

Mitigation of Climate Change – TRANSPORT

Subash Dhar
Senior Researcher, UNEP CCC

Webinar

Upscaling E-Mobility in Developing Countries for Climate Mitigation

7 July 2022

UN
environment
programme

copenhagen
climate centre

supported by

 **UNOPS**

[Credit: Teekay.]

Transport emissions

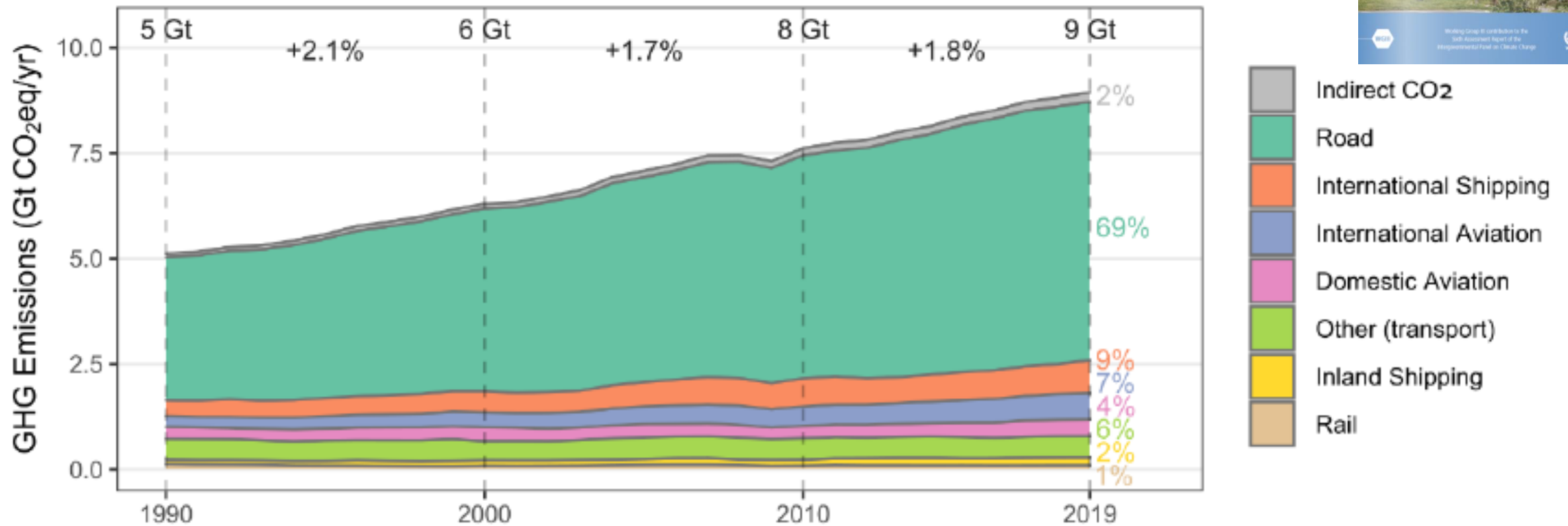
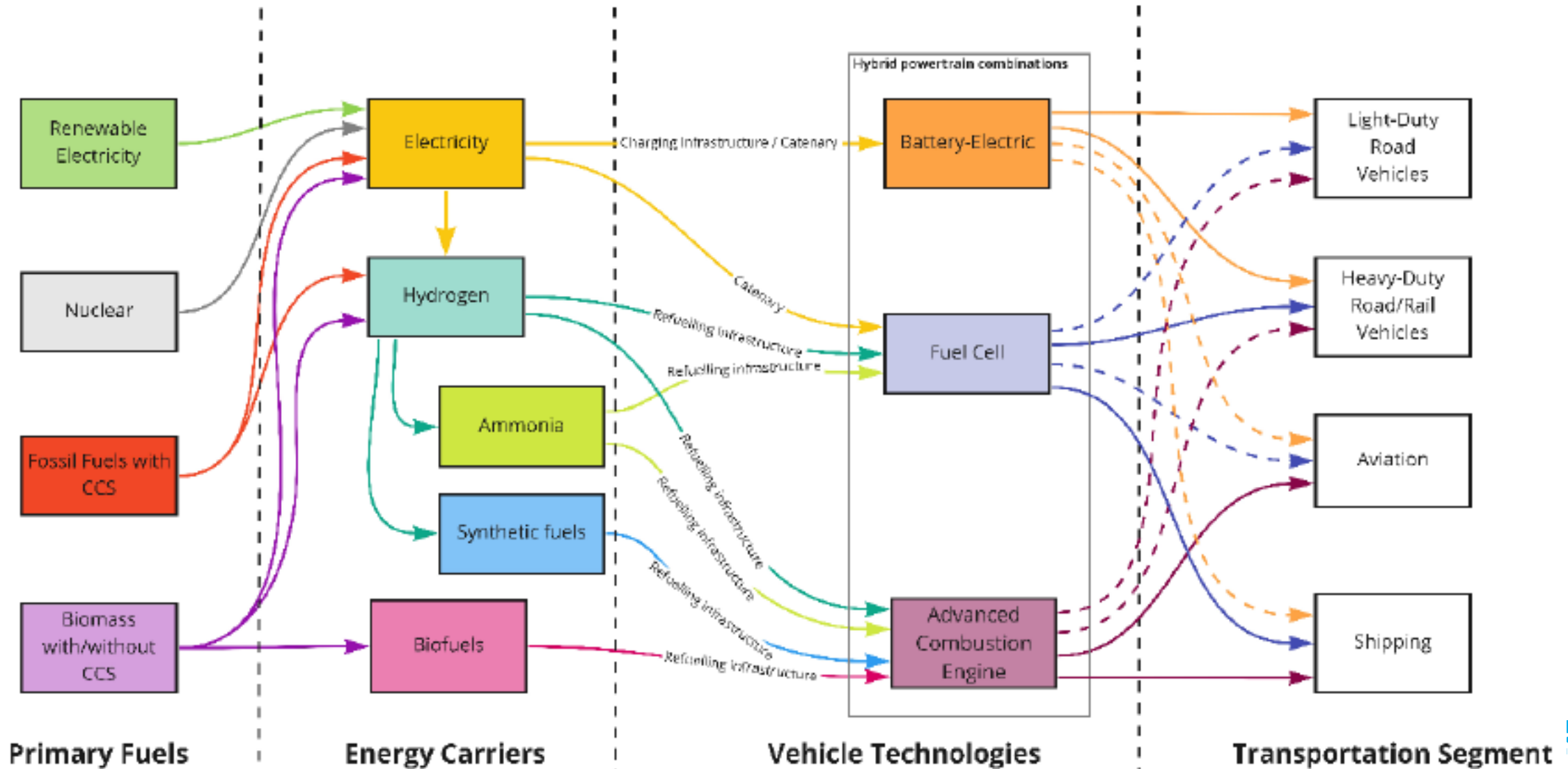


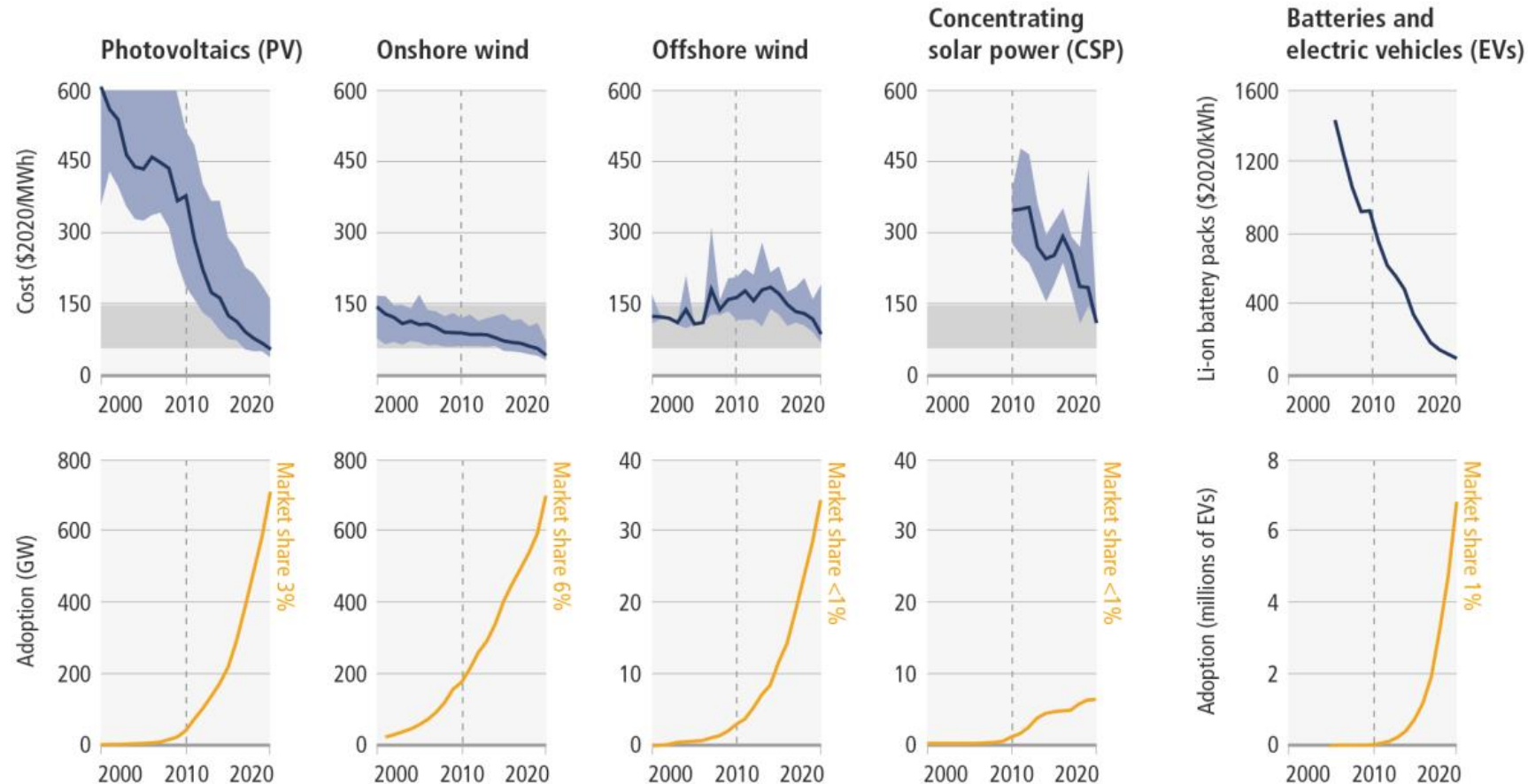
Figure 2.13a

Transport Sector emissions increased share from 13% in 1990 to 15% in 2019

Pathways for decarbonizing transport technologies



Key Technology Trends

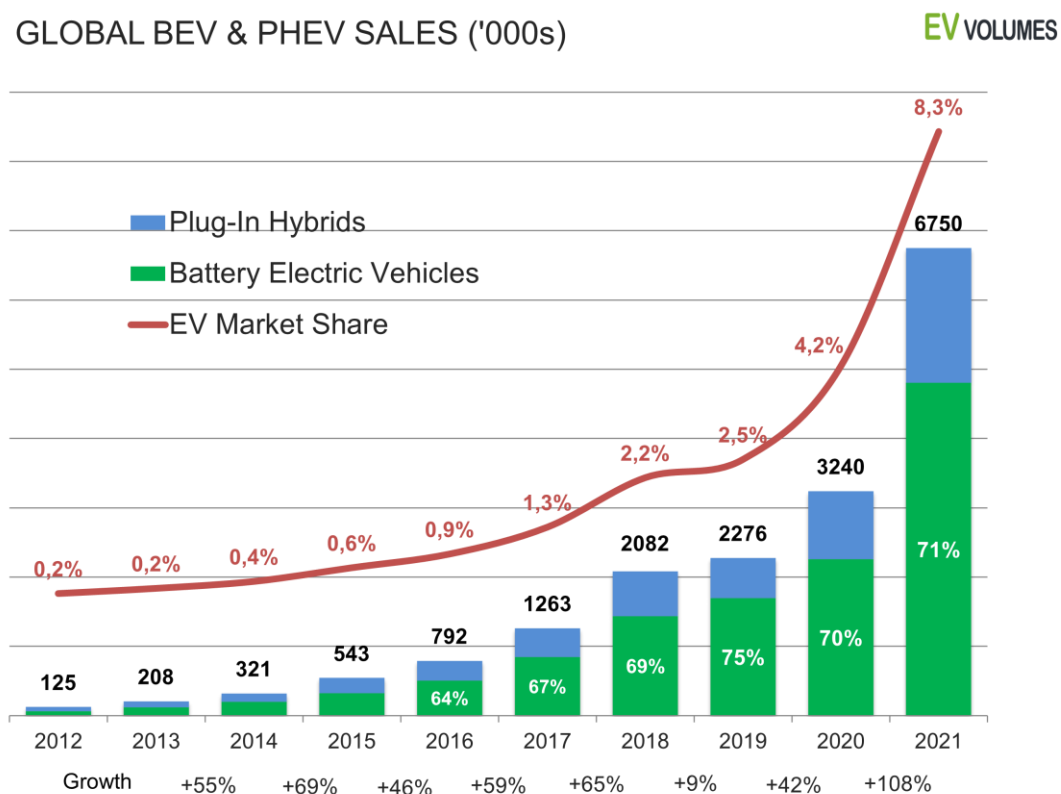


— Market cost
 — Adoption (note different scales)
 - - - AR5 (2010)
 ■ Fossil fuel cost (2020)

Source: IPCC, 2022 Sixth Assessment

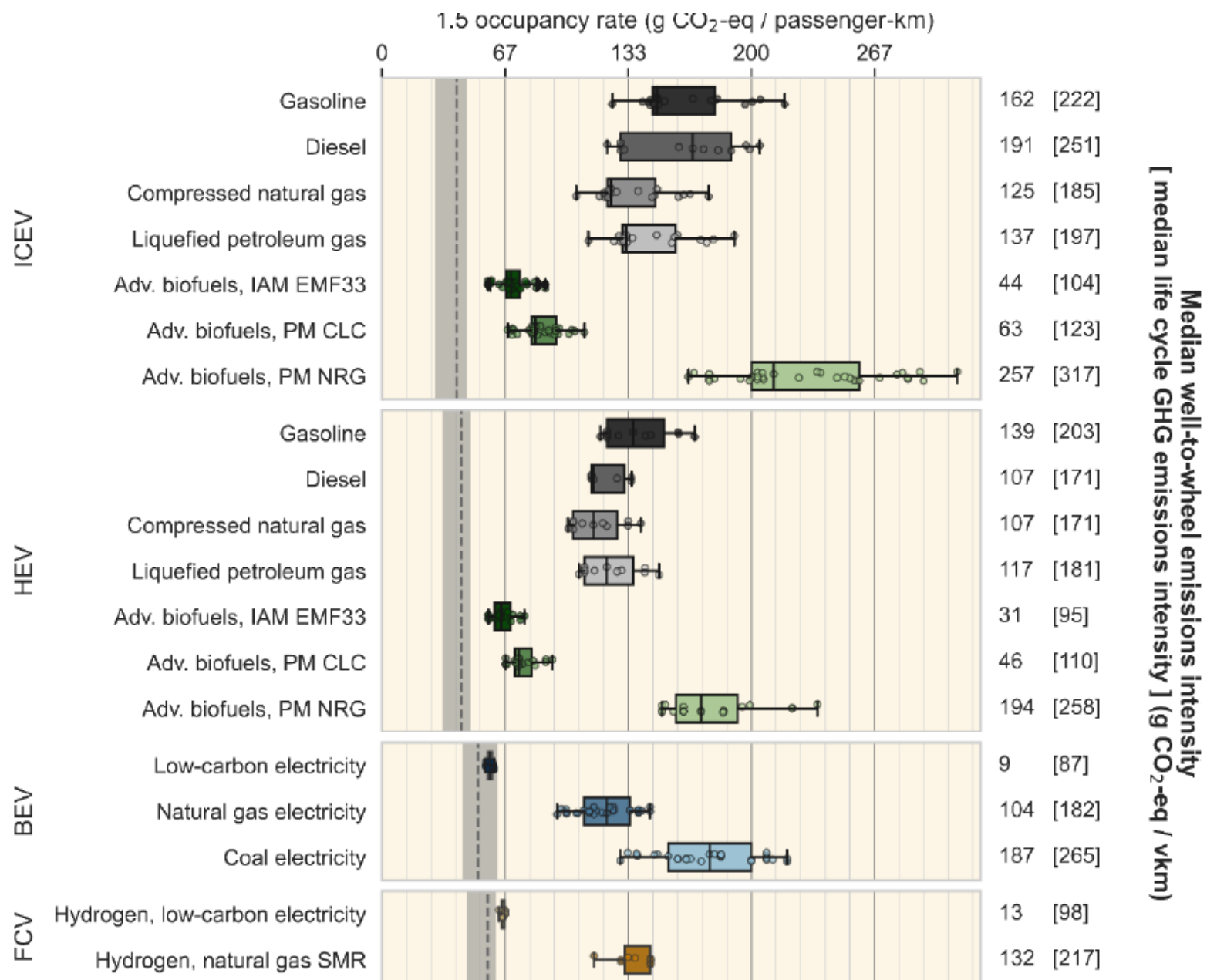
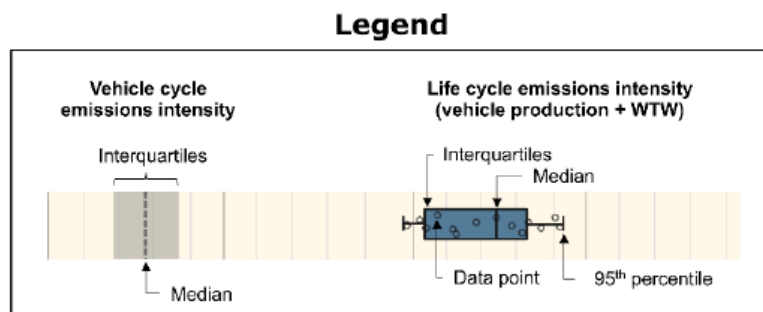
Trends in EVs

GLOBAL BEV & PHEV SALES ('000s)



- Electric vehicles powered by low-emissions electricity offer the largest decarbonisation potential for land-based transport,” IPCC SPM C8
- Upcoming Challenges
 - Increasing costs of raw materials
 - Disposal of batteries

Life cycle emissions of different technologies for LDVs



E Mobility at COP26

A number of emerging markets to **accelerate the transition to ZEVs** in their markets (including African countries - Rwanda, Kenya)

A new World Bank trust fund to mobilise **\$200 million** over the next 10 years to **decarbonise road transport in emerging markets and developing economies**.

The **Zero Emission Vehicle Transition Council (ZEVTC)** to launch its first annual Action Plan for sustained international cooperation to accelerate the transition

A new declaration signed by more than **100 national governments, cities, states and major car companies on zero-emission cars** and vans to end the sale of internal combustion engines by 2035 in leading markets, and by 2040 worldwide.

Innovation, Industry and Jobs



Ampersand, Rwanda's Electric Motorcycle Startup Secures \$9 million Funding



Opibus: The mobility startup converting Kenya to electric vehicles