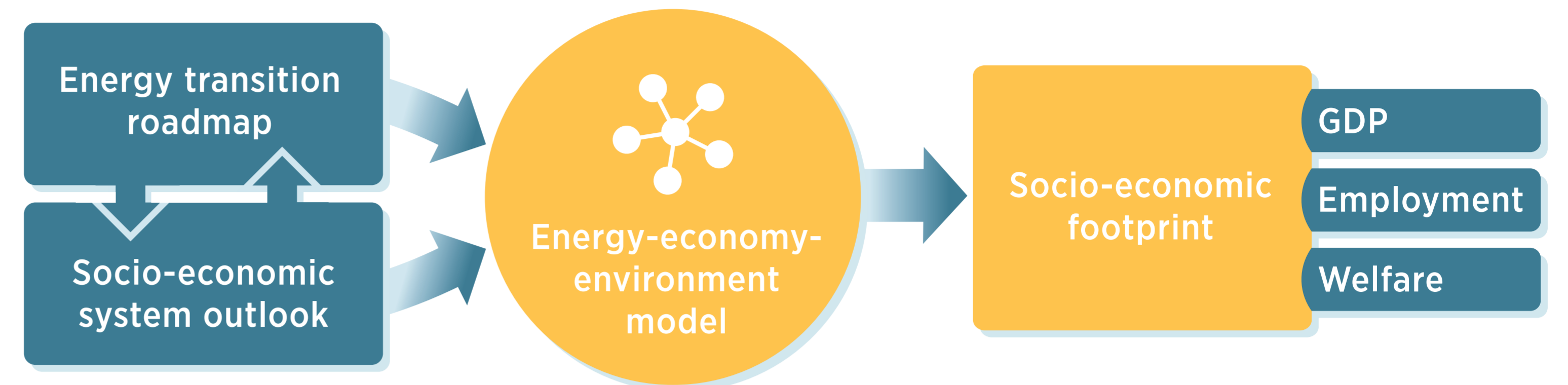


BROAD BENEFITS OF ENERGY TRANSITION TOWARDS 2050

SOCIO-ECONOMIC BENEFITS OF RENEWABLE ENERGY DEPLOYMENT

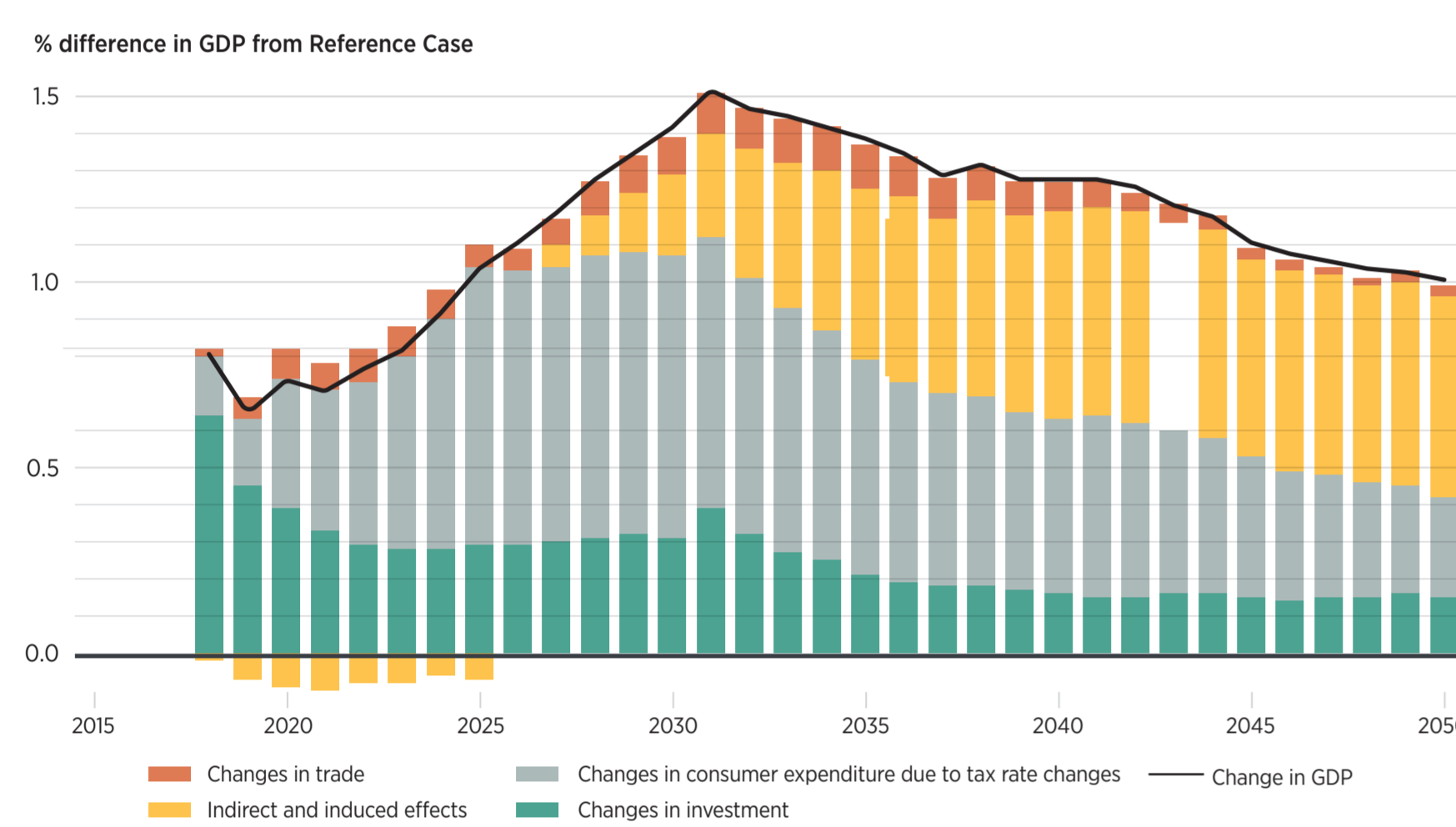
The energy transition cannot be considered in isolation from the socio-economic system in which it is deployed.

The close interplay between the energy sector and the socio-economic system alters the socio-economic footprint and generates a number of benefits in terms of GDP, employment and human welfare.



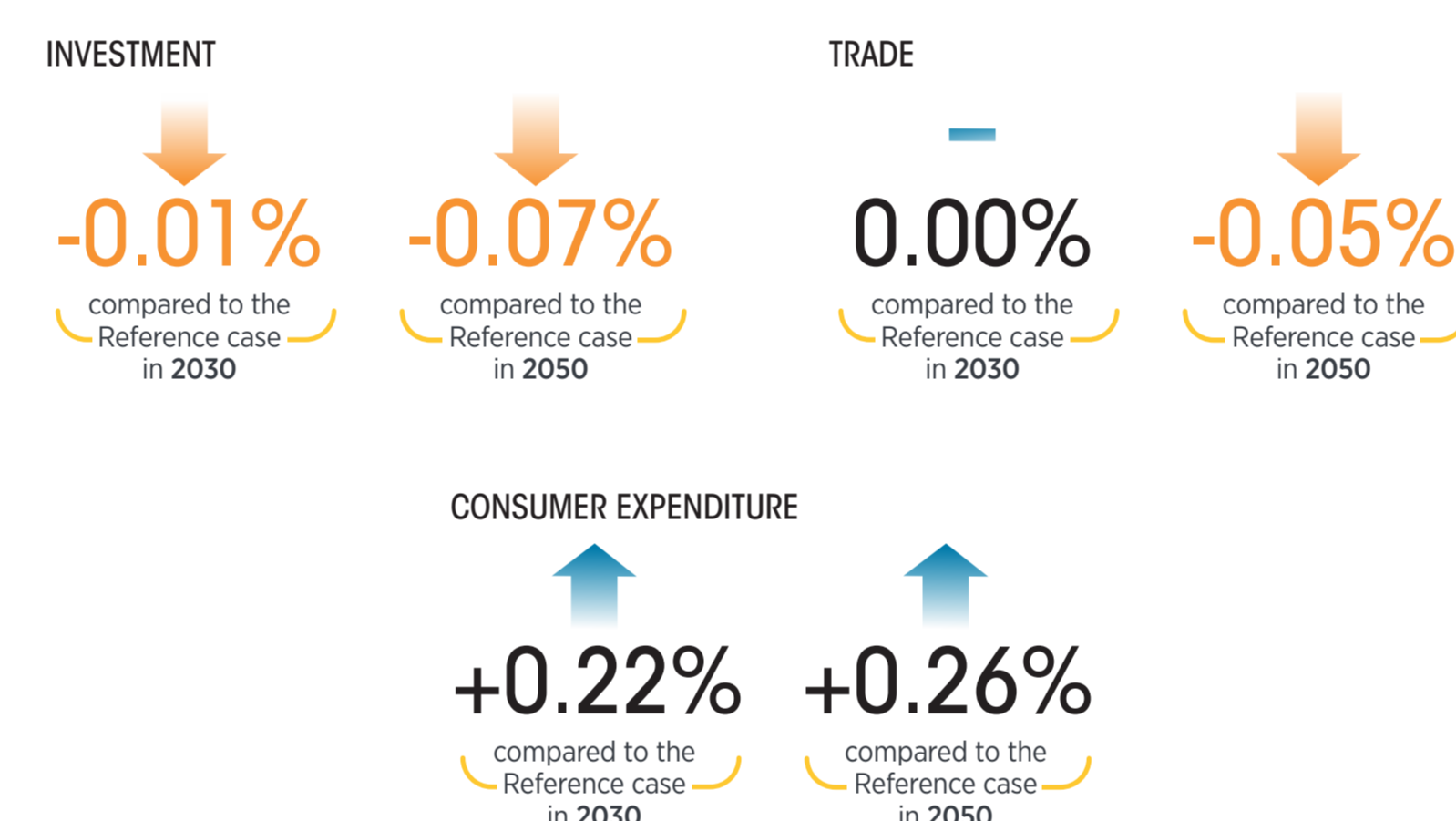
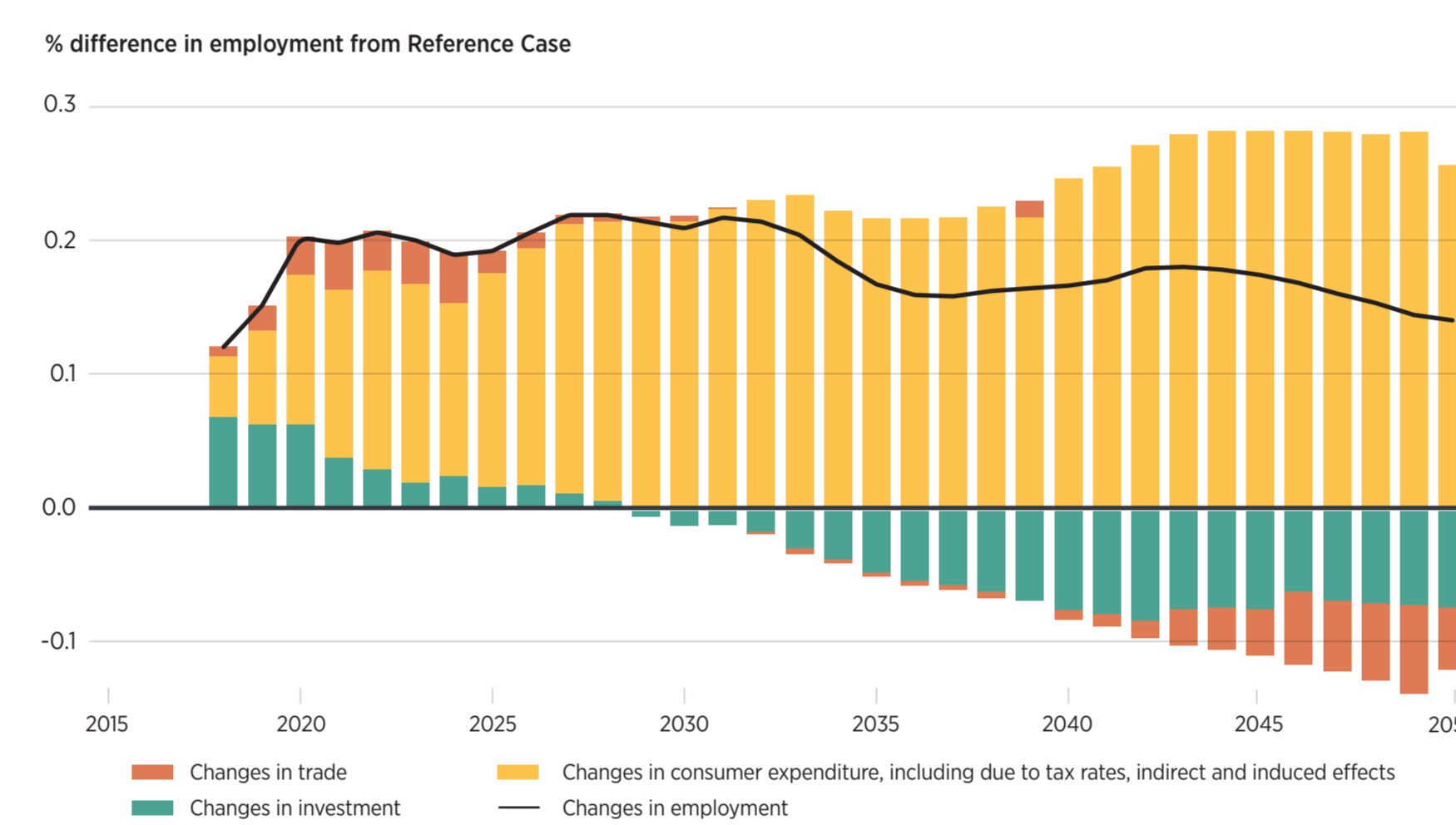
1 The energy transition results in GDP growth higher than the Reference Case between 2018 and 2050.

Relative difference of global GDP between the REmap Case and the Reference Case.



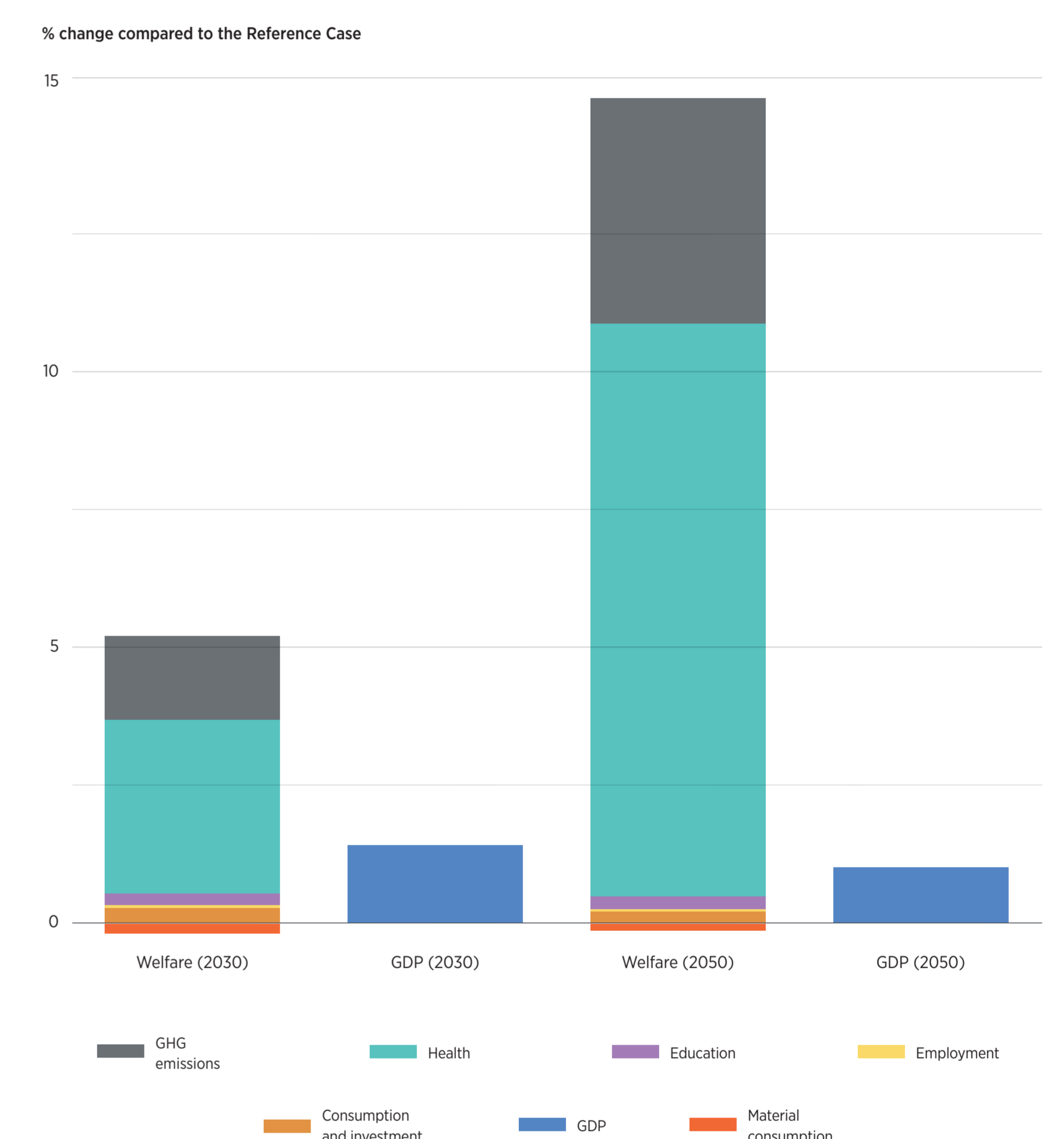
2 The energy transition results in employment growth higher than the Reference Case between 2018 and 2050.

Relative difference in global employment - REmap Case and Reference Case, disaggregated by three main drivers.



3 The energy transition generates significant increases in global welfare.

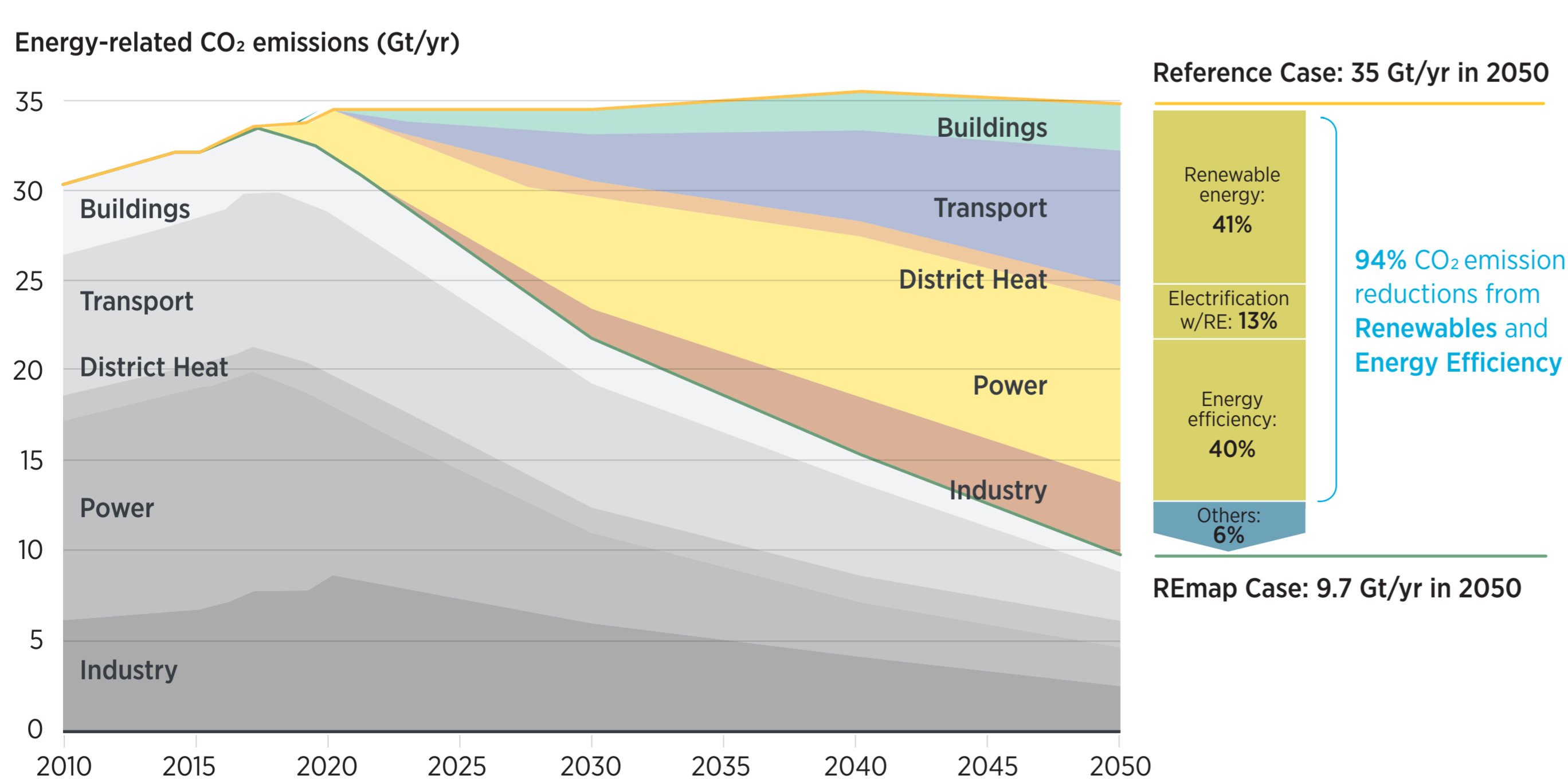
Global welfare indicators and GDP - the REmap Case compared to the Reference Case, 2030-2050.



REDUCTION OF ENERGY-RELATED CO₂ EMISSIONS TOWARDS 2050

IRENA estimates that annual energy emissions must be reduced by over 70% to bring temperature rise to below the 2°C goal. Renewable energy and energy efficiency measures provide over 90% of the reduction required.

Annual energy-related CO₂ emissions and reductions, 2015-2050.



CONTRIBUTION TO SUSTAINABLE DEVELOPMENT GOALS (SDGs)

Articulating the link between SDG 7 and the other SDGs is essential to maximise development co-benefits.

