



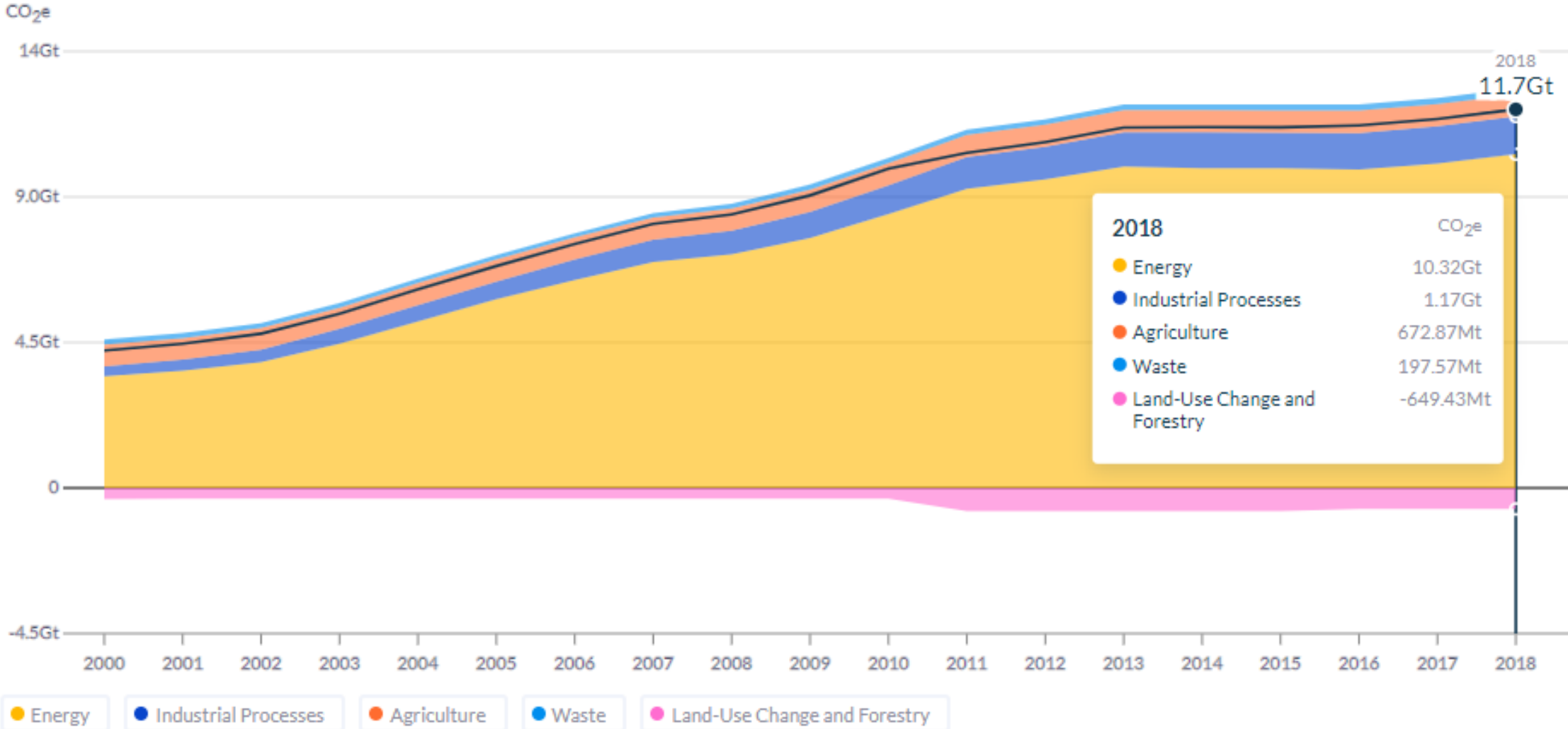
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# Decarbonizing China Road Transport

*Decarbonizing Transport in Future Webinar*

**Wee Kean Fong** | June 23, 2021

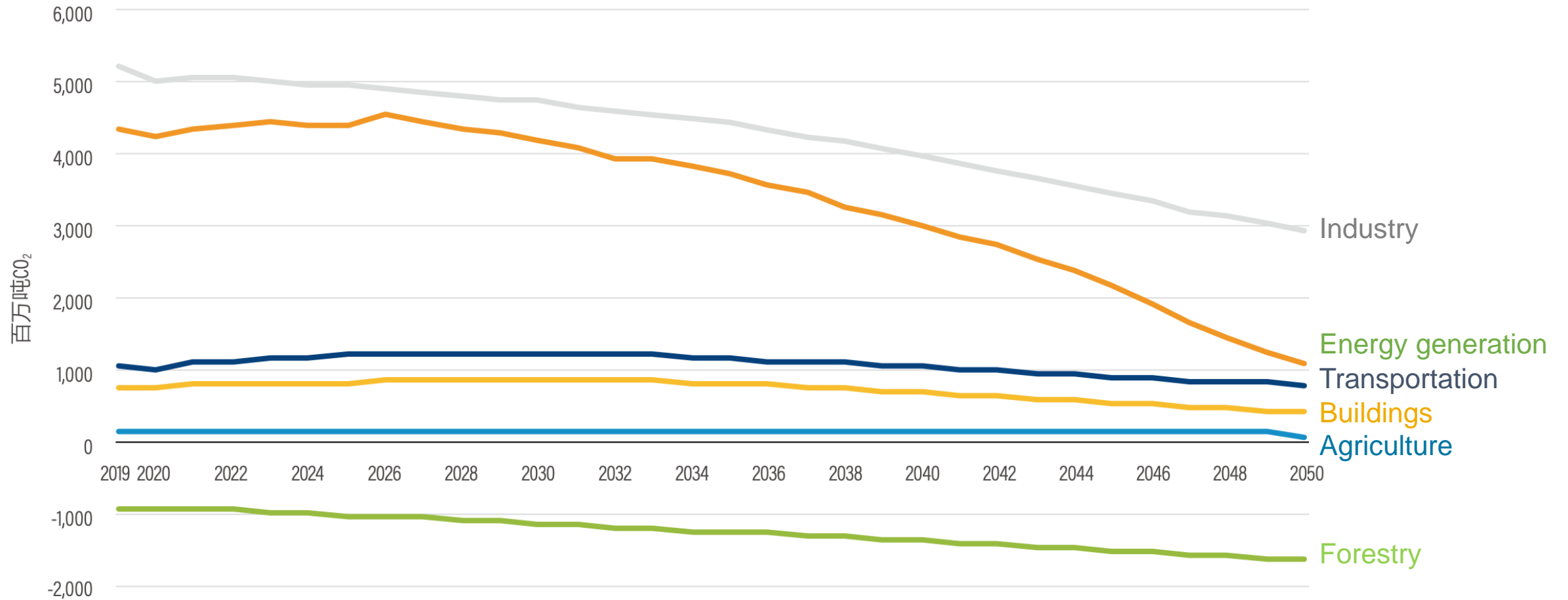
# China – GHG Emissions



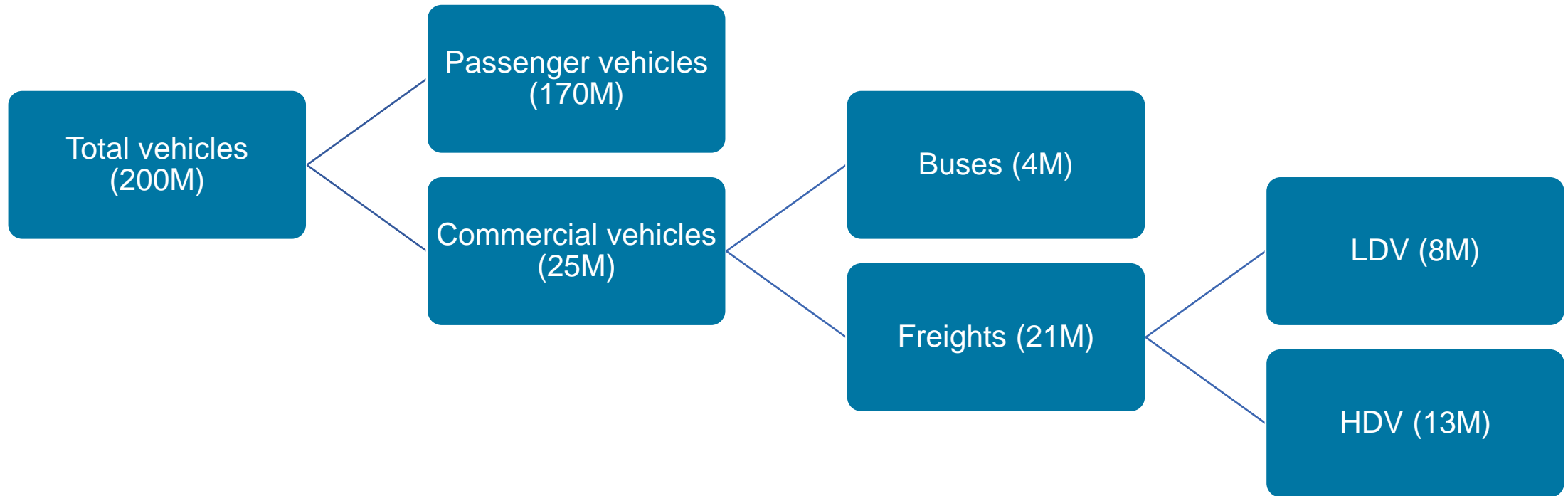
Source: WRI



# China – GHG Emissions By Sector



# Background - Composition of road transport (2017)

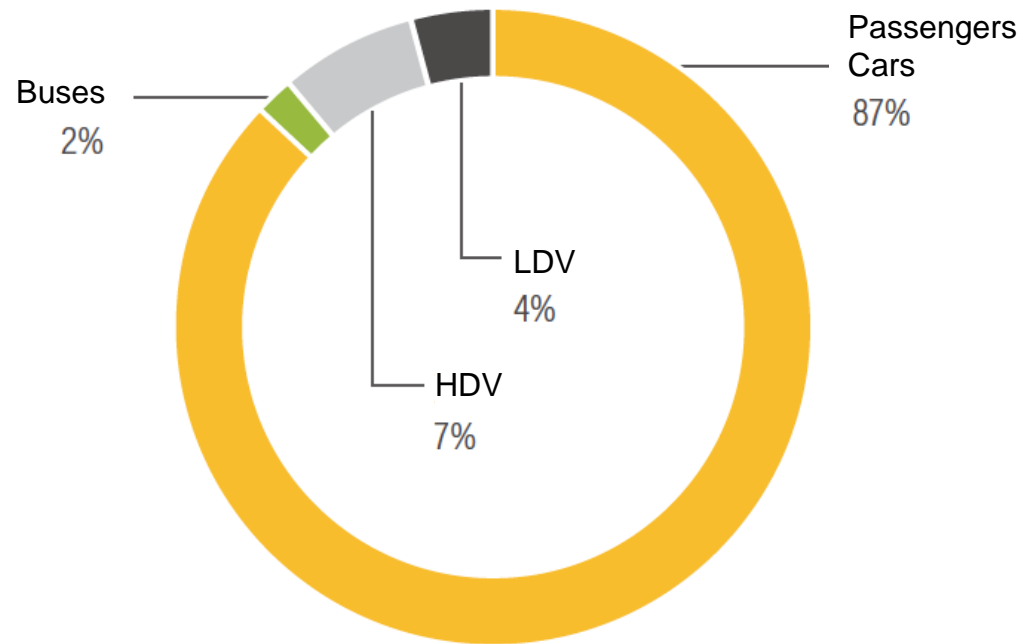


# Background - Fuel mix (2017)

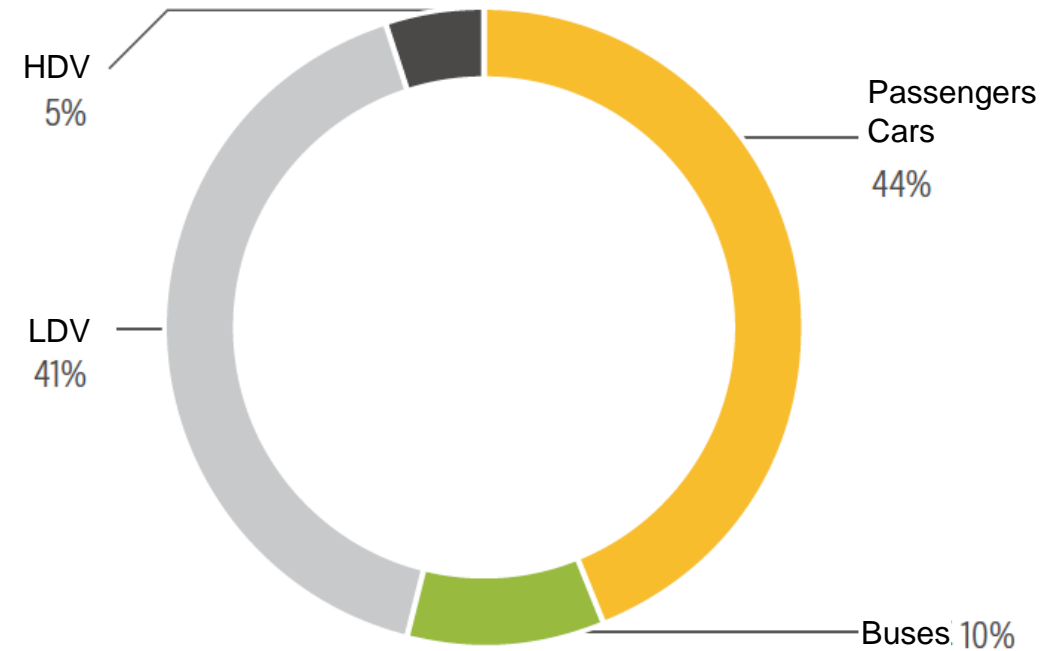
	Petrol	Diesel	LNG	New Energy	Others
Passengers Cars	98.6%	0.4%	0.4%	0.5%	0.1%
Commercial Vehicles	24.3%	70.4%	2.0%	1.9%	1.5%
Buses	28.8%	52.3%	6.6%	9.9%	2.3%
LDV	58.5%	39.6%	0.7%	0.2%	1.0%
HDV	0.3%	96.2%	1.4%	0.6%	1.6%

# Background - Number of Vehicles vs Emissions (2017)

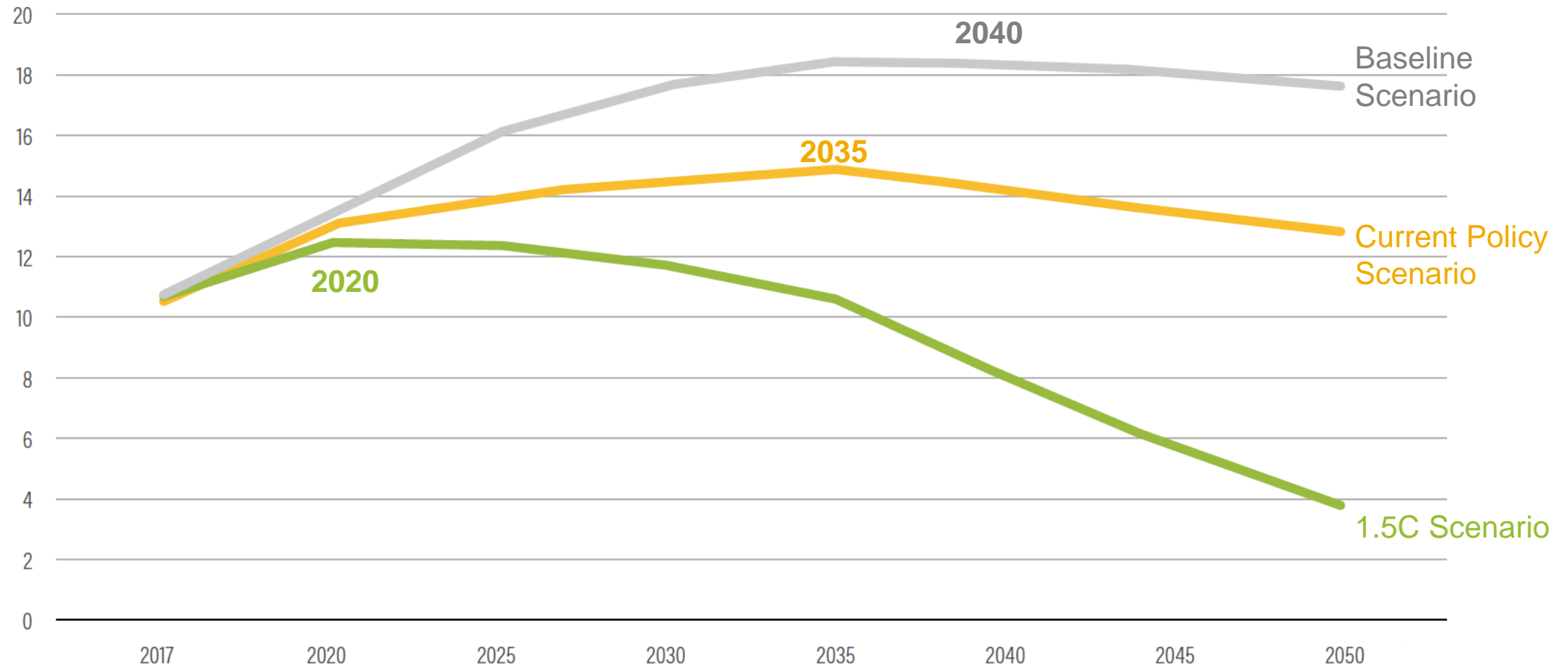
## Number of Vehicles



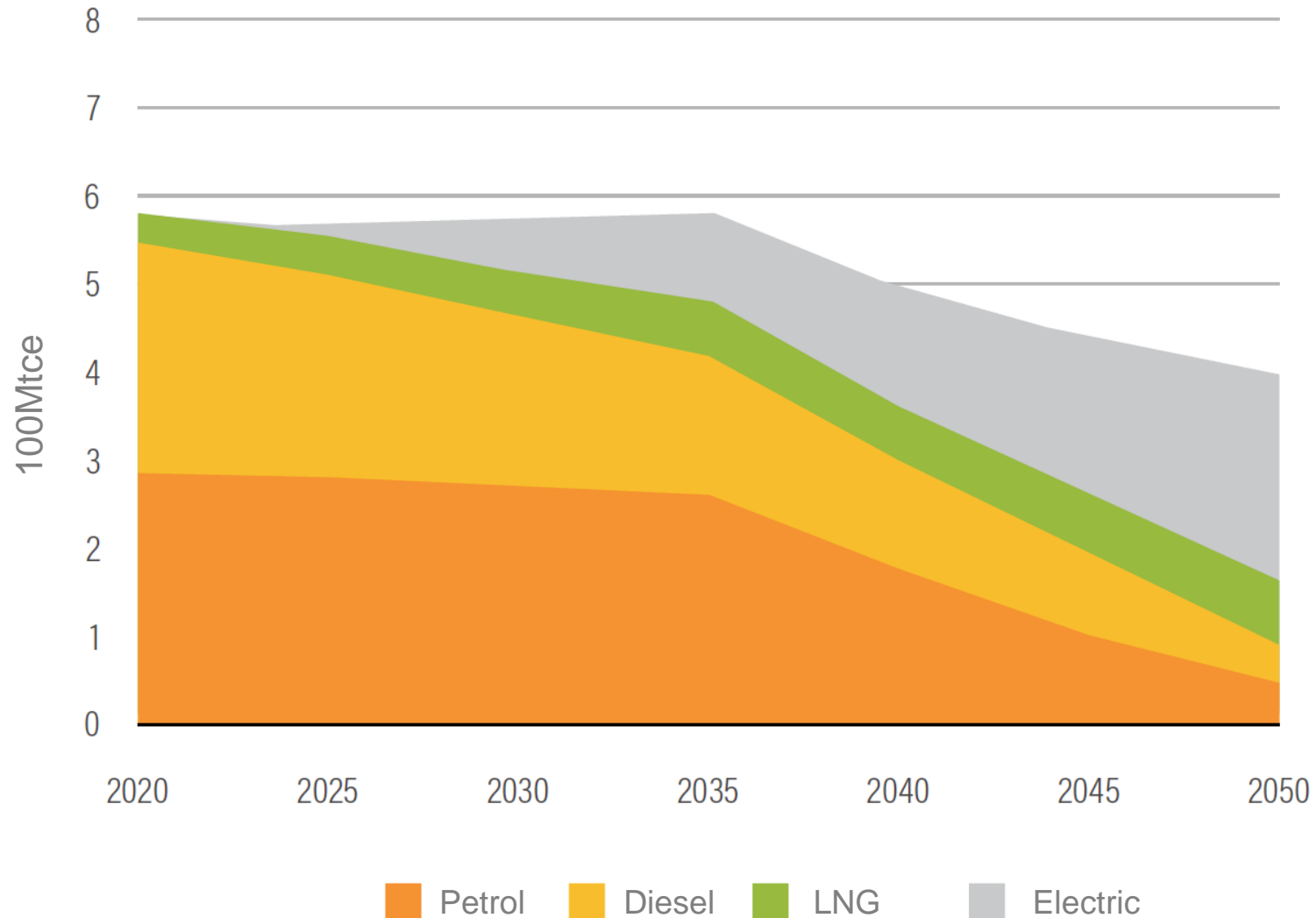
## GHG Emissions



# Result - 2050 emissions scenarios

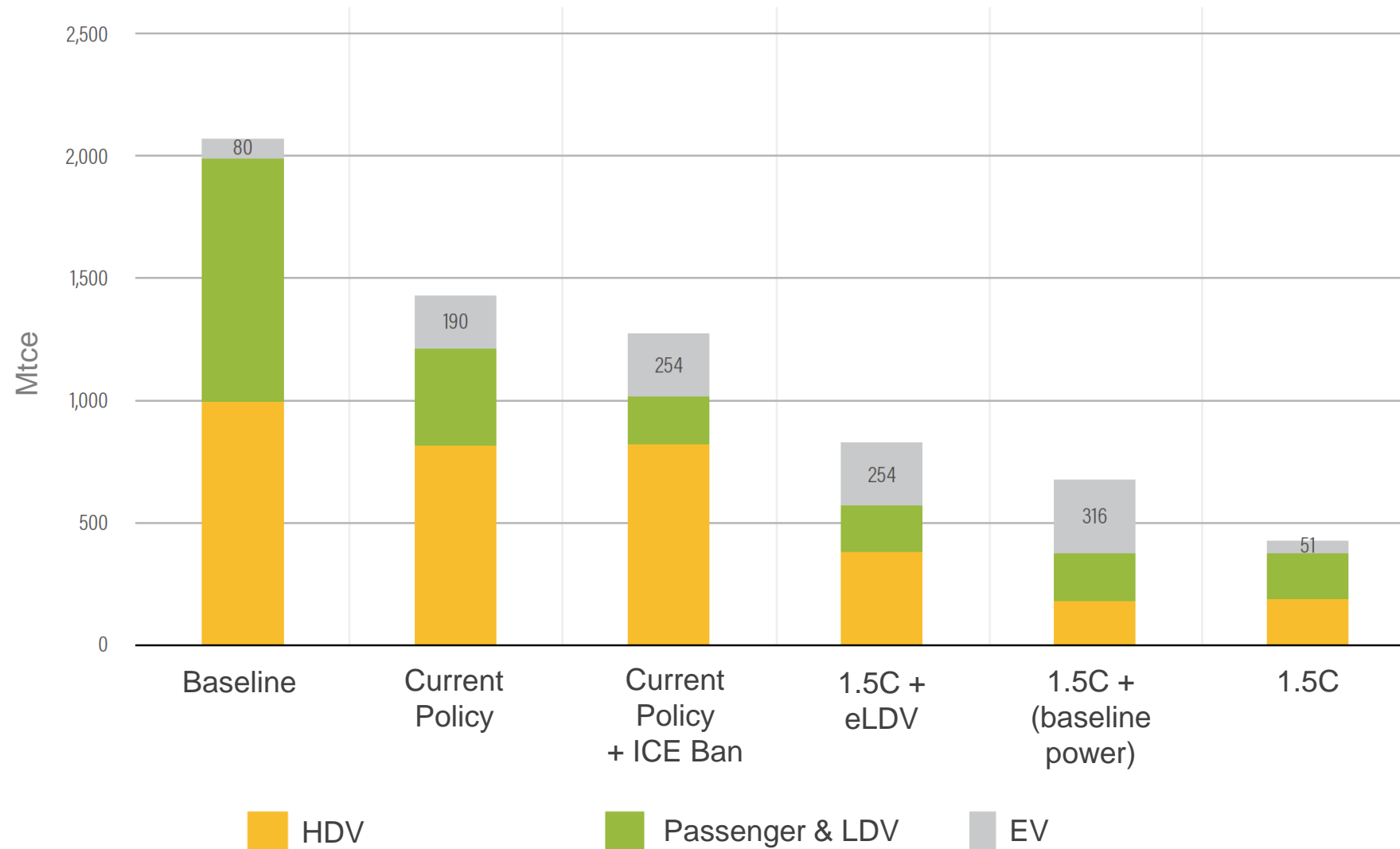


# Result - Energy consumption under the 1.5C Scenario

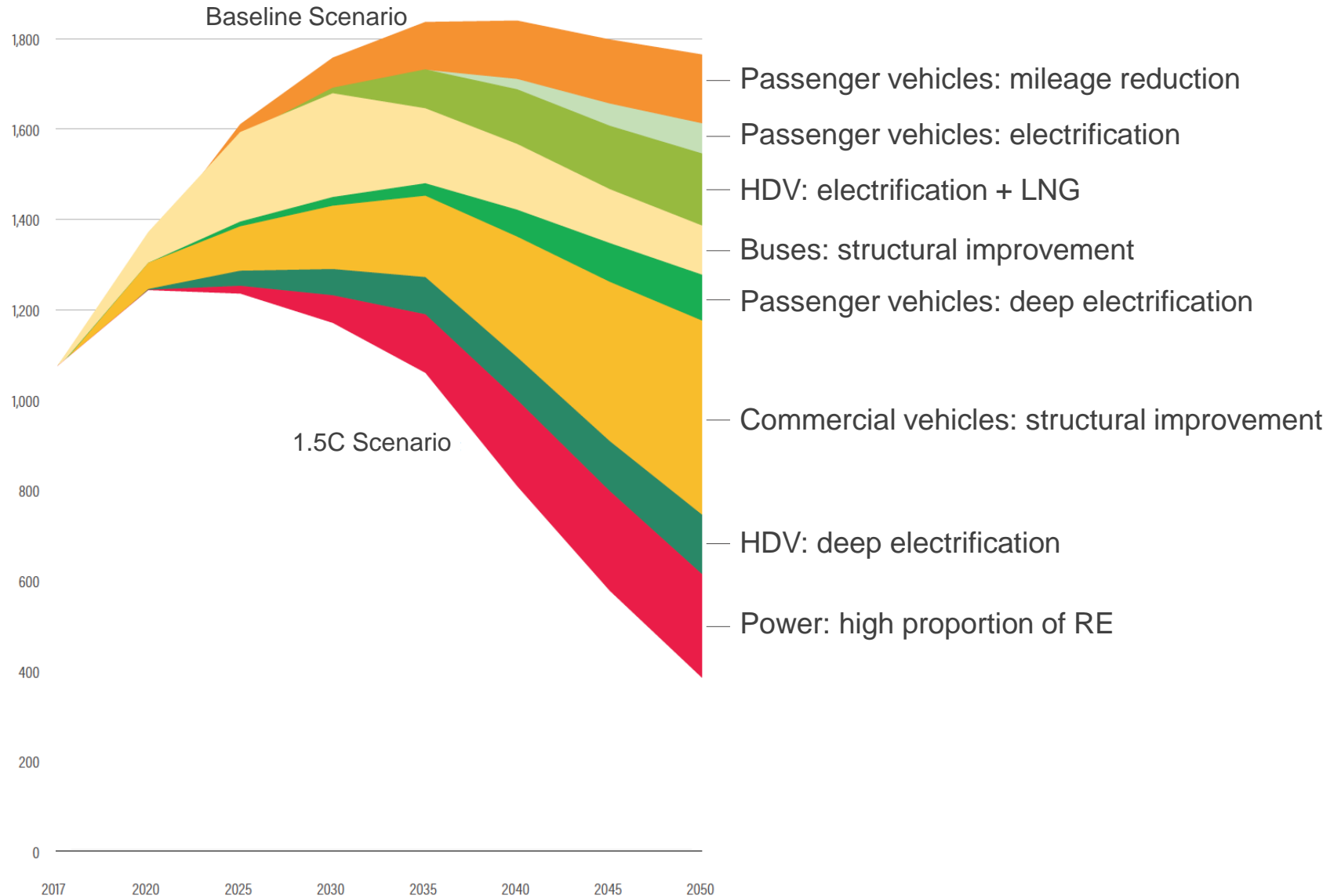




# Result - Additional Scenarios

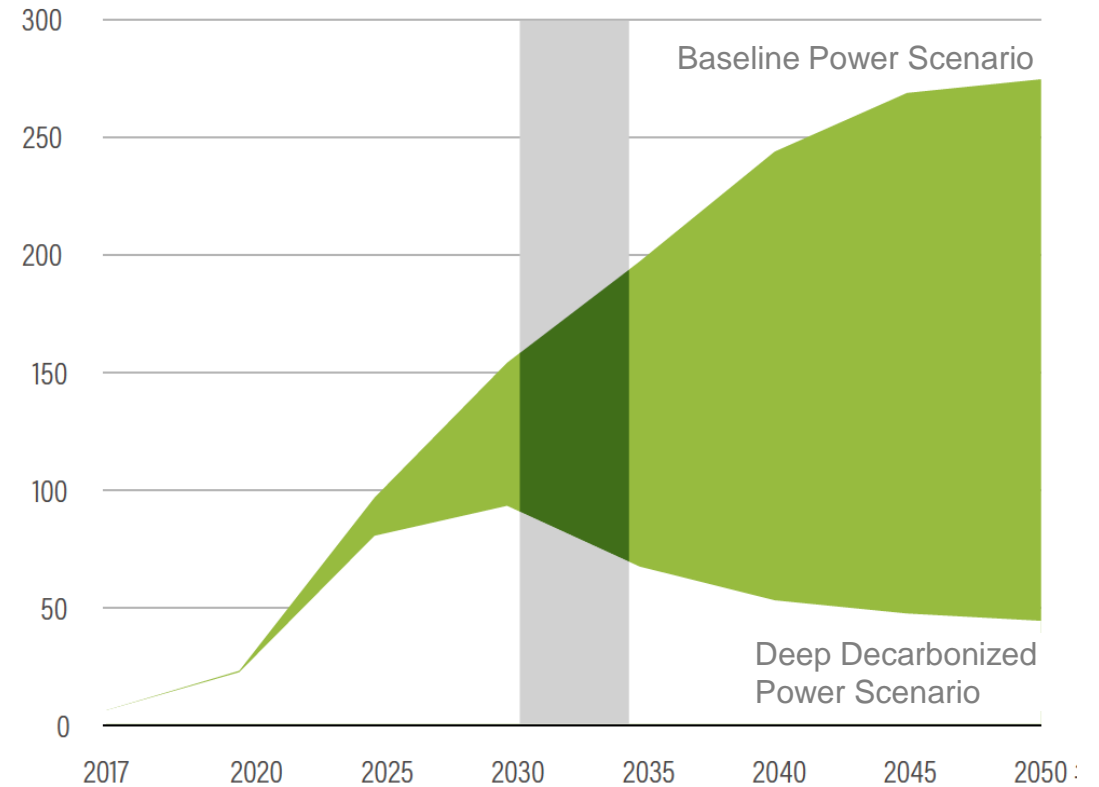


# Result - 1.5C Scenarios



# Result - Key findings

- Need deep electrification of both passenger vehicles and HDVs after peaking.
- Critical to decarbonize the power system.
- Need an integrate avoid-shift-improve approach.





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