KINGDOM OF MOROCCO
MINISTRY OF ENERGY, MINES AND SUSTAINABLE DEVELOPMENT
DEPARTMENT OF SUSTAINABLE DEVELOPMENT

# First Biennial Transparency Report

## Facilitative, Multilateral Consideration of Progress (FMCP4)

SBI 65 / COP31 · Antalya, Türkiye · 9 November 2026

# National Context of Morocco

**36.8 M**

inhabitants (2024),
62.8% urban

**710,850**

km², 12 regions,
desert to high Atlas



**–71%**

dam inflows vs. average
in 2023-2024

**+1.5 °C**

warming since the early
20th century

**< 650 m³**

water per person per year
(2,500 m³ in 1960)

# A maturing transparency system




*Morocco hosted COP7 (2001) and COP22 (2016). BTR1 prepared with GEF support through UNDP.*

## Institutional arrangements

**National GHG Inventory System**

SNI-GES, Decree 2-18-74 (2019)

**National Commission on Climate Change and Biodiversity**

CNCCDB, Decree 2-19-721 (2020)

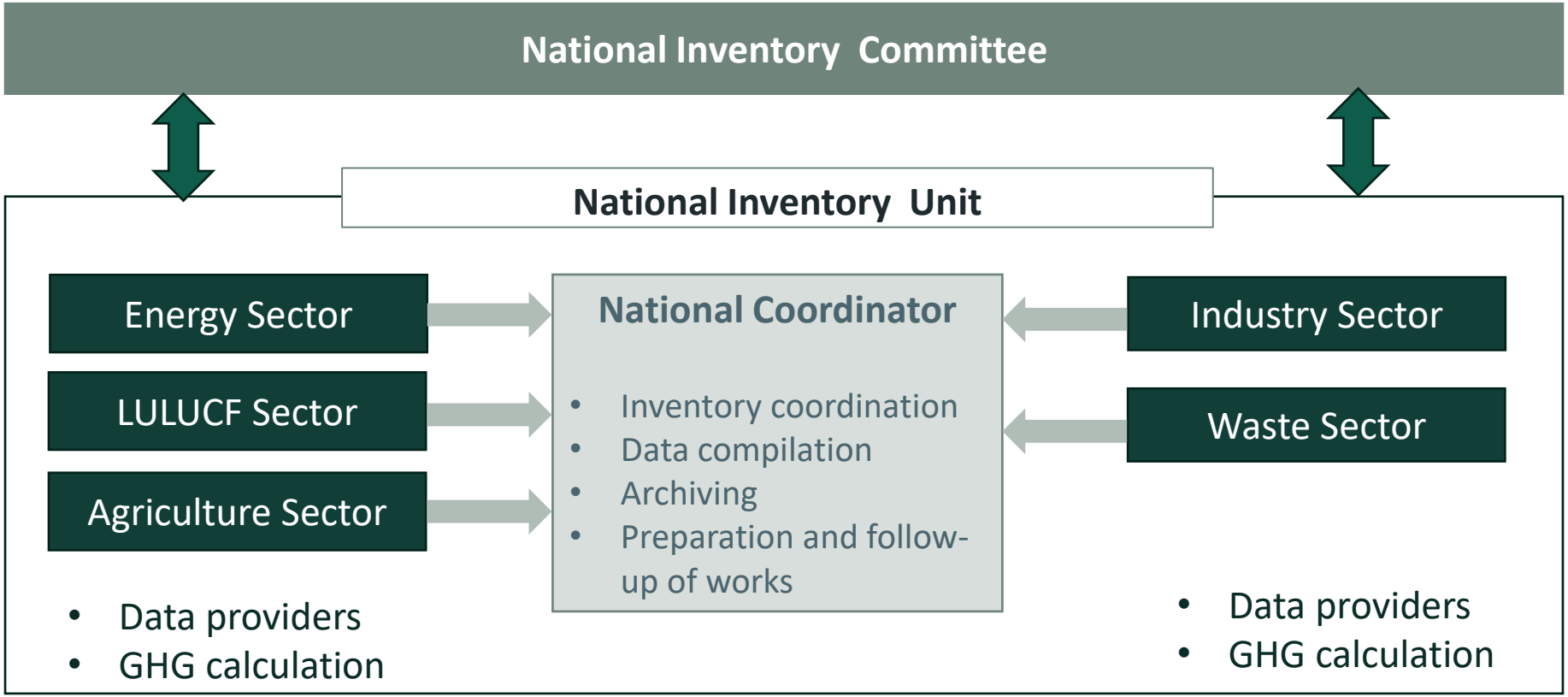
**Climate Unit**

Ministry of Economy and Finance

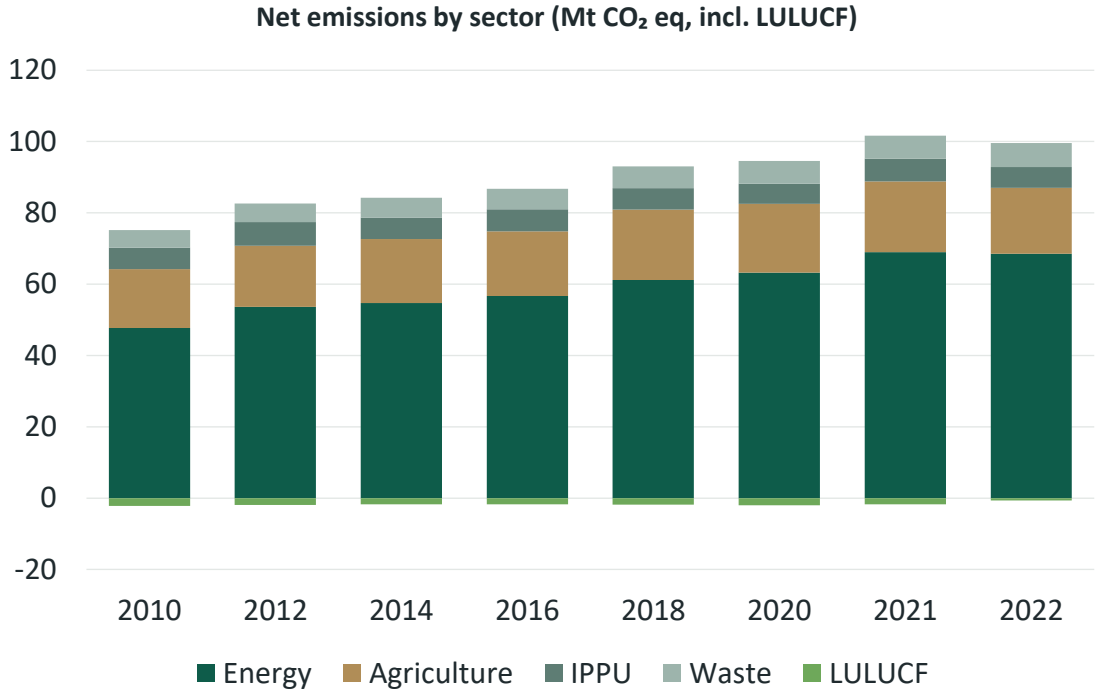
**Climate change law and institutional arrangements for Article 6**

Process under approval

# Focus on GHG inventory arrangements



# National GHG inventory, 2010-2022




**98.9 Mt**

net emissions in 2022 ($CO_2$ eq, incl. LULUCF); 99.6 Mt excl. LULUCF

**+2.6% / yr**

average growth 2010-2022, close to GDP (+2.4%)

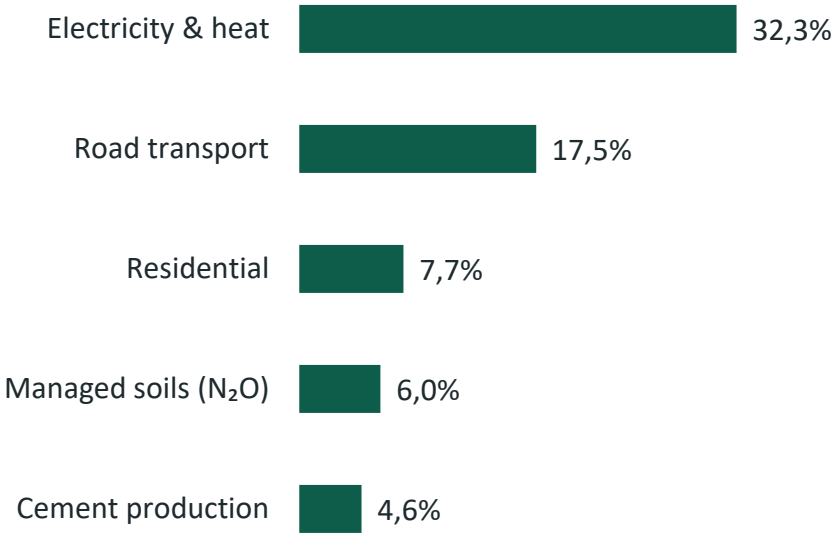
**2.7 t**

$CO_2$ eq per person in 2022

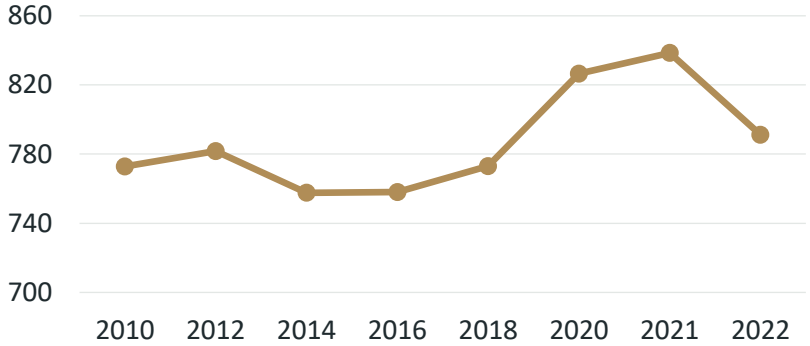
*IPCC 2006 Guidelines, AR5 GWPs. Gases: $CO_2$, $CH_4$, $N_2O$, HFCs. The LULUCF sink fell from −2.2 to −0.7 Mt $CO_2$ eq (2010-2022), mainly due to forest fires.*

# Emission drivers and carbon intensity

**Top 5 key categories (% of 2022 emissions)**




**Emission intensity of GDP (kg $CO_2$ eq / 1,000 USD)**




**COVID-19 temporarily raised intensity in 2020-2021;** it fell again in 2022.

# Morocco's NDC 2.0 vs NDC 3.0

## NDC 2.0

submitted 2021 · target year 2030

**45.5%** GHG reduction vs. business as usual

**18.3%** unconditional **27.2%** conditional

- 61 mitigation measures (34 unconditional, 27 conditional)
- Mitigation cost: USD 38.8 bn
- Adaptation needs: about USD 40 bn

## NDC 3.0

submitted 2025 · target year 2035

**53%** GHG reduction vs. business as usual

**21.6%** unconditional **31.4%** conditional

- Renewables tripled to over 15 GW by 2030
- Coal phase-out by 2040 (conditional on support)
- Mitigation USD 60 bn; adaptation USD 36.1 bn (2026-2035)

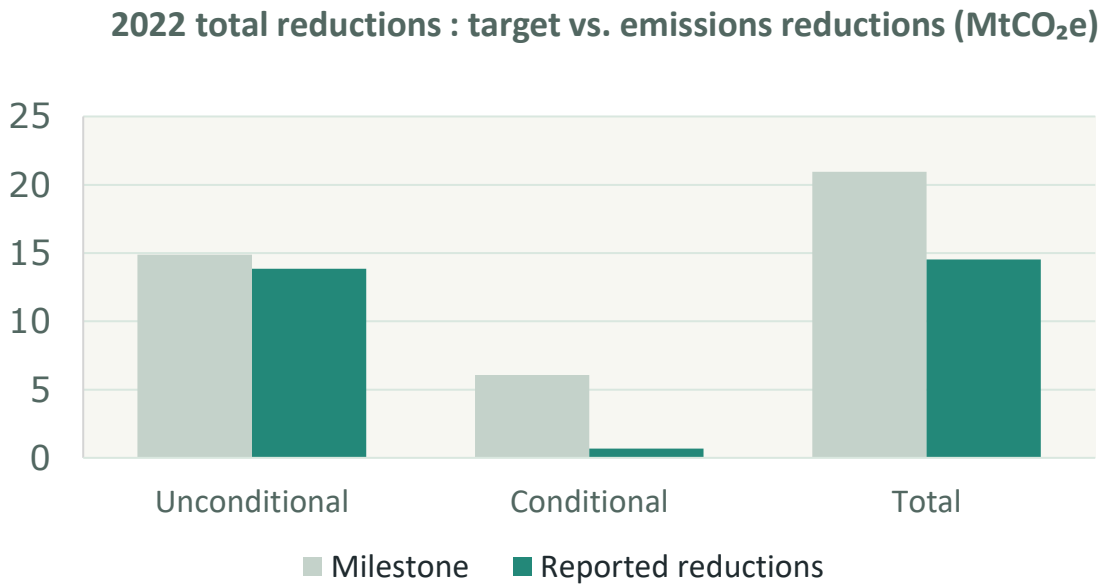
**Long-term anchor:** Low-Emission Development Strategy (LT-LEDS, 2021) and National Low Carbon Strategy 2050, with a net-zero vision for 2050

# Progress against the 2022 milestones

**93%** of the 2022 unconditional milestone achieved

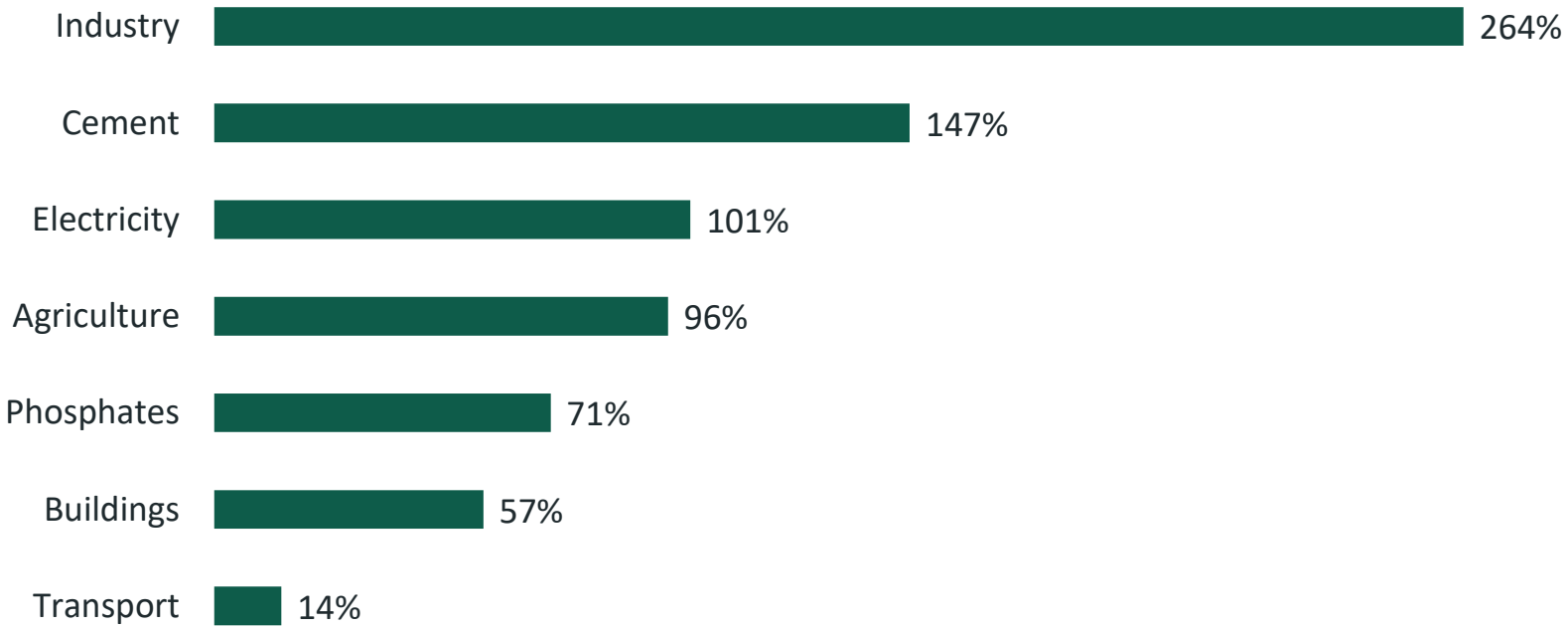
**11%** of the conditional milestone, reflecting limited support

**13.9 Mt** $CO_2$ eq avoided in 2022 vs. the NDC baseline




**69.3%** Overall (unconditional + conditional)

# Unconditional measures: 2022 reductions vs. NDC 2.0 milestone



# Mitigation in action

## Examples of NDC measures tracked in BTR1

### Power

National wind, solar and hydro plans met their 2022 milestone (100.6%). Renewable output grew 18.3% in 2023.

### Distributed solar

1,000 MWp of rooftop PV for self-consumption in homes and services, plus PV in industry.

### Industry & phosphates

Energy efficiency, cogeneration and the Khouribga–Jorf Lasfar slurry pipeline.

### Buildings

LED roll-out, efficiency standards for fridges and air conditioners, solar water heaters.

### Agriculture

Olive, fruit-tree, date-palm, cactus and argan planting.

### Transport & waste

Tramway extensions, fleet renewal, eco-driving; waste-to-energy and sludge recovery.

# Critical Climate impacts occuring in Morocco

**50.4 °C**

record at Agadir; 2023 hottest year on record

**−32%**

average rainfall deficit 2019-2022 (−80% in spring 2023)

**> +3 °C**

projected warming by 2050 across the country (SSP5-8.5)



## Water

Recharge of key aquifers may drop 20-50% by 2050



## Agriculture

2022 drought: −15.3% farm value added, 200,000 rural jobs lost



## Losses

Floods cost about USD 450 M a year; coastal erosion USD 434 M

# Adaptation to water scarcity

**20**

new dams under construction, total capacity of 27.3 bn m³ by 2027

**15**

desalination plants (277 Mm³/yr), target of 1.7 bn m³ by 2030

**542,000 ha**

under drip irrigation (128,000 ha in 2008)

**98%**

rural access to drinking water in 2022

## Building resilience to disasters

- National Strategic Adaptation Plan (PNSA 2030) and territorial climate plans
- Natural disaster fund: 323 protection projects; 47 early-warning systems
- VigiRisque flood warning (2023), 240,000 beneficiaries
- Catastrophe insurance (2020): USD 300 M paid after the 2023 Al Haouz earthquake

# Article 6: National System under development

## Legal basis

Draft climate law and two decrees (governance, authorisation); national Article 6 framework, version 7 in progress

## Pricing

Administrative and strategic fees, validated in March 2026

## Integrity

Overselling-risk study: negative list, reserves; corresponding adjustment method

## Registry

National Article 6 registry under development with CBIT support

## Partnerships

**Switzerland:** bilateral agreement (Nov 2022)

**Norway:** agreement (May 2026); 2026-2036 programme, ~2 GW potential

**Also:** Singapore, Rep. of Korea, United Kingdom

## Project pipeline

Rooftop PV (SR500), refrigerant destruction, Casablanca waste, carbon farming, e-mobility

*No ITMOs issued or transferred to date*

# Technical expert review of BTR1




**13–17 April 2026**

In-country review
Rabat

**Technical scope**

GHG inventory information
Progress in implementing NDC 2.0

## Key improvements made in BTR2

- IPCC Inventory Software used for 4 sectors
- Additional sources estimated
- QA/QC system developed for the inventory

## Flexibilities applied in BTR1 (decision 18/CMA.1)

| | |
|---|---|
| Para. 35 | QA/QC procedures applied progressively |
| Para. 48 | Gases reported: $CO_2$, $CH_4$, $N_2O$ and HFCs, as covered by the NDC |
| Para. 57 | Annual series from 2020, plus selected years from 2010 |
| Para. 92 | GHG projections not reported in BTR1 |

## Capacity needs

- Applying higher-tier methodologies and developing country-specific emission factors.
- Implementing QA/QC procedures for NDC tracking.

# The way forward

**BTR2 to submit by December 2026**

Implementation of TERR recommendations

CBNs included in the NIIP and stat of their implementation

**Delivering and tracking NDC 3.0**

2035 timeframes

**Climate law**

Governance and Article 6 rules

**Partnerships**

Finance, technology and capacity

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# شكرا· Thank you · Merci



***Morocco thanks all Parties for their questions and looks forward to a constructive, facilitative exchange.***