

Aligning Long-Term Energy Scenarios (LTES) with Long-Term Low Emission Development Strategies (LT-LEDS) to strengthen climate action

Findings from synthesis report on LT-LEDS

4th International Forum on Long-Term Scenarios for the Clean Energy Transition
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COP27 Outcome on Energy

Sharm el-Sheikh Implementation Plan

III. Energy

- Emphasizes the urgent need for immediate, deep, rapid and sustained reductions in global greenhouse gas emissions by Parties across all applicable sectors, including through increase in low-emission and renewable energy, just energy transition partnerships and other cooperative actions;
- Recognizes that the unprecedented global energy crisis underlines the urgency to rapidly transform energy systems to be more secure, reliable, and resilient, including by accelerating clean and just transitions to renewable energy during this critical decade of action;
- Stresses the importance of enhancing a clean energy mix, including low-emission and renewable energy, at all levels as part of diversifying energy mixes and systems, in line with national circumstances and recognizing the need for support towards just transitions;

IV. Mitigation

- Calls upon Parties to accelerate the development, deployment and dissemination of technologies, and the adoption of policies, to transition towards low-emission energy systems, including by rapidly scaling up the deployment of clean power generation and energy efficiency measures, including accelerating efforts towards the phasedown of unabated coal power and phase-out of inefficient fossil fuel subsidies, while providing targeted support to the poorest and most vulnerable in line with national circumstances and recognizing the need for support towards a just transition;
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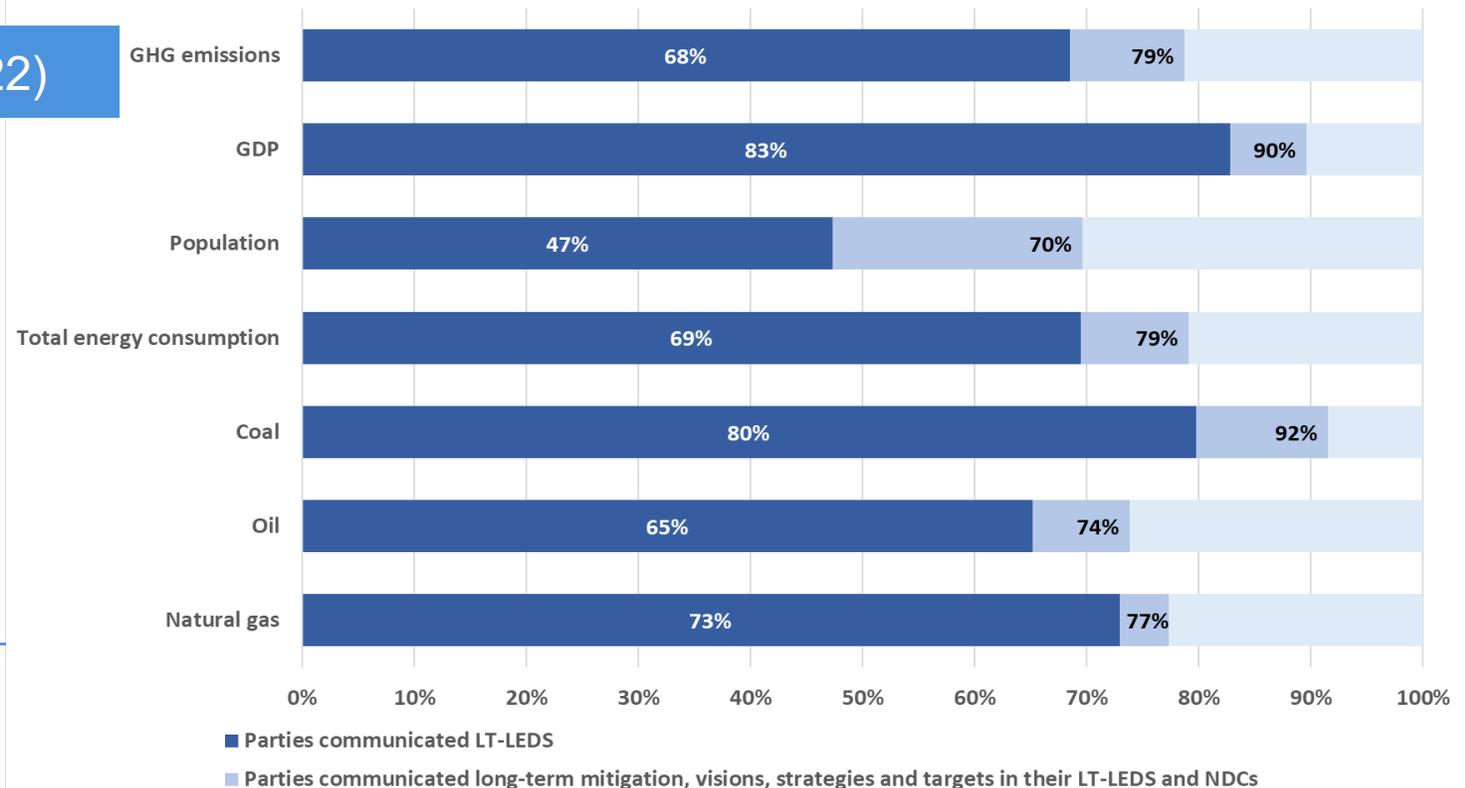
LT-LEDS synthesis report

Long-Term Low Emission Development Strategies (LT-LEDS)

- The Paris Agreement stated that all Parties should strive to formulate and communicate LT-LEDS.
- Glasgow Climate Pact (2021) and Sharm el-Sheikh Implementation Plan (2022) urged Parties that have not yet done so to communicate LT-LEDS towards just transitions to net zero emissions by or around mid-century, taking into account different national circumstances.

Synthesis report on LT-LEDS (26 October 2022)

- The report synthesized information from the 53 latest available LT-LEDS, representing 62 Parties to the Paris Agreement, including 4 updated LT-LEDS, recorded on UNFCCC website as at 23 September 2022



Scenarios and projections of emissions and removals

(Findings in LT-LEDS synthesis report)

Long-term mitigation goal in LT-LEDS

- Long-term mitigation goals described in LT-LEDS
 - ✓ 62% net zero GHG emissions
 - ✓ 6% net zero CO₂ emissions
 - ✓ 15% net zero emissions with unclear gas coverage
 - ✓ 19% LT-LEDS did not contain a goal related to net zero emissions

What is the benefit of using scenario-based LT-LEDS?

- 72% LT-LEDS indicated that Parties considered emissions scenarios and projections during its preparation. In addition, 8% LT-LEDS indicated that Parties will develop an emissions scenario as a follow-up.
- 60% LT-LEDS described multiple scenarios for considering different pathways of technology development and interdependency among sectors (e.g. the share of renewable energy in electricity production and electrification rate of energy end-use sectors).
- 53% LT-LEDS reported a scenario based on ‘business as usual’ and ‘with existing measures’ to identify additional policy interventions required to achieve long-term mitigation goal.

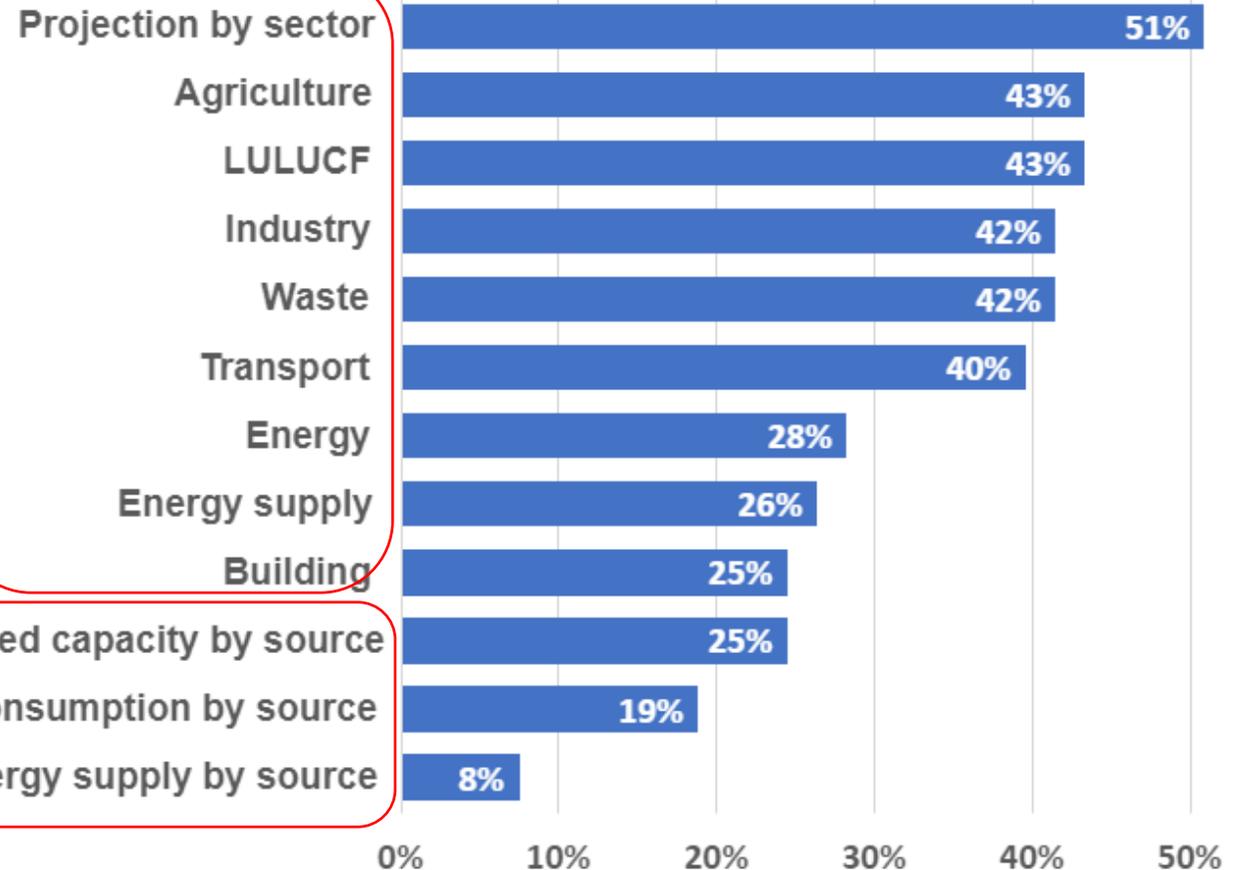


Scenarios and projections of emissions and removals (Findings in LT-LEDS synthesis report)

Sector-level scenarios in LT-LEDS

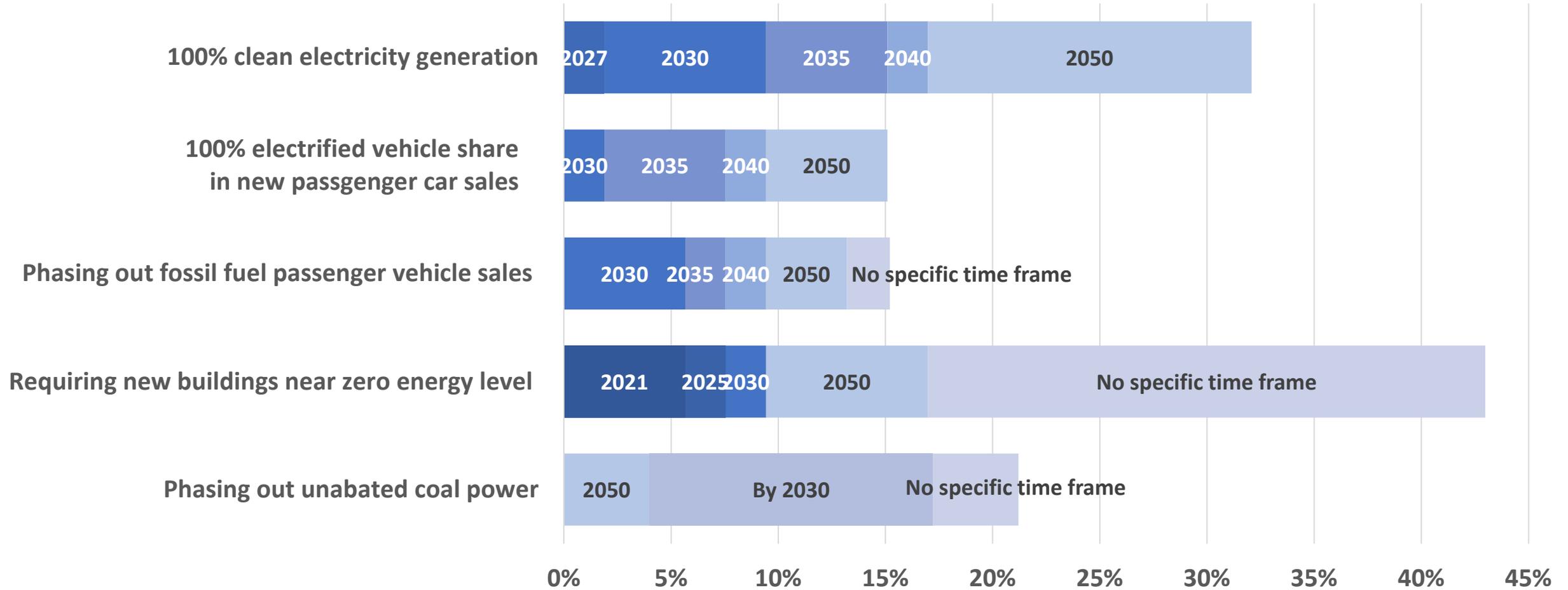
How can the use of LTES facilitate inter-ministerial coordination for developing LT-LEDS?

- 51% LT-LEDS described sector-level projections of emissions and removals
(All of 51% LT-LEDS with sectoral projections referred to energy elements while several categories were used: e.g. 28% Energy sector as a whole, 40% Transport, 25% Building)
- 28% LT-LEDS included projections with a focus on energy (e.g. electricity generation by source)



Example of quantitative targets on energy

(Findings in LT-LEDS synthesis report)



Institutional arrangements

(Findings in LT-LEDS synthesis report)

What levels of coordination are required to efficiently link LTES with LT-LEDS?

- 84% LT-LEDS indicated that institutional arrangements are crucial components for planning, coordinating and implementing climate change policy and action and for integrating climate change aspects into broader development planning.
- 57% LT-LEDS mentioned high-level governance settings for long-term low-emission development planning and for implementation of LT-LEDS, including those under the authority of the highest levels of national government, as well as within the framework of an ad hoc interministerial body with a coordinating function.
- 35% LT-LEDS referred to thematic working groups for sectoral experts and stakeholders to exchange views and information with policymakers, generally under the umbrella of a designated public body.
- 29% LT-LEDS described mandates, functions and objectives of consultative and advisory bodies composed of members appointed for their expertise, including generating climate-related knowledge based on the best available science, such as advice and recommendations for decision-making.
- 38% LT-LEDS indicated that their long-term mitigation goal is formalized under national legislation.



Thank you

For any inquiries please contact: LT-LEDS@unfccc.int

Information on Long-term low emission development strategies

<https://unfccc.int/process/the-paris-agreement/long-term-strategies>

Synthesis report on LT-LEDS

<https://unfccc.int/lt-leds-synthesis-report#Planning-and-implementation>

