DNV·GL



The big picture of the energy transformation Status and prospects

5th International Symposium on Sustainability | How to Engage Society and Deploy Decarbonization Venice 7th February 2019

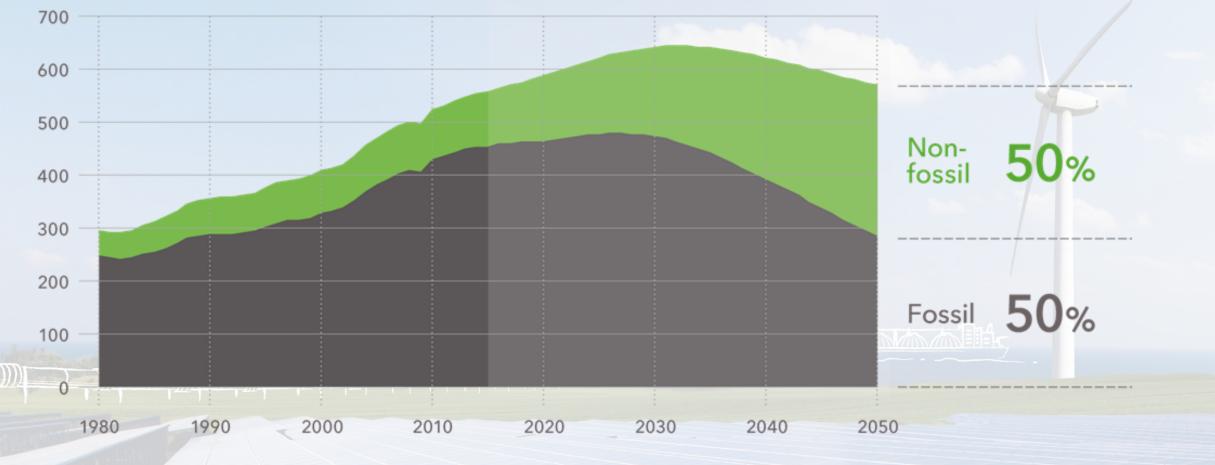
Bjørn K. Haugland EVP & Chief Sustainability Officer DNV GL Group

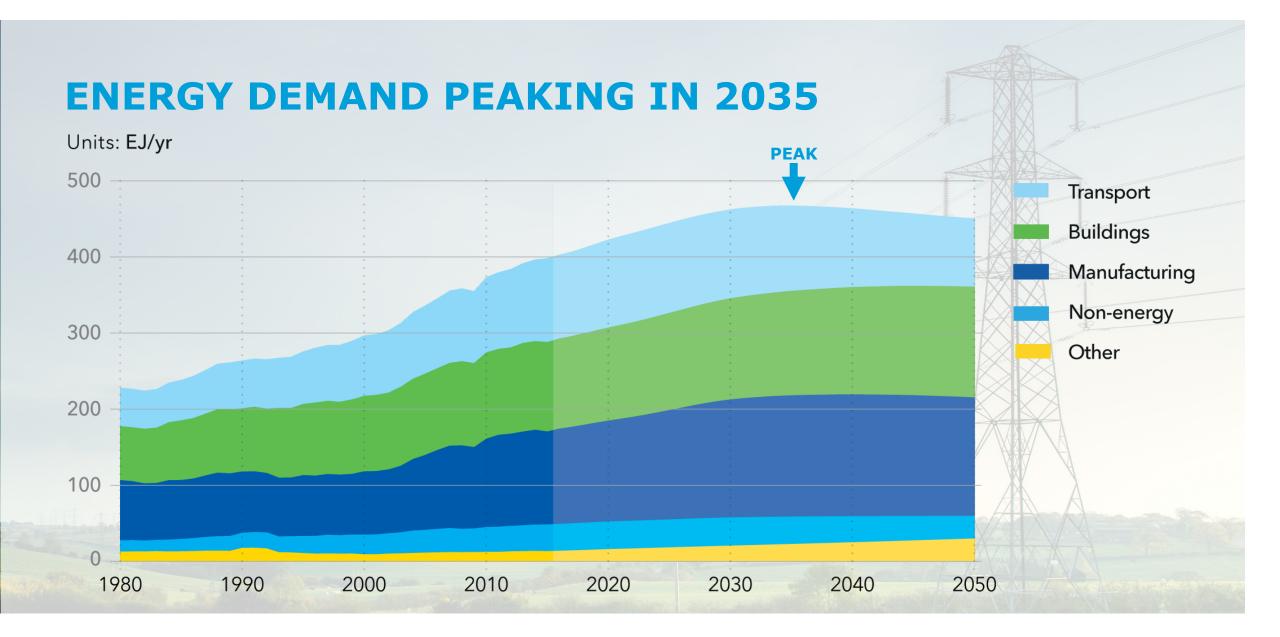


Over the next decades, the world's energy system will become substantially cleaner, more affordable and more reliable

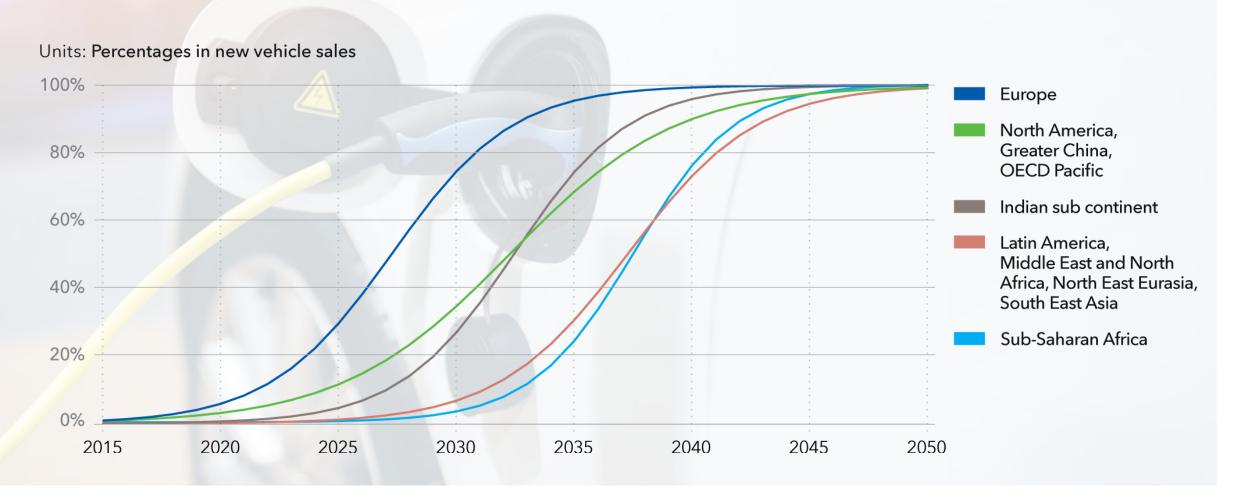
AN EQUAL SPLIT BY 2050

Units: EJ/ Yr

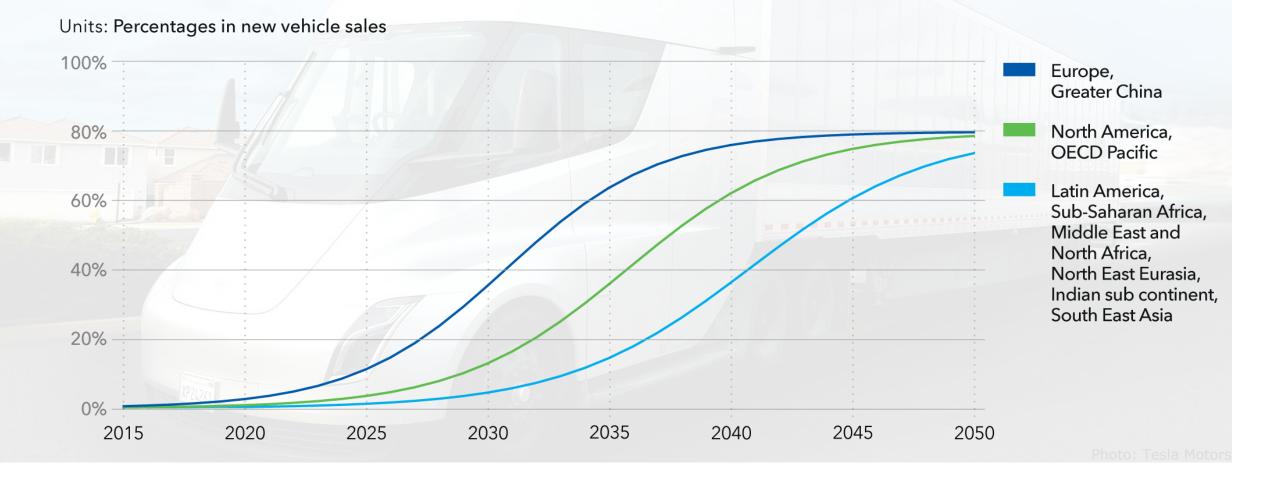




NON-COMBUSTION LIGHT VEHICLES



NON-COMBUSTION HEAVY VEHICLES



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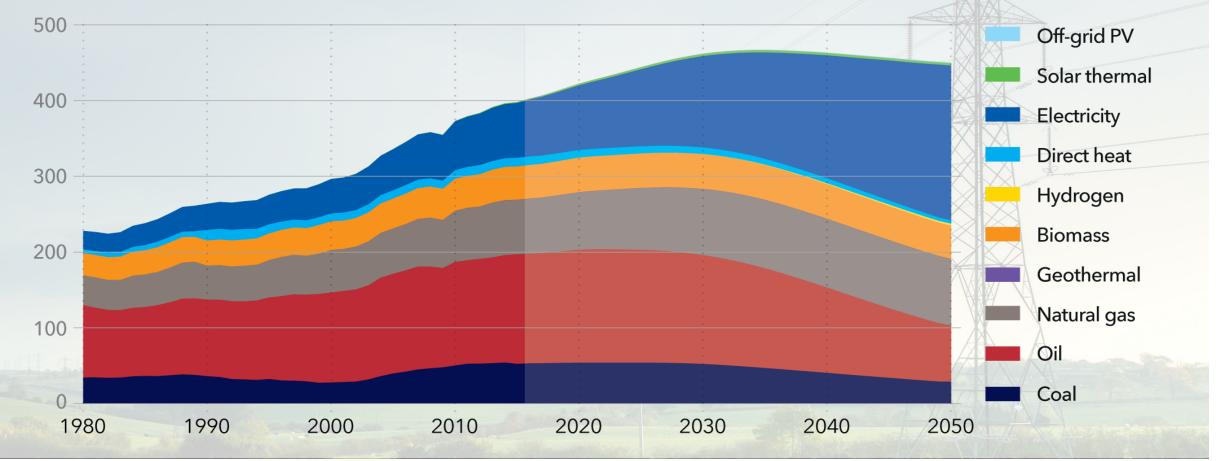
》第一巴士

E502

Photo: Wikipedia/Nissangeni

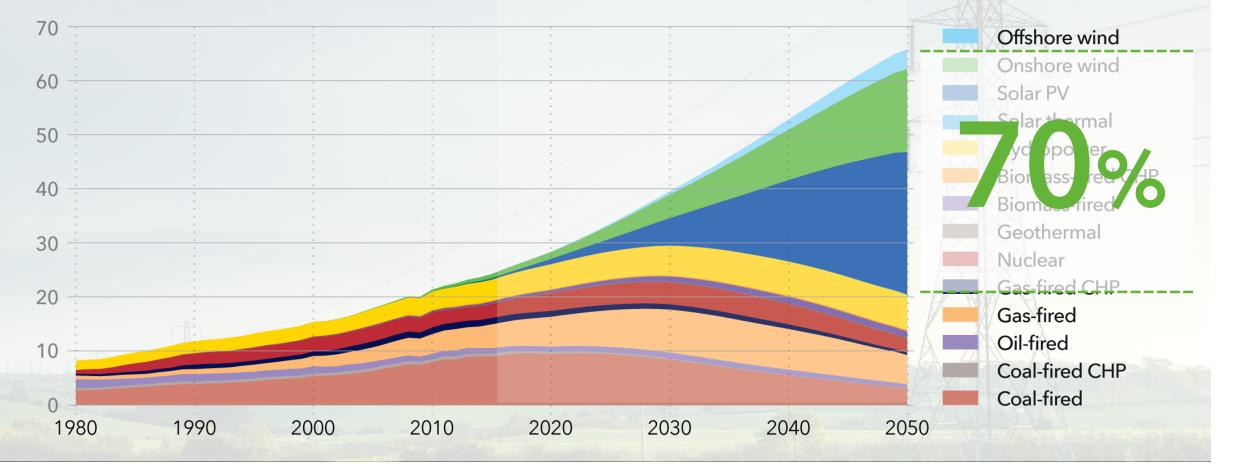
ELECTRICITY WILL DOUBLE

Units: EJ/yr



SOLAR PV AND WIND SUPPLY TAKING OVER

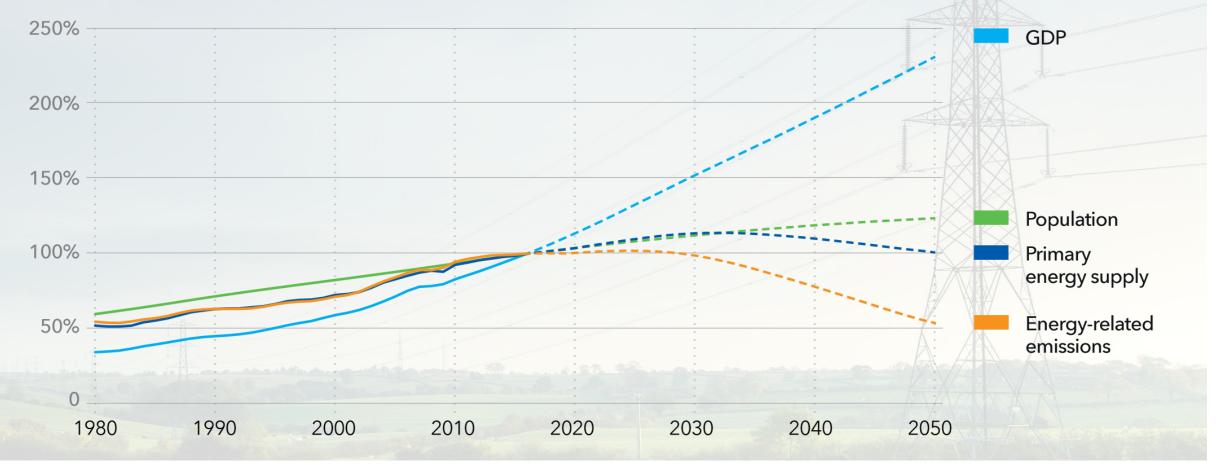
Units: PWh/yr



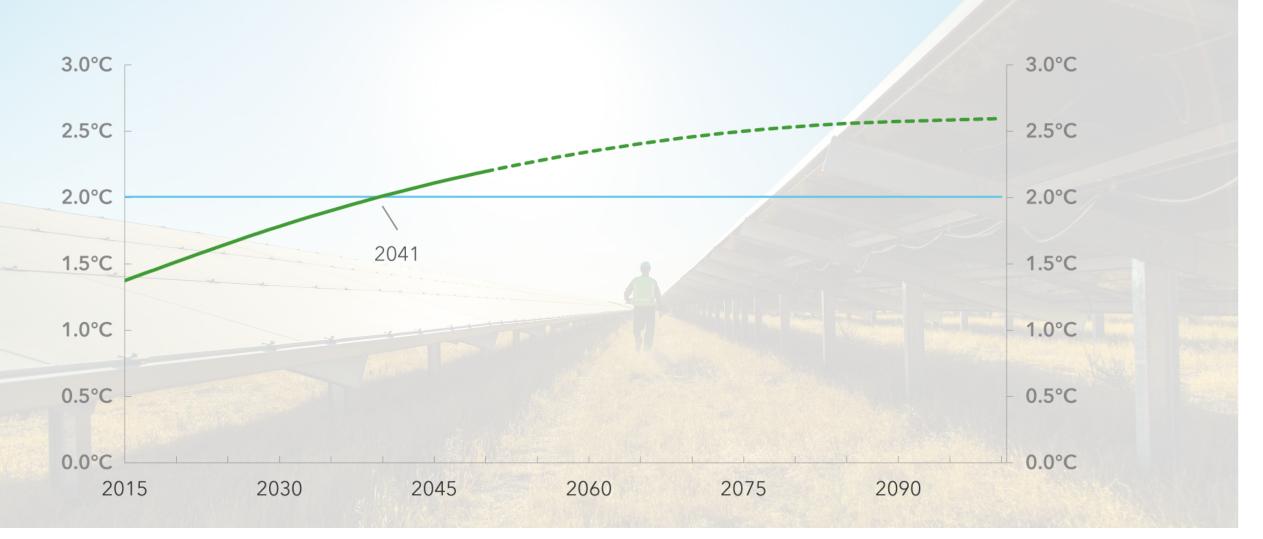
ESGEP

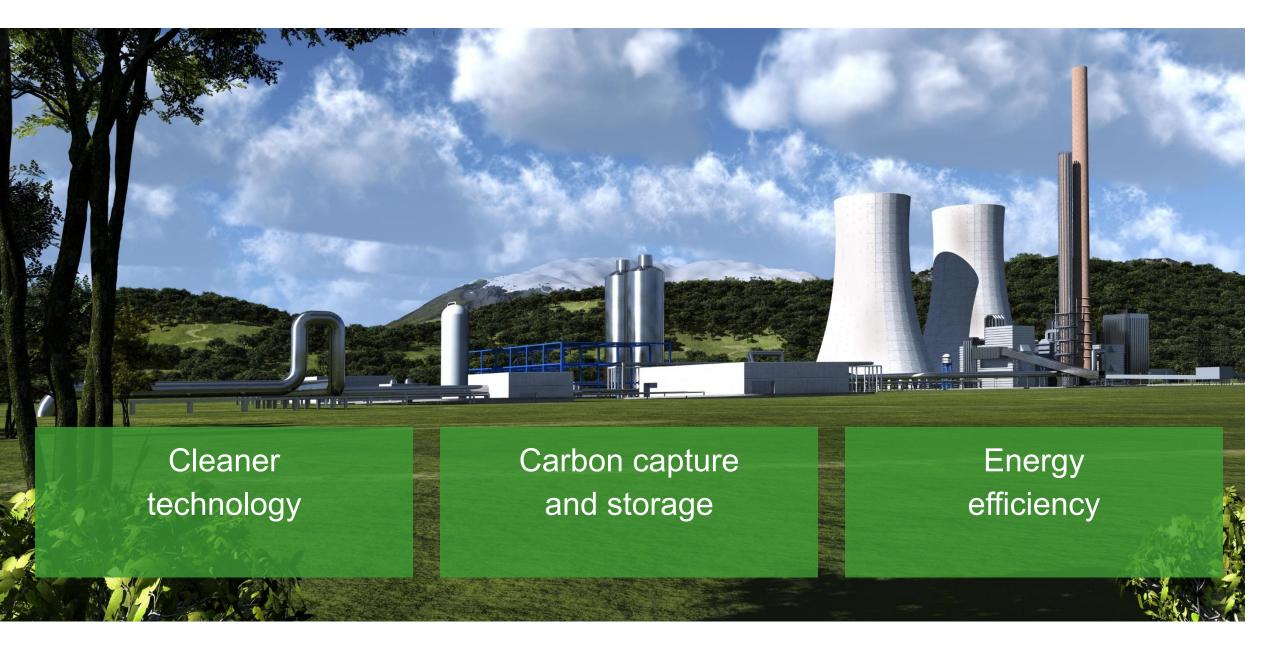
DECOUPLING OF ECONOMY AND ENERGY USE

Units: Percentages of 2016 levels



Global warming and carbon budget



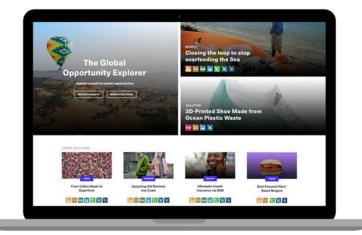


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7 RENEWABLE ENERGY	8 GOOD JOBS AND ECONOMIC GROWTH	9 INNOVATION AND INFRASTRUCTURE	10 REDUCED INEQUALITIES	11 SUSTAINABLE CITIES	12 RESPONSIBLE CONSUMPTION
13 CLIMATE	14 UFE BELOW WATER	15 UFF ON LAND	16 PEACE AND JUSTICE	17 PARTNERSHIPS FOR THE GOALS	THE GLOBAL GOALS For Sustainable Development





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Thank you!

Purpose	To safeguard life, property and the environment			
Vision	Global impact for a safe and sustainable future			