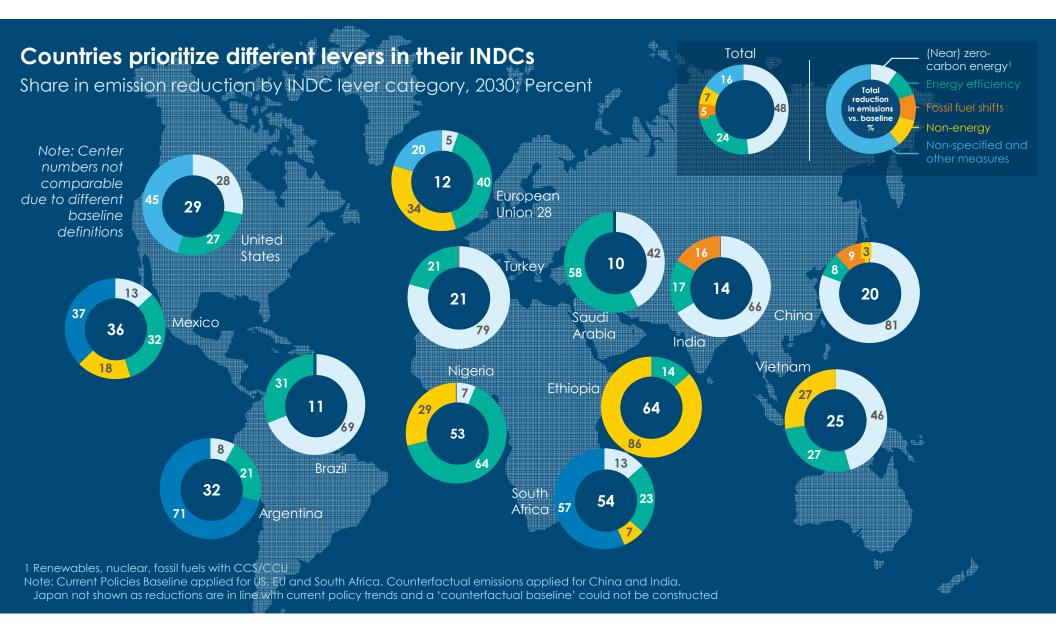


# **Energy Transitions Commission**

Assessment of impact of INDCs – Cross-country analysis

April 2016

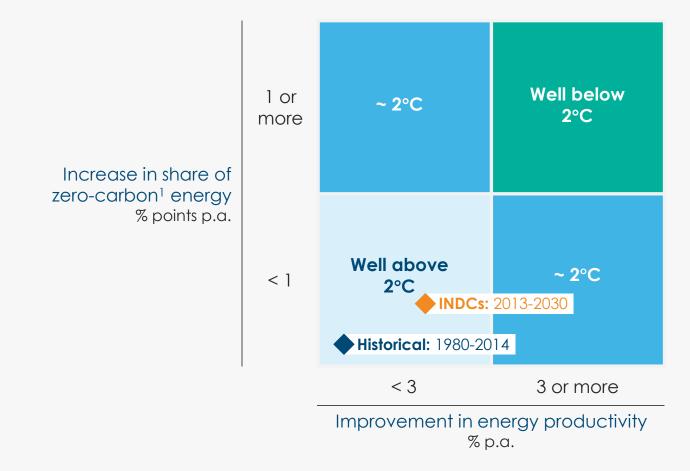




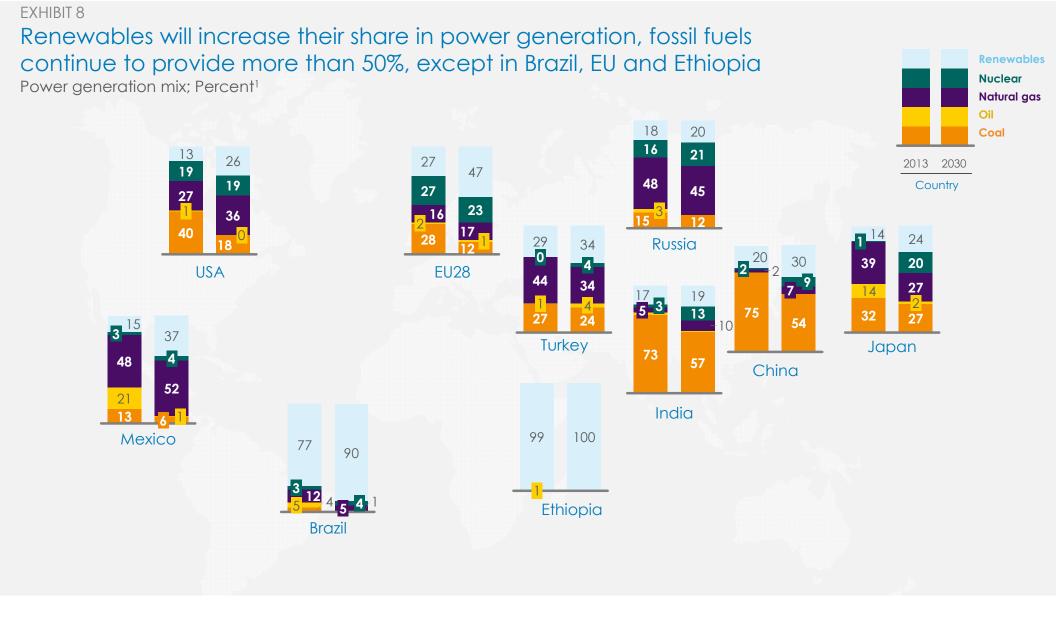
#### EXHIBIT 3

Energy productivity and the share of zero-carbon energy will drive overall system change

Global primary energy demand, 2012-2050



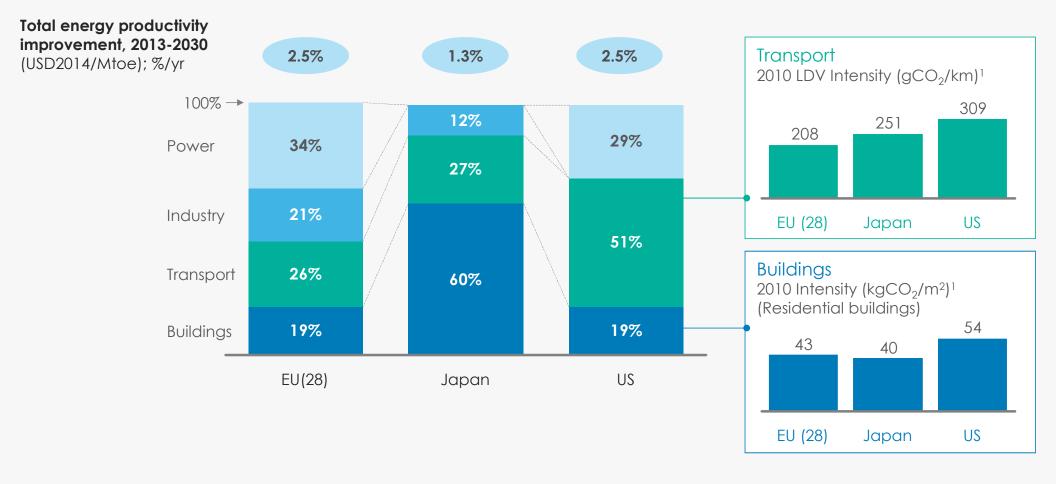
1 We include here renewables, nuclear, biomass and fossil fuels if and when their use can be decarbonized through carbon capture and use or storage (CCS/CCU). However, if a large share of the increase is from the latter, a higher share is required since this does not reduce emissions to zero completely SOURCE: Enerdata (2015), Historic actuals



#### EXHIBIT 9

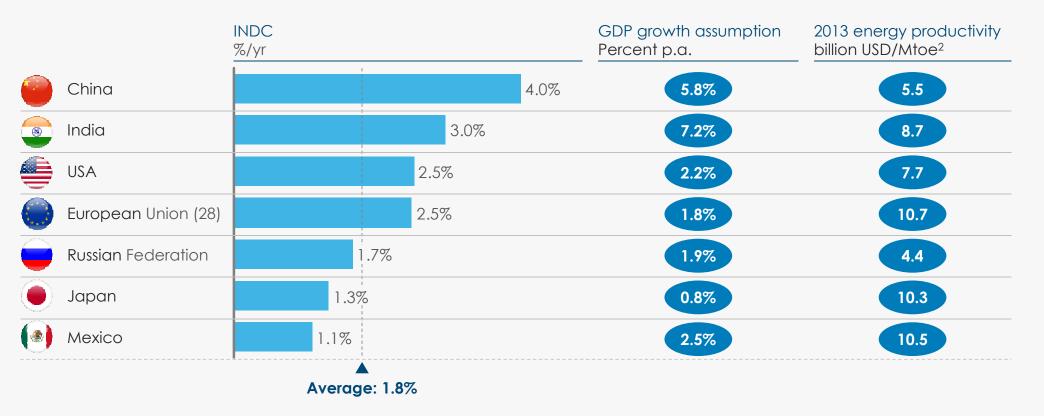
## Industrialized countries set different priorities for improving their energy intensity

Contribution to total energy efficiency per sector; Percent



### EXHIBIT 10 Energy productivity grows by 1.8% on average, particularly driven by improvements in the top-4 emitters (China, India, US and EU)

Annual improvement in energy productivity by country; Percent<sup>1</sup>



1At market exchange rates. In PPP terms, the contribution of China is larger and average energy productivity improvements could be higher 2 World Bank (2016), GDP per unit of energy use (PPP \$ per kg of oil equivalent)

