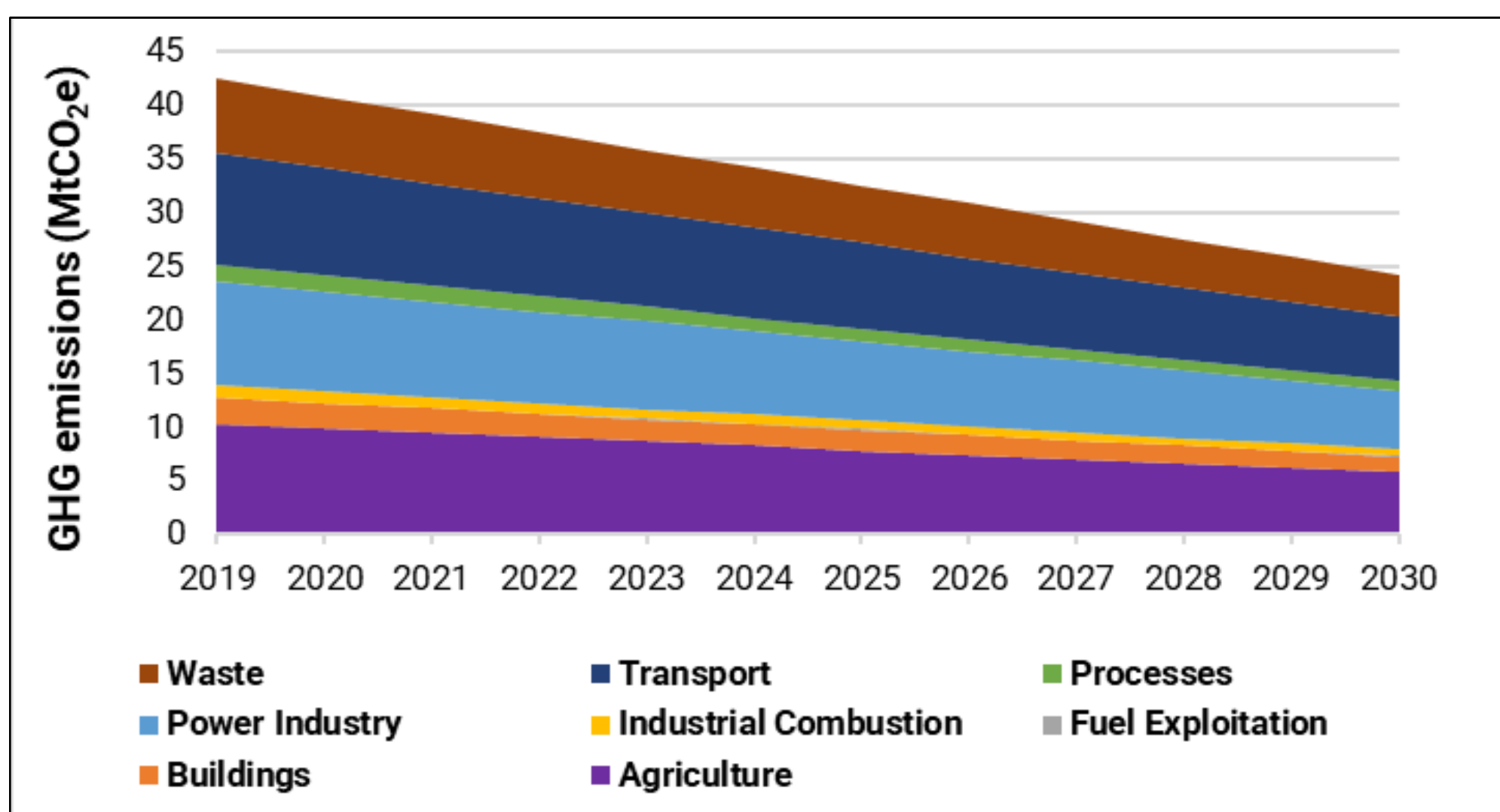
NDC 2.0 Ambitions (projected emissions, 2030)

Total emissions for a 1.5° C pathway: 20.22 MtCO₂e

NDC 2.0 commitment, total emissions: 37.34 MtCO₂e

46% Gap

Sectoral emissions consistent with recommended 43% reduction target*



*To keep within the 1.5°C global warming goal, the IPCC recommends cutting emissions by 43% by 2030 (against a 2019 baseline), reaching a 60% reduction by 2035 compared to 2019 levels.



Country Overview



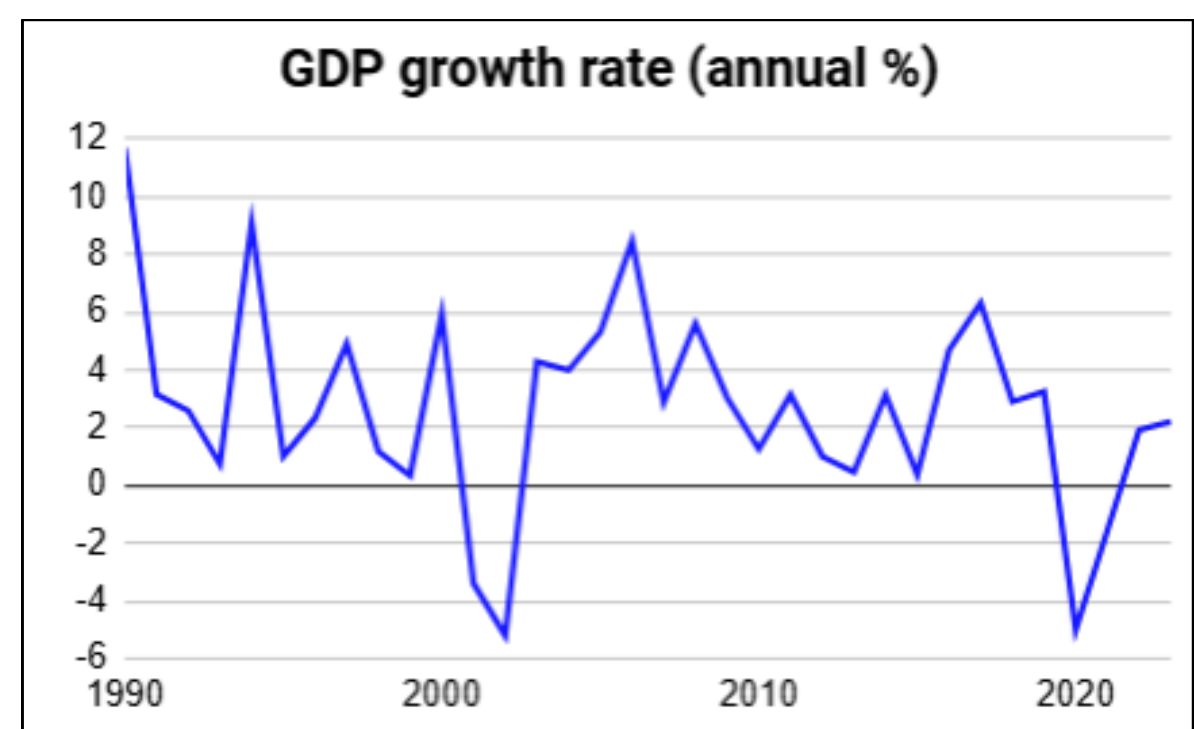
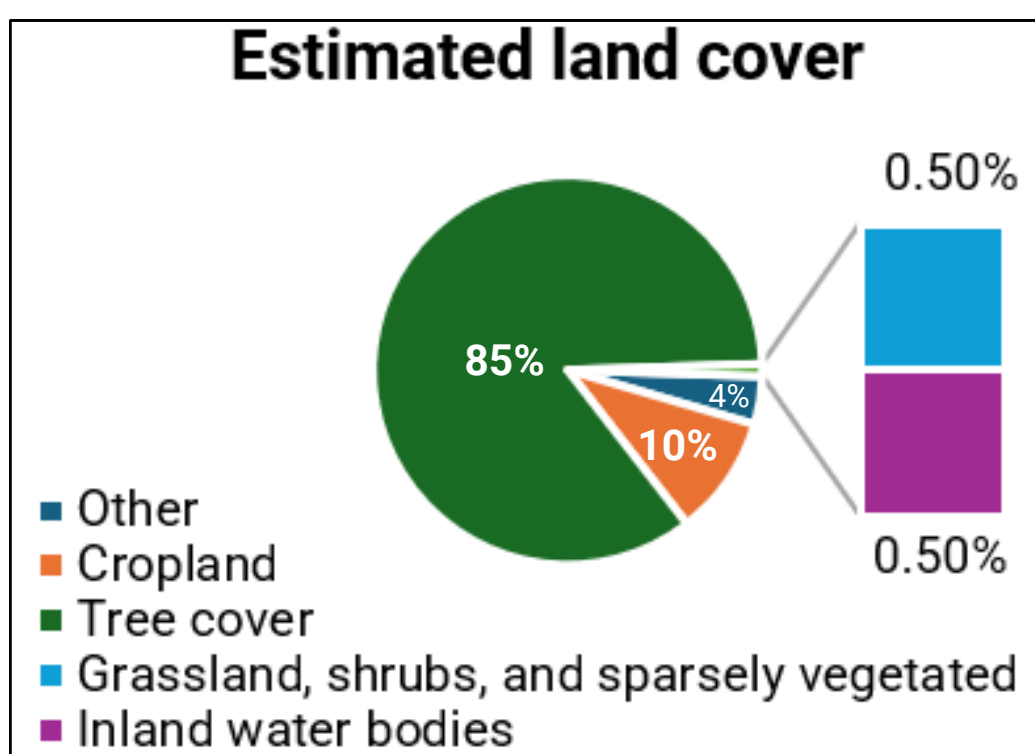
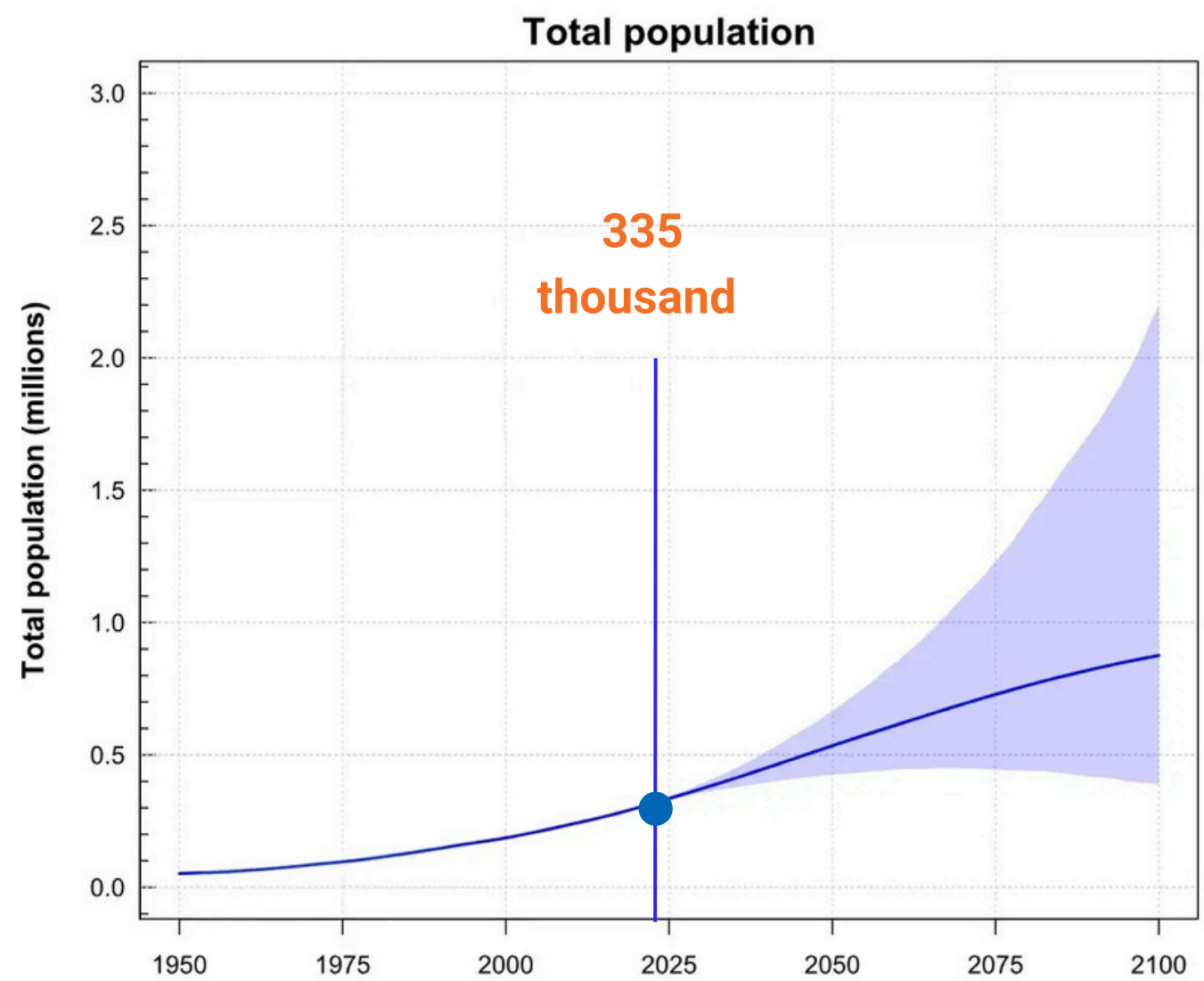
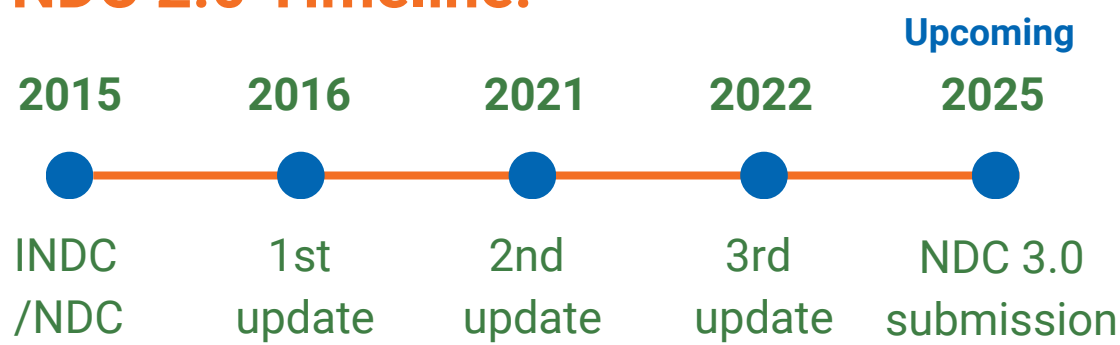
Size: 12,281 square km

Subregion: Pacific

Population: 335,000

Gross Domestic Product (GDP):
US\$ 1.126 billion (2023)

NDC 2.0 Timeline:



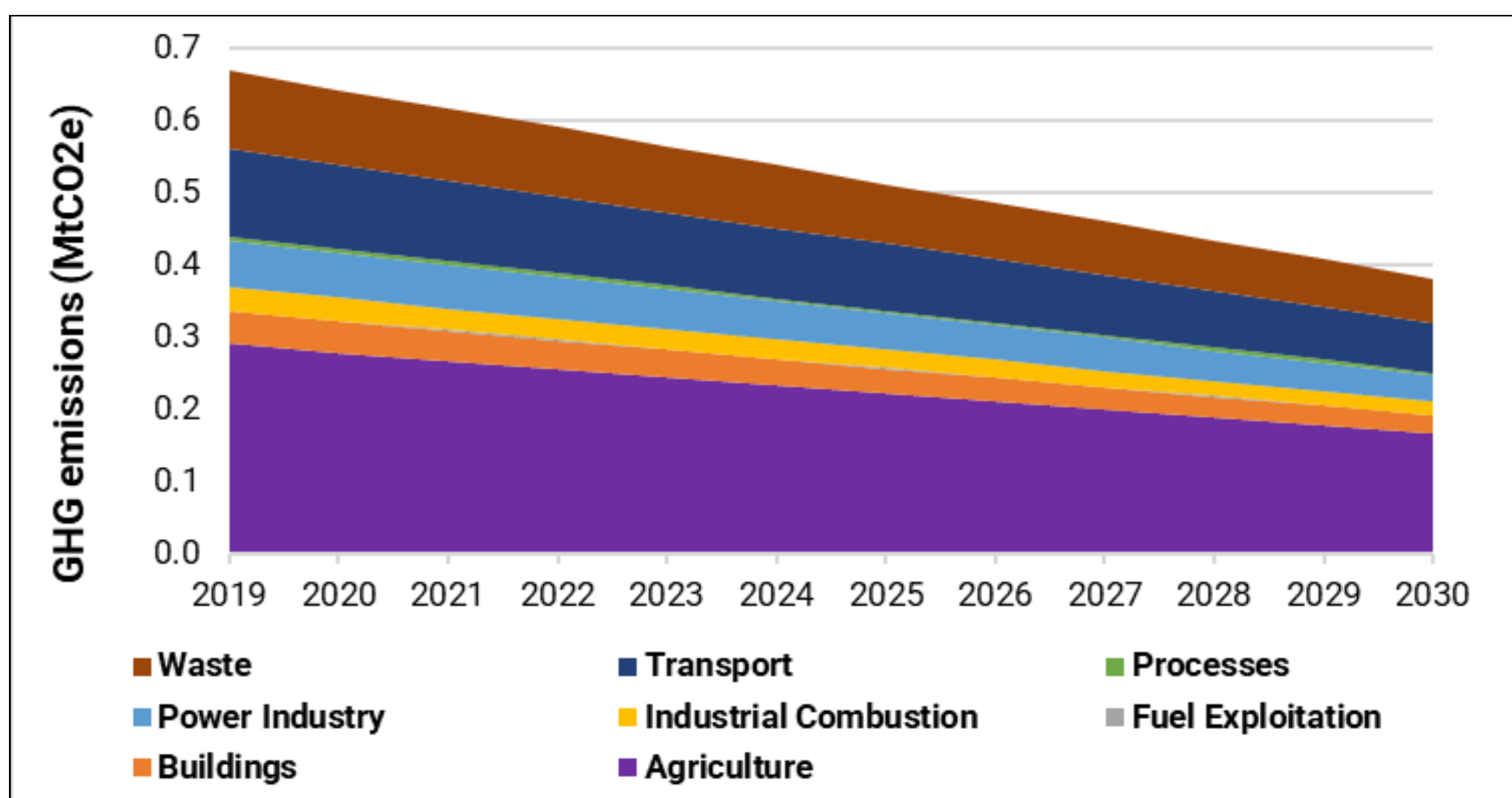
NDC 2.0 Ambitions (projected emissions, 2030)

Total emissions for a 1.5°C pathway: 0.45 MtCO₂e

NDC 2.0 commitment, total emissions: 0.49 MtCO₂e

8% Gap

Sectoral emissions consistent with recommended 43% reduction target*



*To keep within the 1.5°C global warming goal, the IPCC recommends cutting emissions by 43% by 2030 (against a 2019 baseline), reaching a 60% reduction by 2035 compared to 2019 levels.



FACT SHEET

NDC 2.0 Ambitions: The Marshall Islands



Country Overview



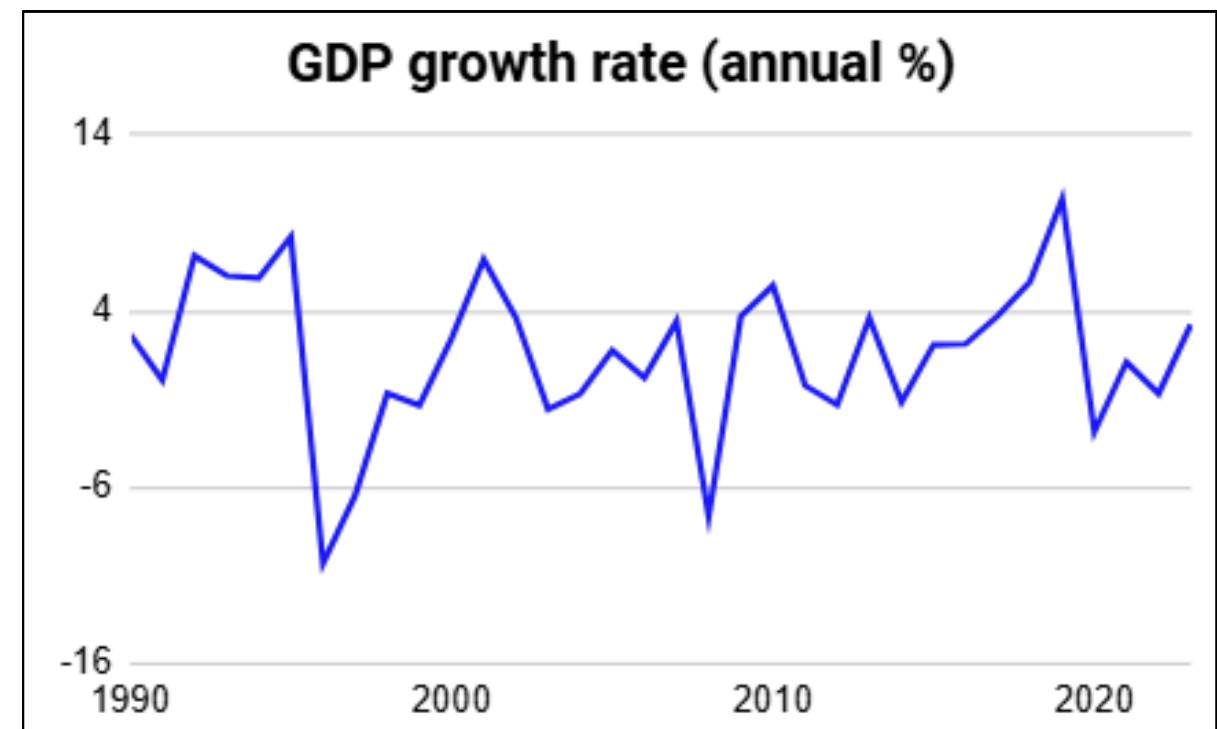
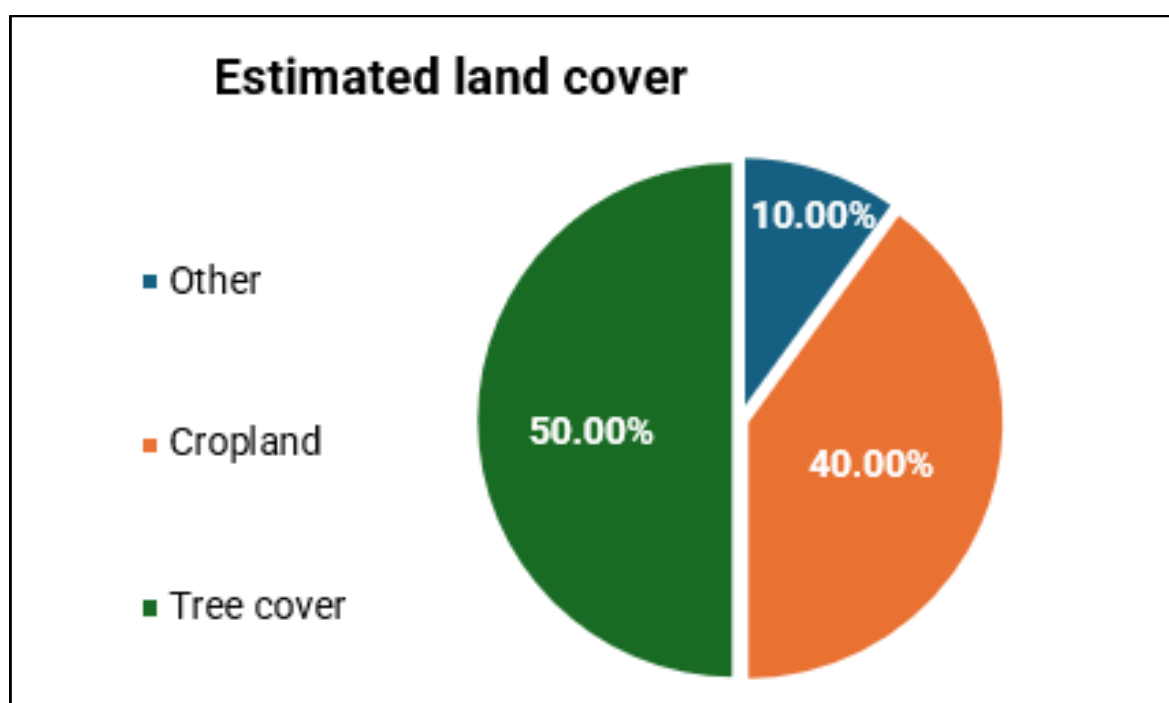
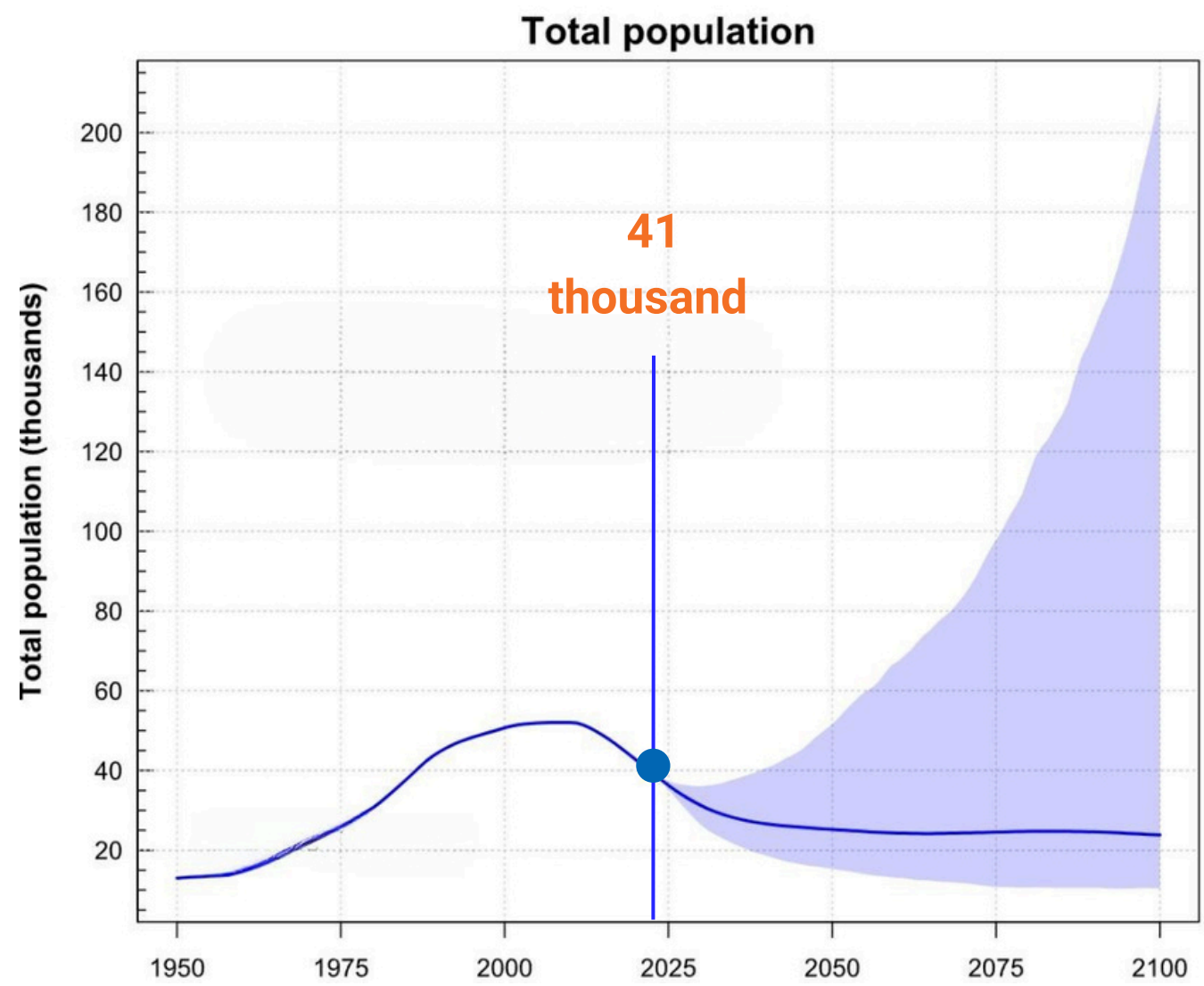
Size: 181 square km

Subregion: Pacific

Population: 41,000

Gross Domestic Product (GDP):
US\$ 284 million (2023)

NDC 2.0 Timeline:



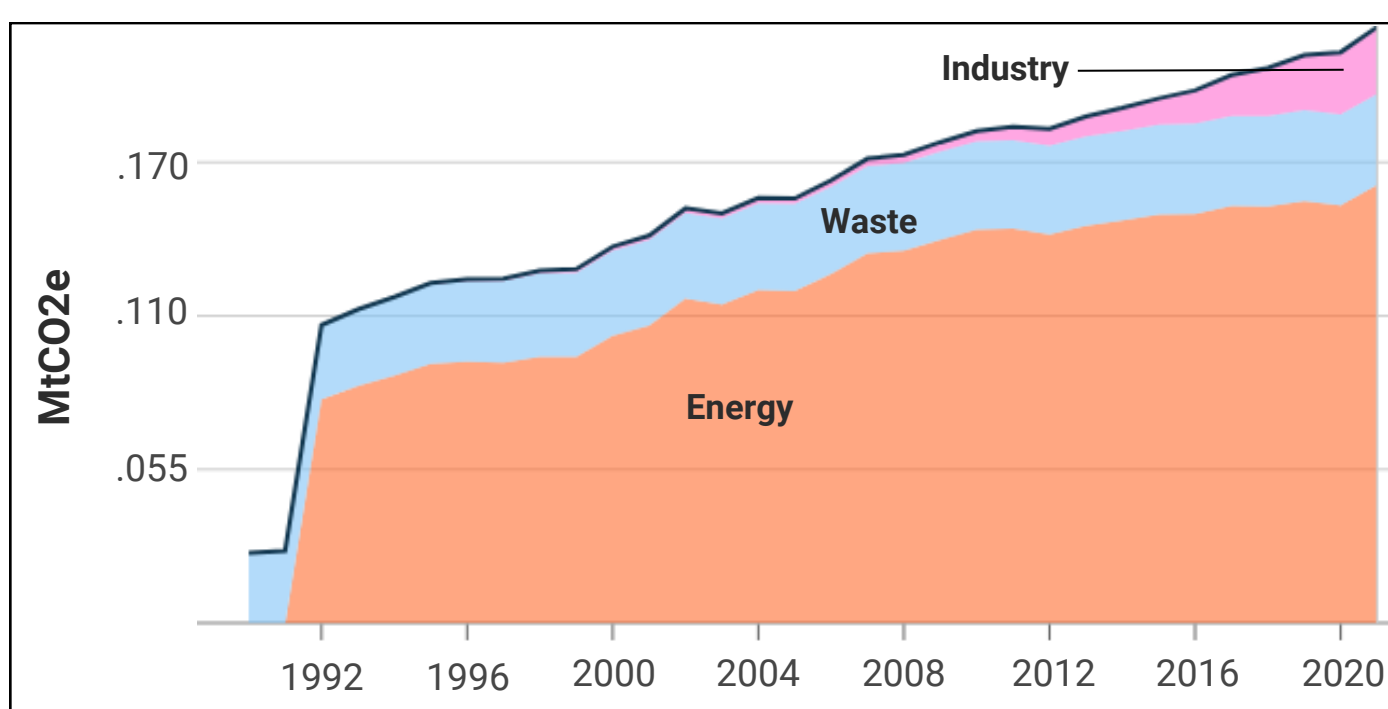
NDC 2.0 Ambitions (projected emissions, 2030)

Total emissions for a 1.5° C pathway: 0.09MtCO₂e

NDC 2.0 commitment, total emissions: 0.097MtCO₂e

12% Gap

Total greenhouse gas emissions



Left: Yearly total emissions from 1990-2021

Below: Breakdown of total emissions in 2021 by sector

Source: Climate Watch Historical GHG Emissions. 2022. Washington, DC: World Resources Institute. Available online at: <https://www.climatewatchdata.org/ghg-emissions>

Charts modified by the author

Sectoral emissions (2021)





Fact Sheet Sources

Acknowledgements:

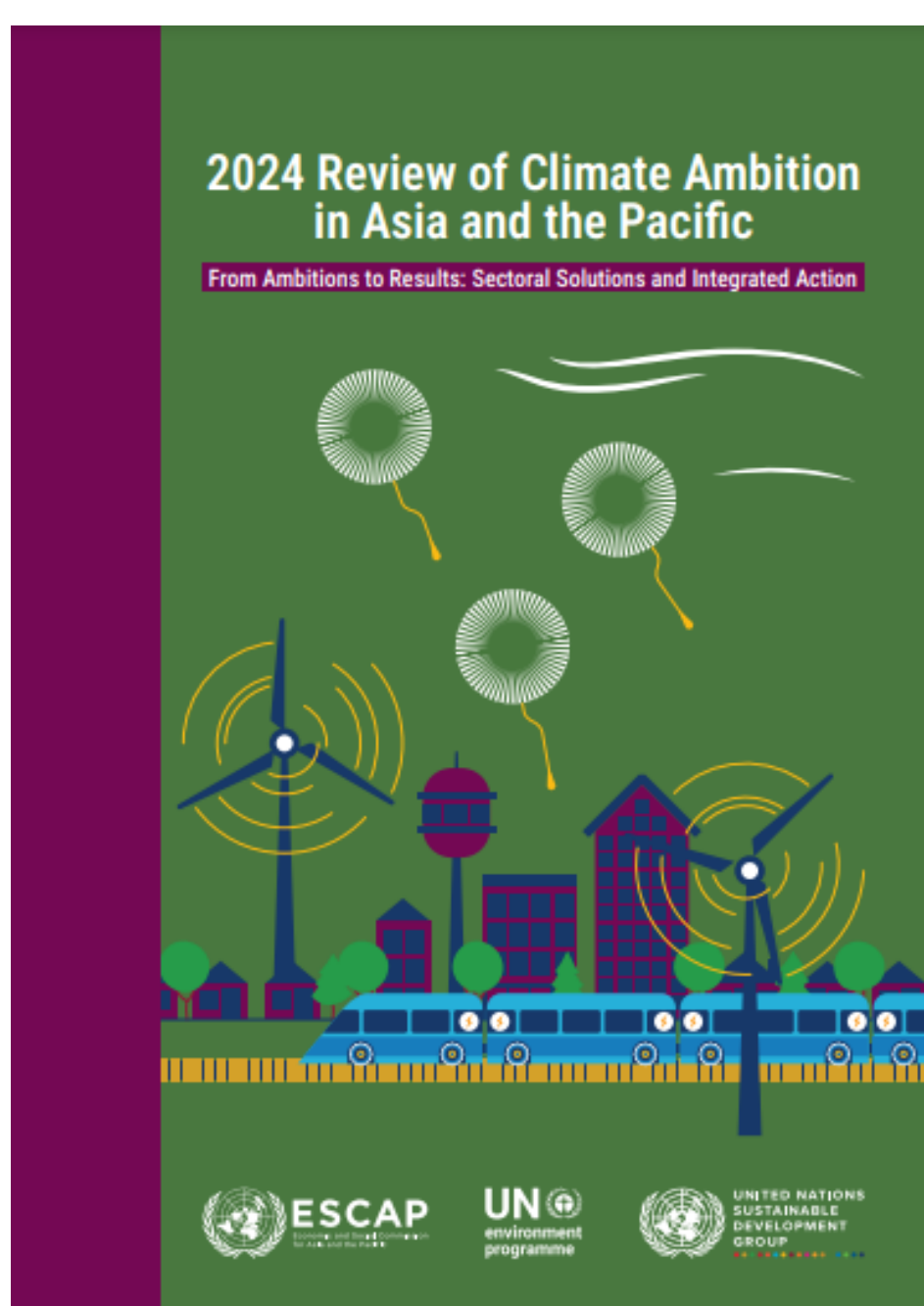
These factsheets were prepared under the guidance of Aneta Nikolova (Environmental Affairs Officer, ESCAP) by Christian Mortelliti (sustainability consultant, ESCAP) with emissions data provided by Poonperm Vardhanabindu (Chief Technical Officer, Azolla Climate).

Sources:

- **Emissions data:** provided by Poonperm Vardhanabindu; data for the Marshall Islands sourced separately.
- **Country size data:** Obtained from *Encyclopædia Britannica* online, "[list of the world's largest countries and dependencies by area](#)," accessed October 2024.
- **Population data:** Obtained from the United Nations Population Division.
- **GDP data:** Obtained from the World Bank Group, "[GDP growth \(annual %\)](#)," accessed October 2024.
- **NDC timeline:** Obtained from the NDC Partnership, "[Country Action](#)," accessed November 2024.
- **Land cover data:** Baseline data obtained from [FAOSTAT](#), using 2019 data from Copernicus Global Land Service (CGLS). This data was compared against additional data from the World Bank Group, Food and Agriculture Organization of the United Nations, CIA World Factbook, and other sources before being subsequently adjusted. **Note: accurate land cover data is hard to obtain and varies by source, so these estimations are intended to be more indicative rather than precise.*

See more:

For more on climate ambitions in Asia and the Pacific, see the "[2024 Review of Climate Ambition in Asia and the Pacific: From Ambitions to Results: Sectoral Solutions and Integrated Action](#)" report by following the link or scanning the QR code below.



Scan to access the report



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