



Future Powertrain

February 15, 2017
Toyota Motor Corporation
Hiroyuki Fukui

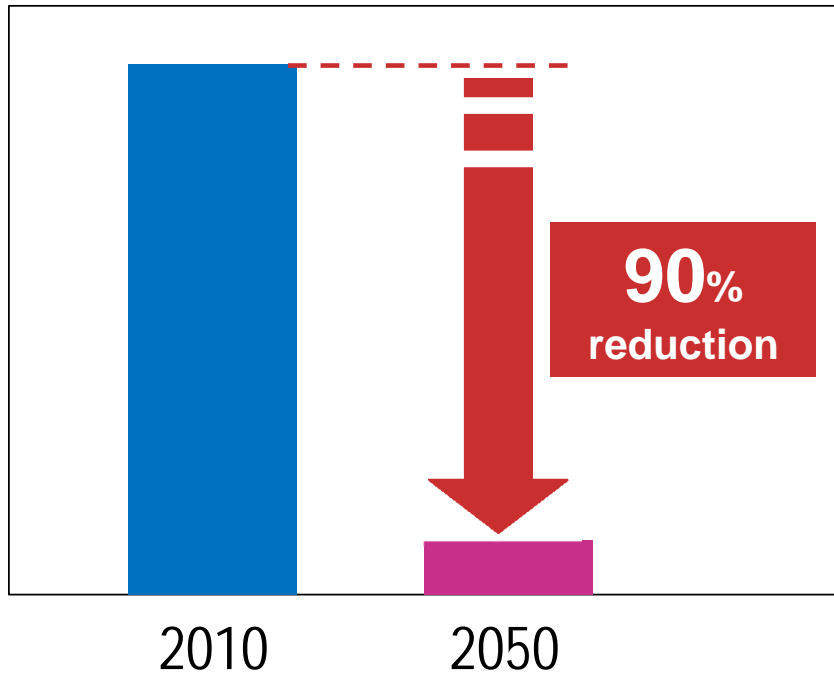
Toyota Environmental Challenge 2050



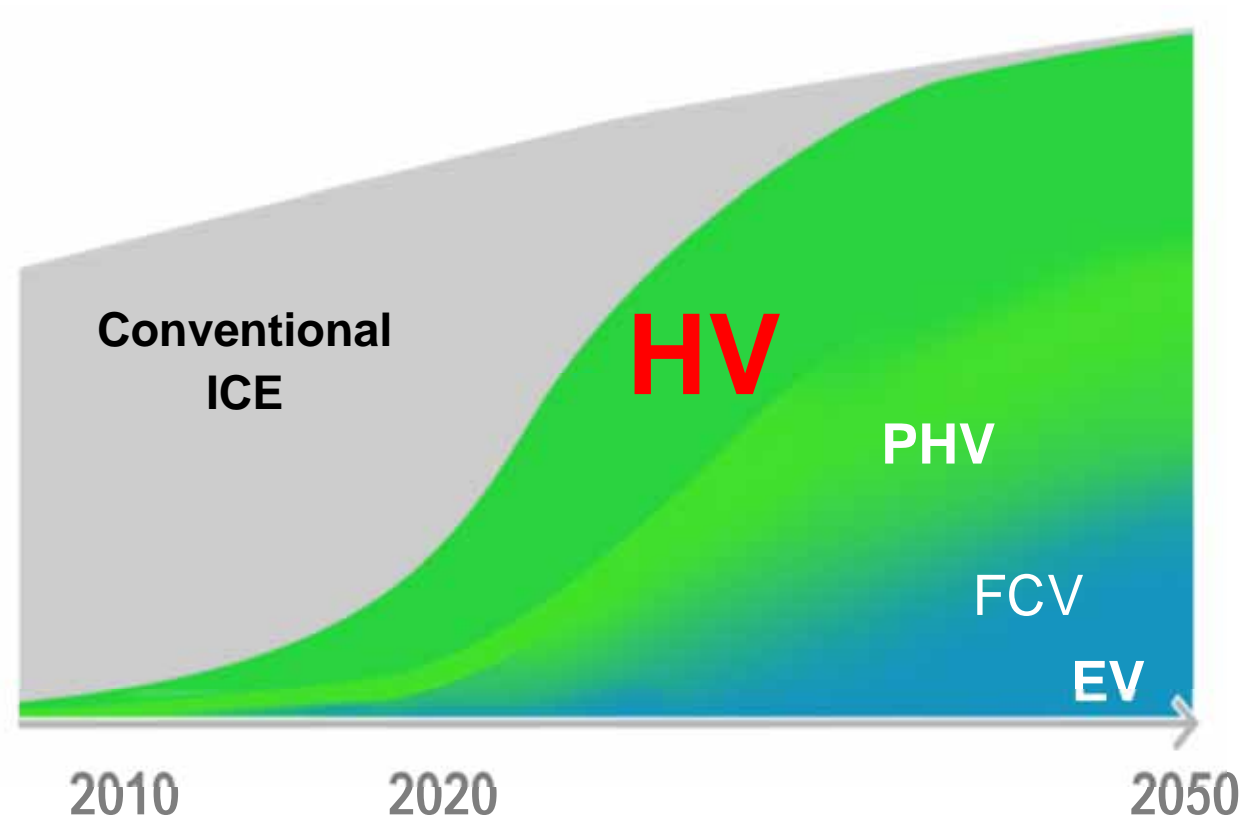


Challenge 1: New Vehicle Zero CO₂ Emission Challenge

New vehicle CO₂ (average)

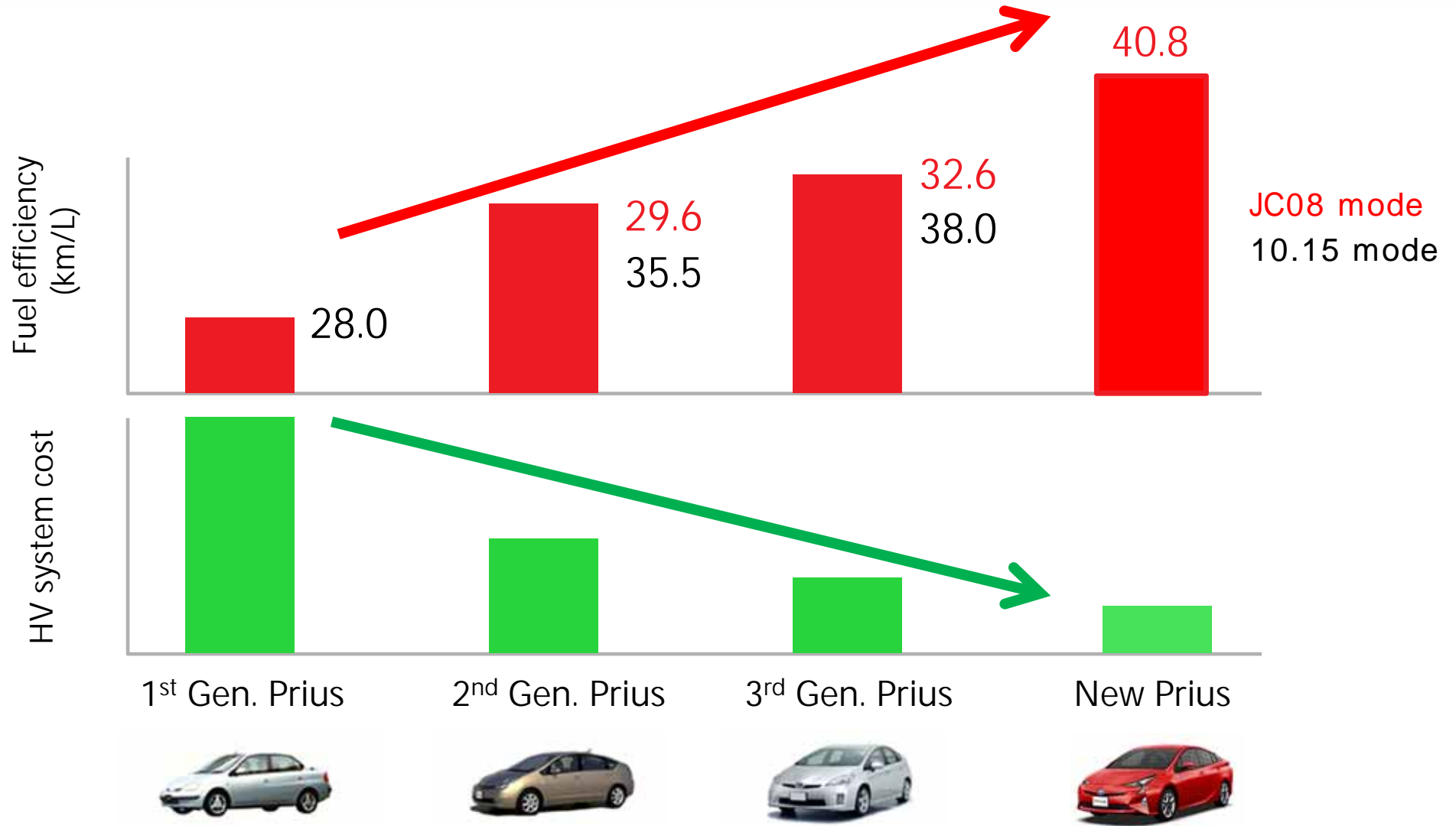


Powertrain mix



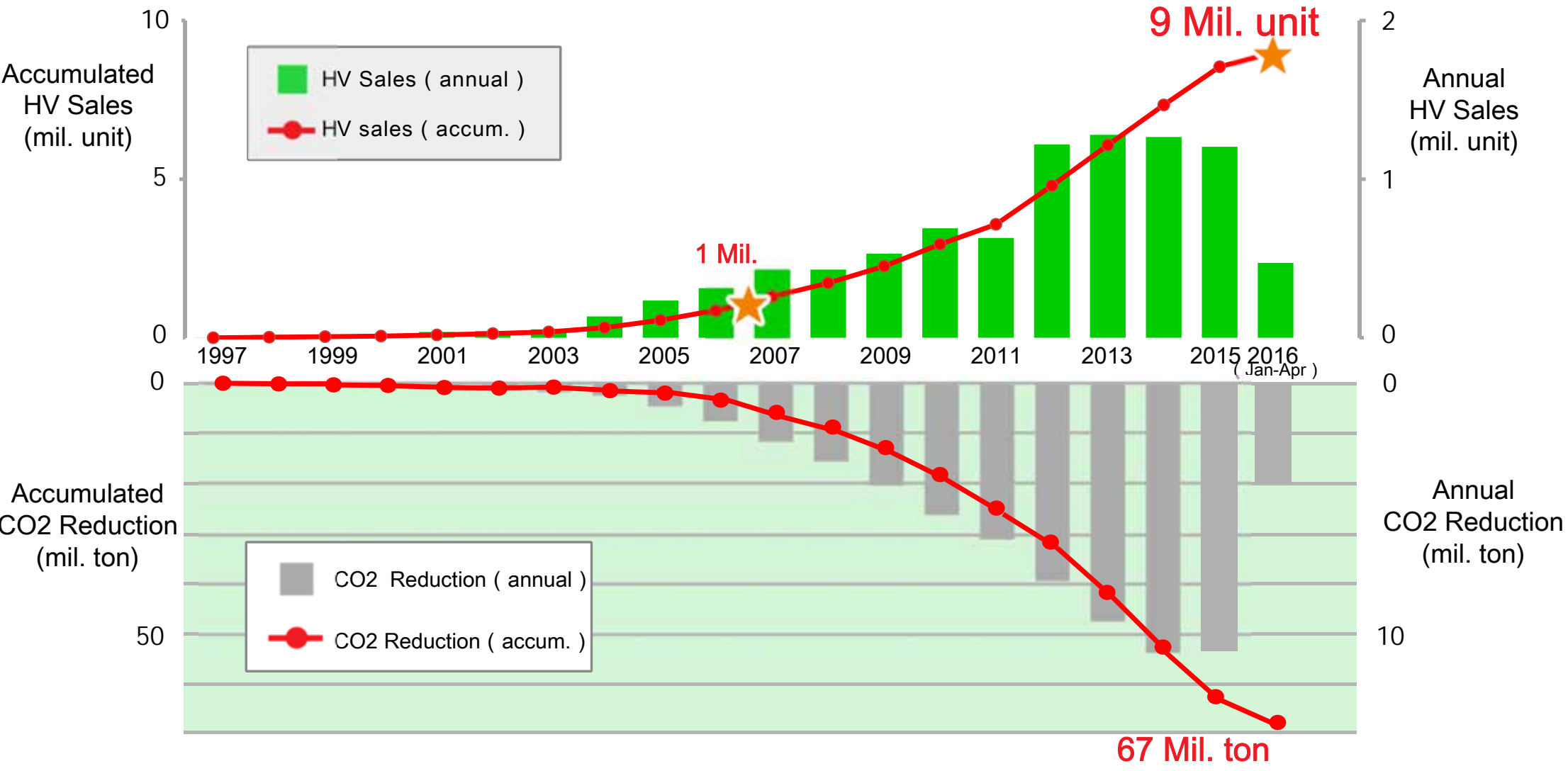


Toyota "PRIUS"





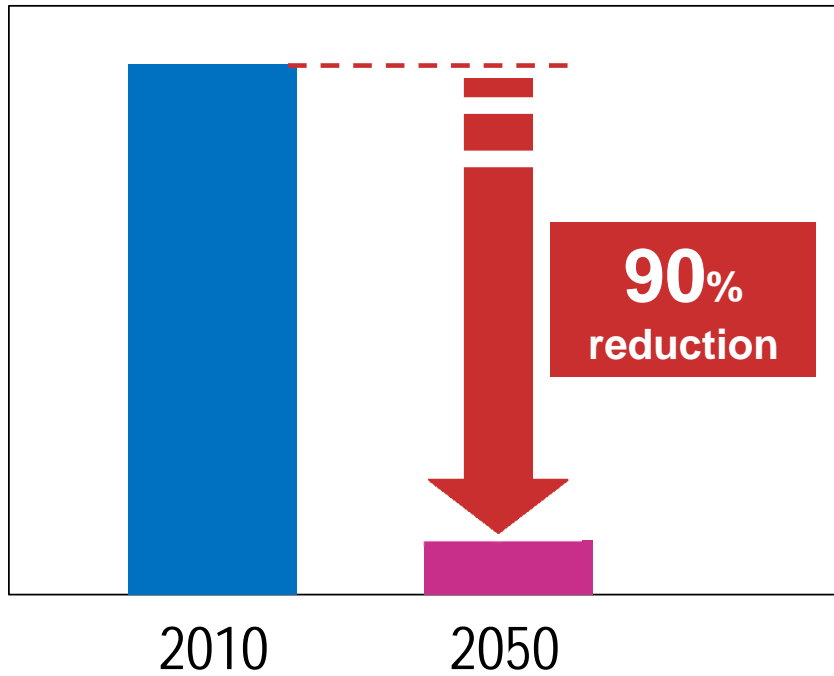
Toyota HV sales



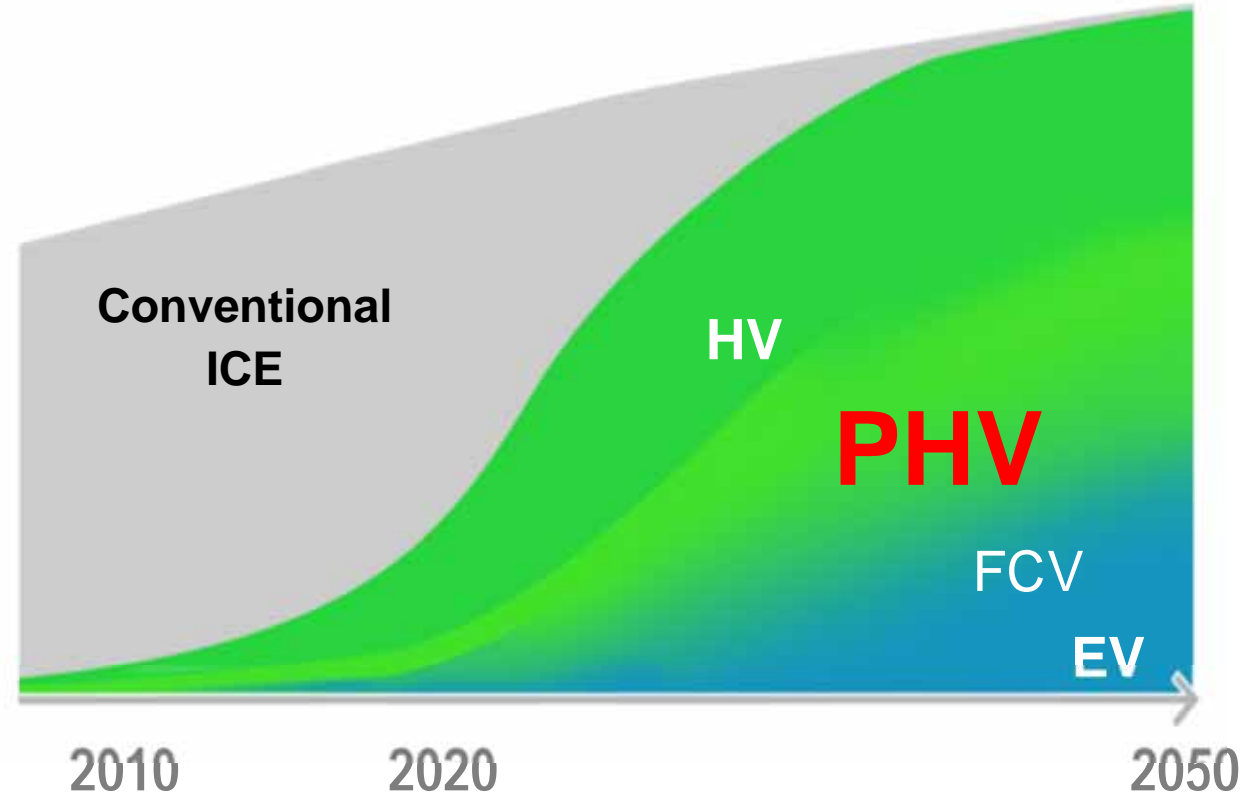


Challenge 1: New Vehicle Zero CO₂ Emission Challenge

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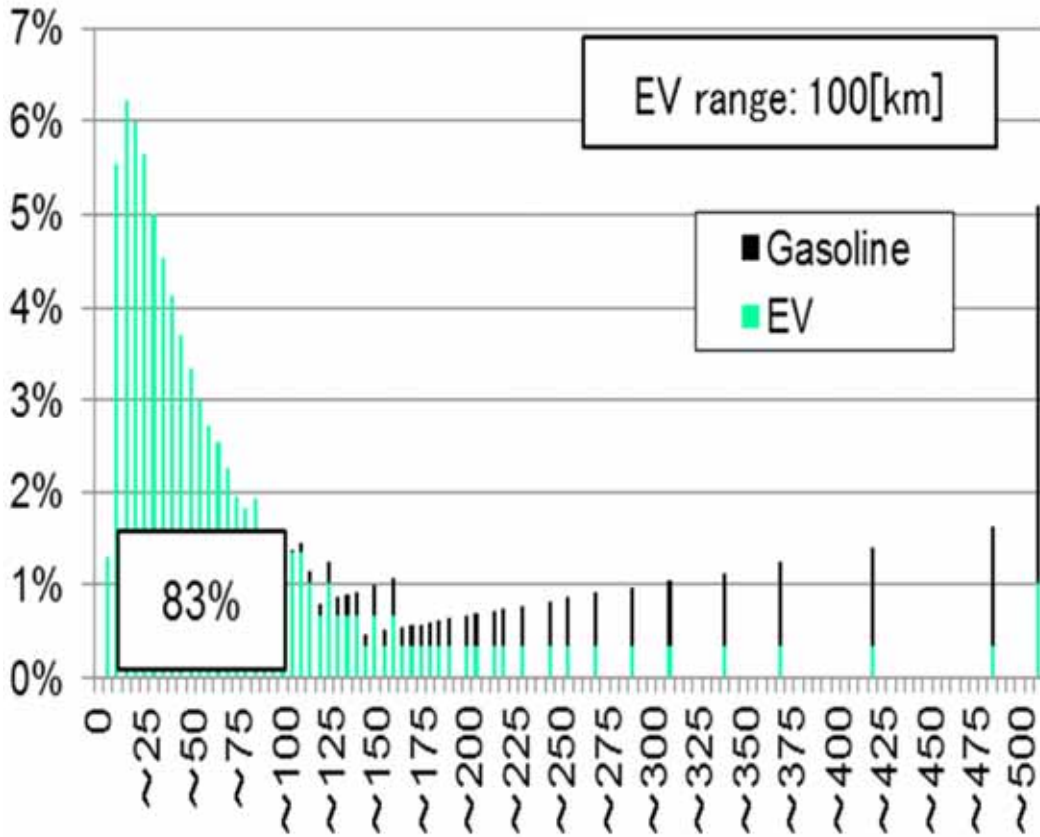
Powertrain mix



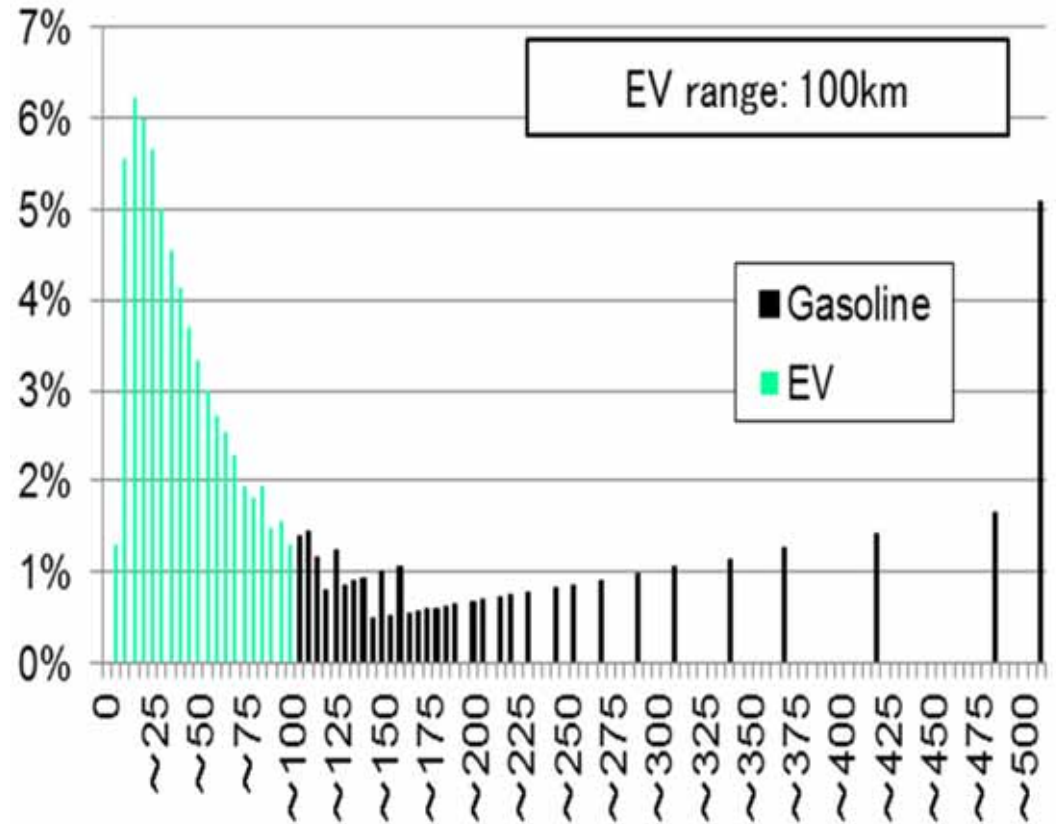


Driving trip and electric drive coverage

PHV



EV

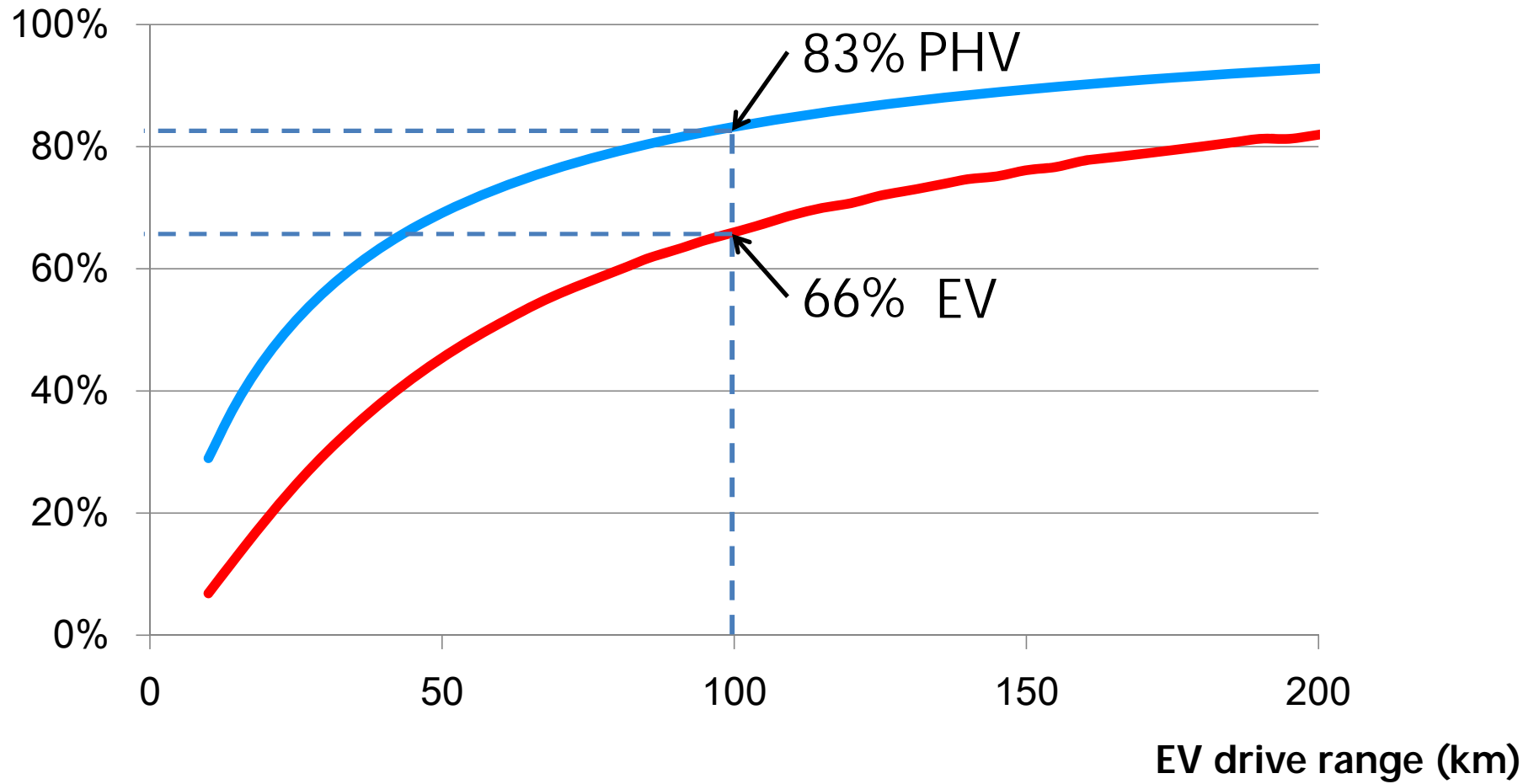


Japanese driving statistics



Electric drive cover ratio

EV cover ratio





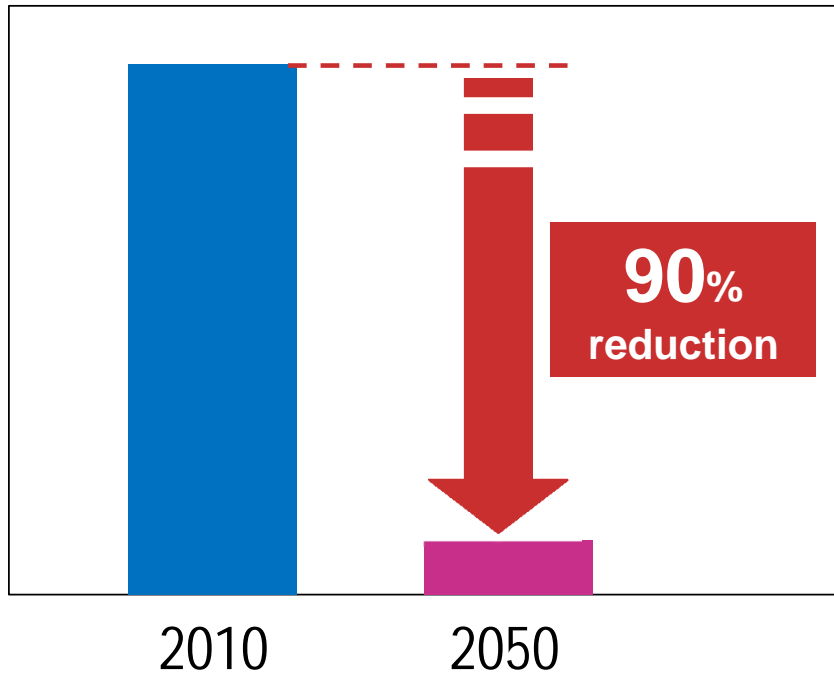
Plug-in Hybrid Prius



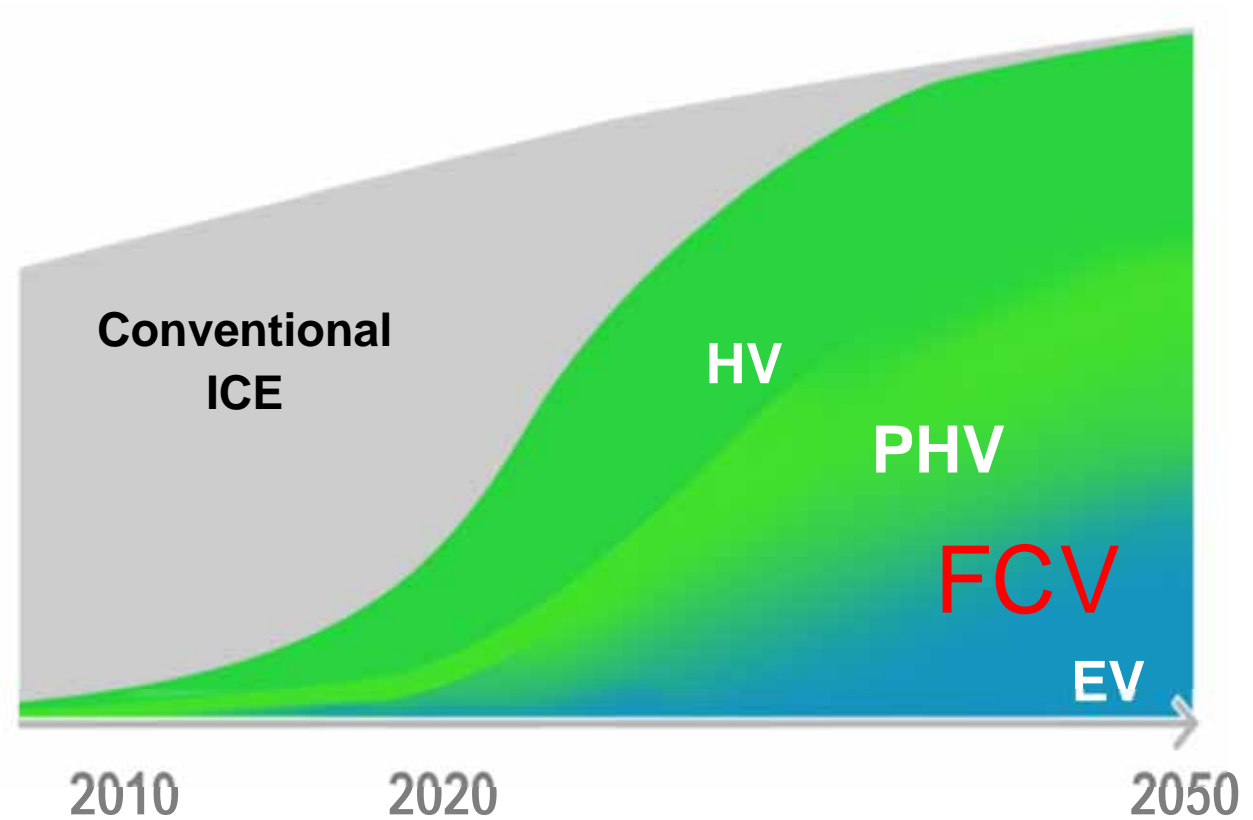
		New Gen. model	Current model
EV mode range (JC08 test cycle)	(km)	At least 60	26.4
HV mode fuel efficiency	(km/L)	37	31.6
EV mode top speed	(km/h)	135	100
Lithium-ion battery capacity	(kWh)	8.8	4.4



New vehicle CO₂ (average)

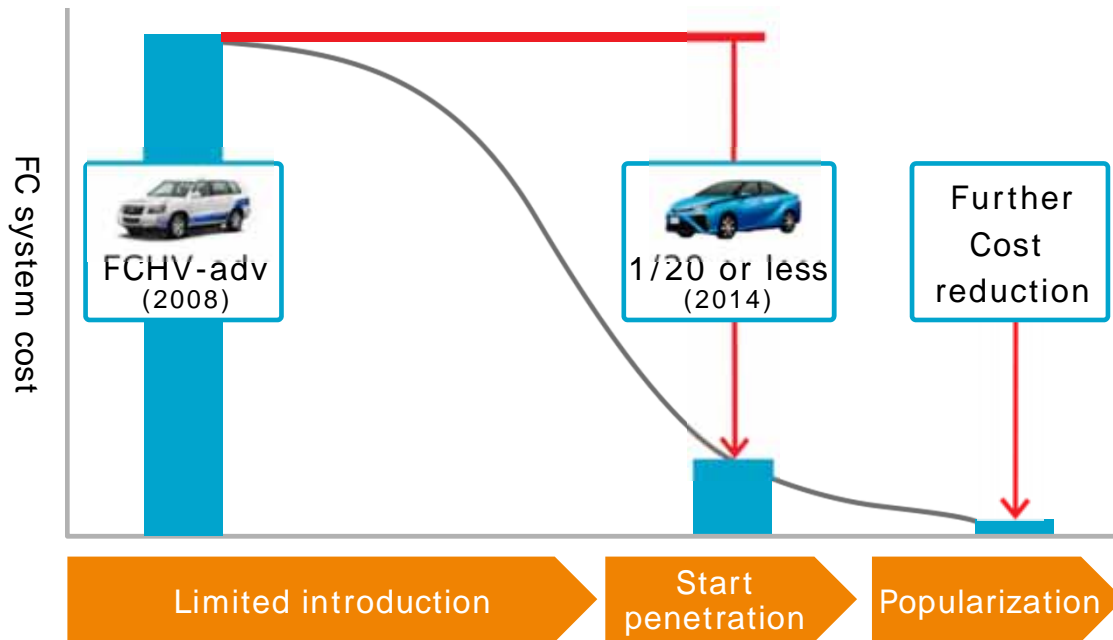


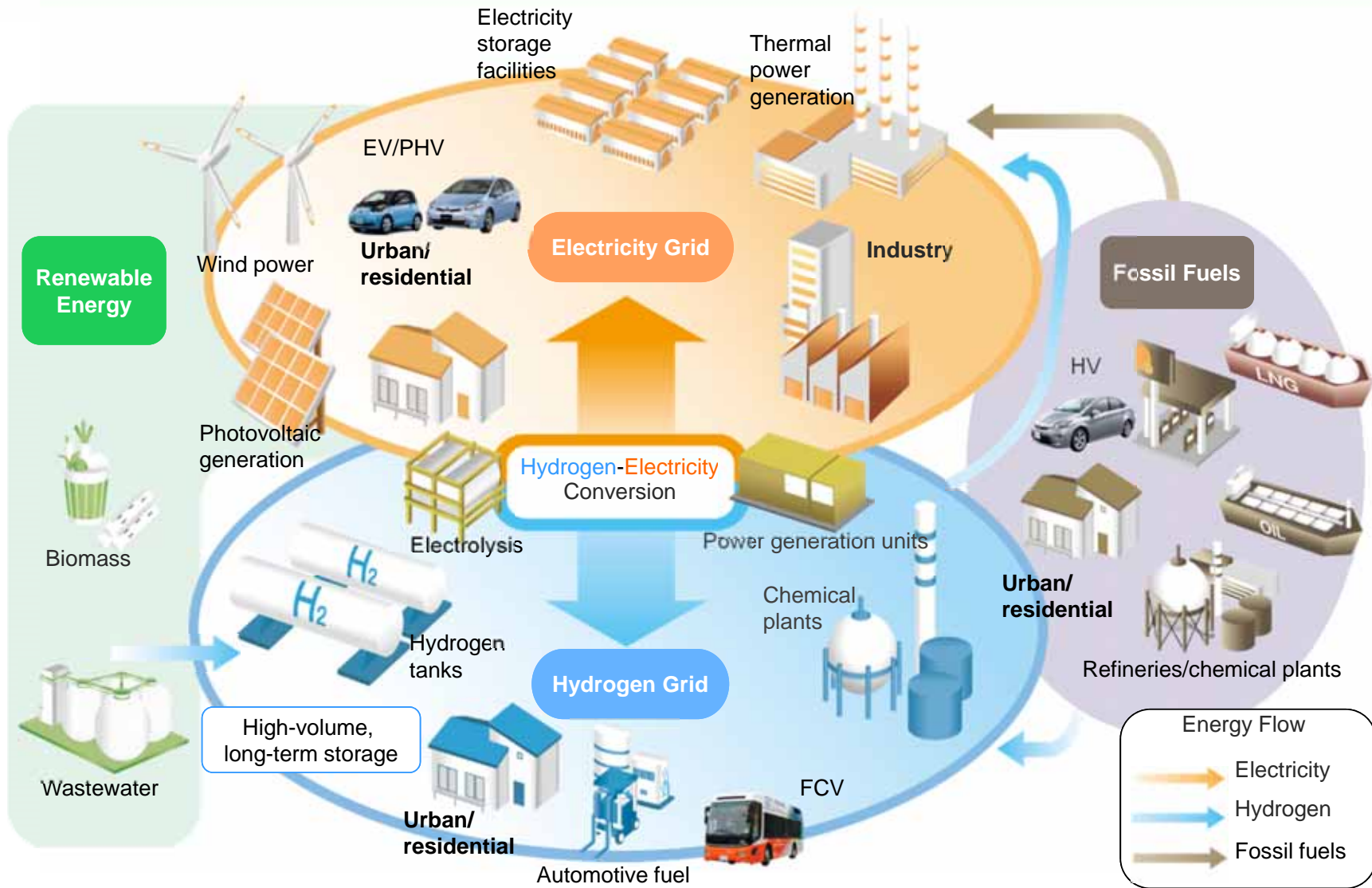
Powertrain mix





Advantages of FCV





HyGrid Study Group