



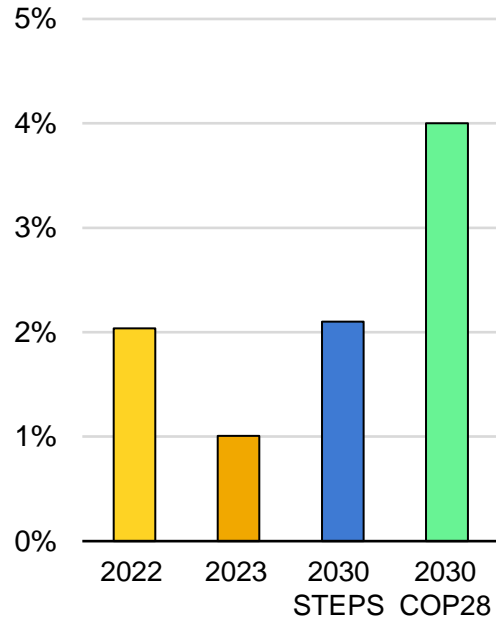
The role of buildings in achieving COP28 goals

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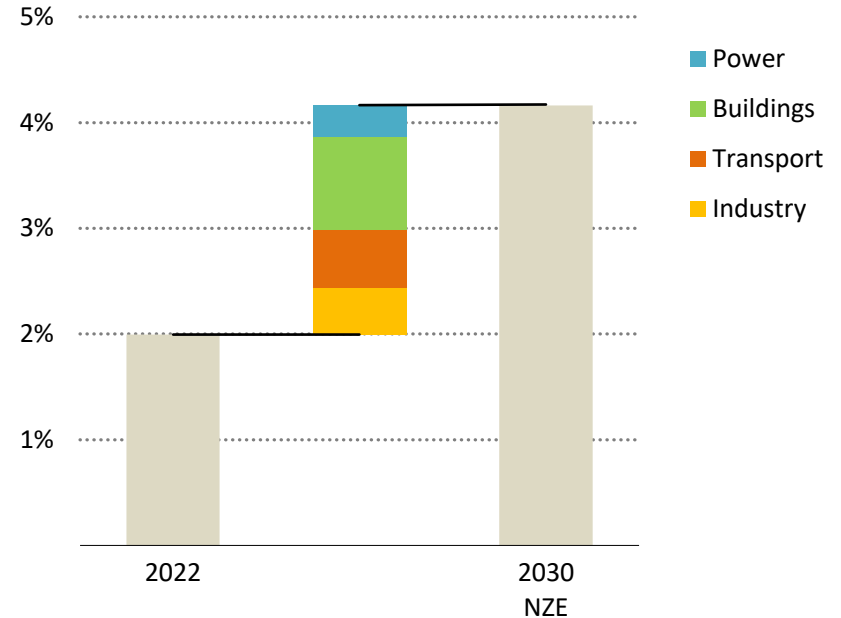
18 November 2024

The world is not on track for the COP28 efficiency target

Energy efficiency progress towards the COP28 outcome under today's policies and COP28 Full Implementation Case



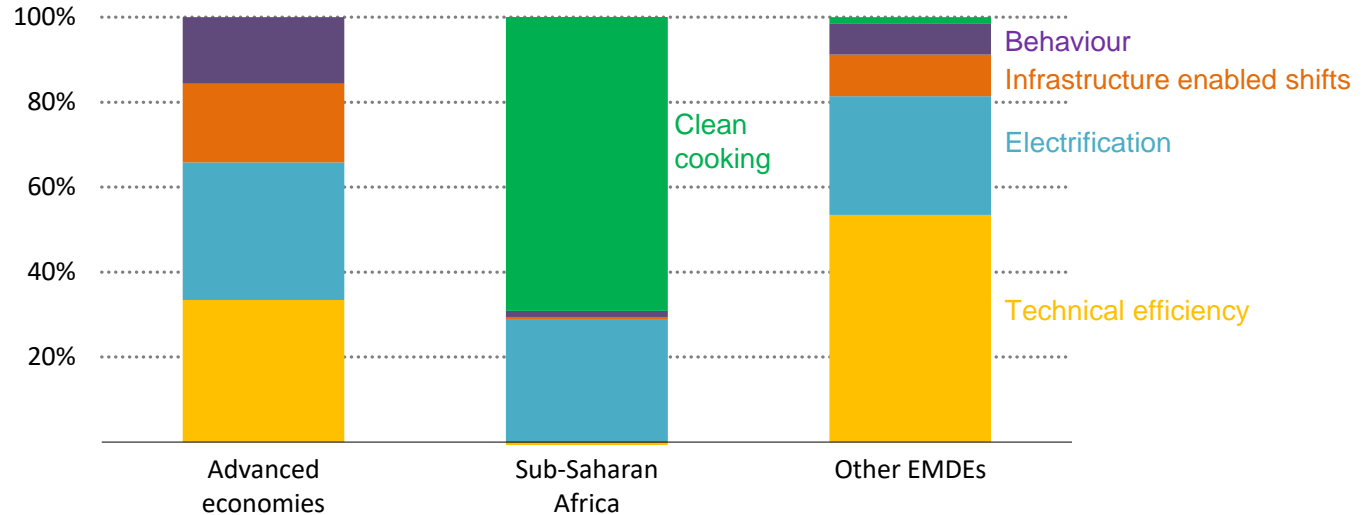
Rate of annual primary energy intensity improvement by sector in the NZE Scenario



Under current policies and due to recent developments, the world falls short of meeting the goal of doubling the global average annual rate of energy efficiency improvements by 2030. Buildings bring the greater energy savings.

Role of buildings in achieving COP28 efficiency target

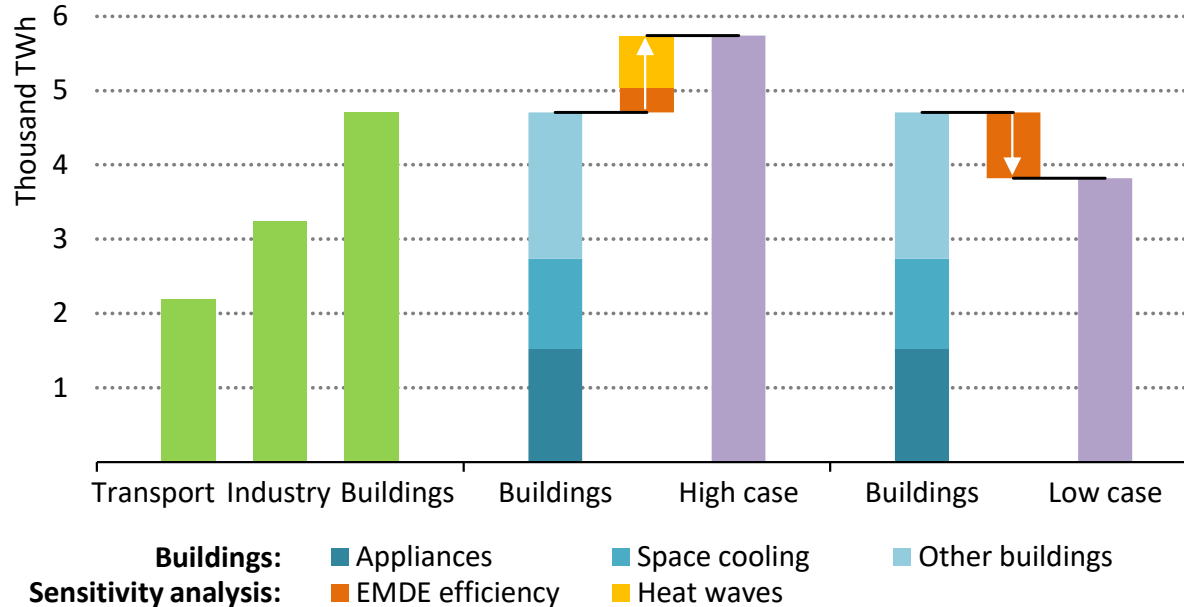
Share of improvement in energy efficiency by region and energy efficiency measure, 2023 - 2030



In advanced economies, the focus is on electrification; in emerging market and developing economies, technical efficiency standards for new equipment is key; in Sub-Saharan Africa, clean cooking brings efficiency gains

A slower adoption of heat pumps and increasing cooling needs are reasons for concern

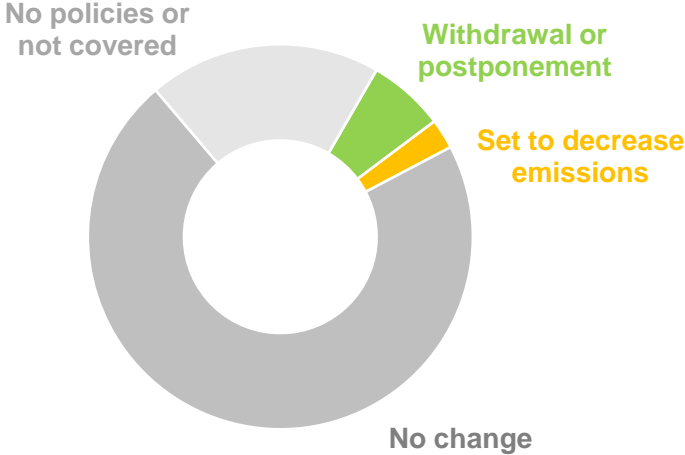
Electricity demand growth by sector under current policies and selected buildings sector sensitivity analysis, 2023-2035



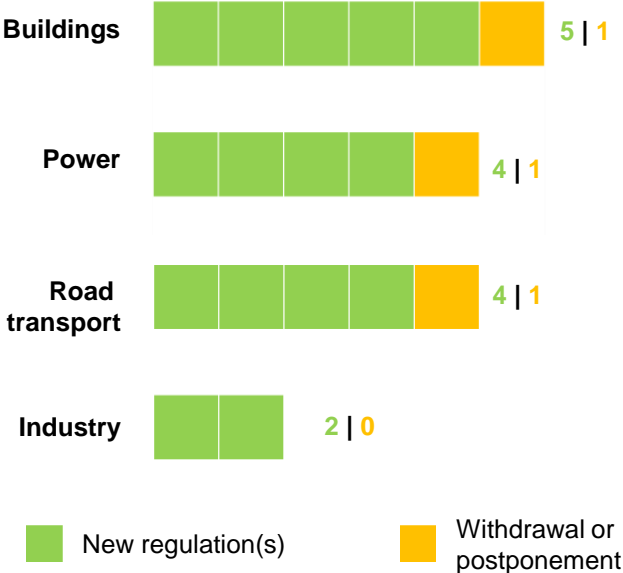
In absolute terms, the buildings sector is set to see the most growth in electricity demand to 2035 in the STEPS; sensitivity analysis show that this could increase further

Promising progress in energy efficiency policy continue

Share of buildings emissions covered by policy changes between Sept 2023 and 2024 (%)



Number of G20 countries with at least one change in sectoral policy setting

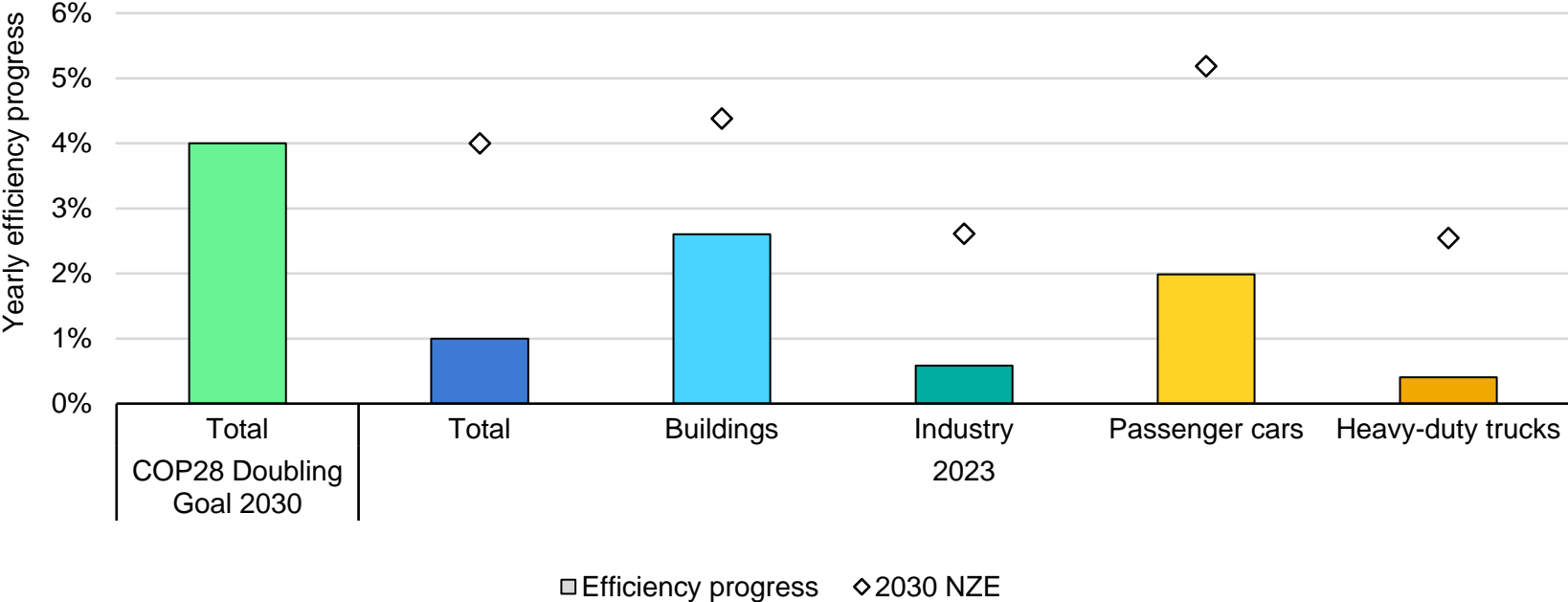


Efficiency standards for new buildings and appliances gained ground in 2023, although some policies targeting existing buildings face legal challenges and public push-back

Buildings efficiency progress is better than in other sectors



Global annual improvement in primary energy intensity, by sector 2023, and rate needed to achieve the COP28 doubling goal



The world is not on track to achieve the COP28 Doubling Goal across all sectors. Buildings and passenger cars show better progress than other sectors, but more action is needed.

Key actions to double the rate of energy efficiency improvement in buildings

- **Establish building energy codes** for new construction and major renovations in all countries.
- Increase the **share of zero carbon ready buildings** in new construction by mainstreaming **on-site generation of renewables** and measures to **reduce embodied emission**.
- Strengthen **minimum energy performance standards** to improve the technical efficiency of energy using equipment.
- Expand **targeted incentives** to ensure **affordability of retrofits and heat pumps** for vulnerable groups.
- Deliver **access to electricity and clean cooking for all**, bringing about a switch to more efficient and less polluting fuels.

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