

PASSENGER VEHICLE TRANSFORMATION

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Asilomar 2009

Transportation Vision: 2050

One Possible Scenario

GHG 2050

BAU	182 MMT
Vision	23 MMT
% Red.	87%

Conventional



% veh.	10%
mpg	40 mpg

Biofuel/HEV



% veh.	18%
mpg	60 mpg

Electric/H2



% veh.	72%
mpg	80+ mpg

Timing: Introduction of Ultra-Low Carbon Vehicles

Commercial-ization Phase	Market Share - New Vehicle Sales	~Years to occur
Early commercial	A few 100s \diamond ~ 1 %	10 (2020)

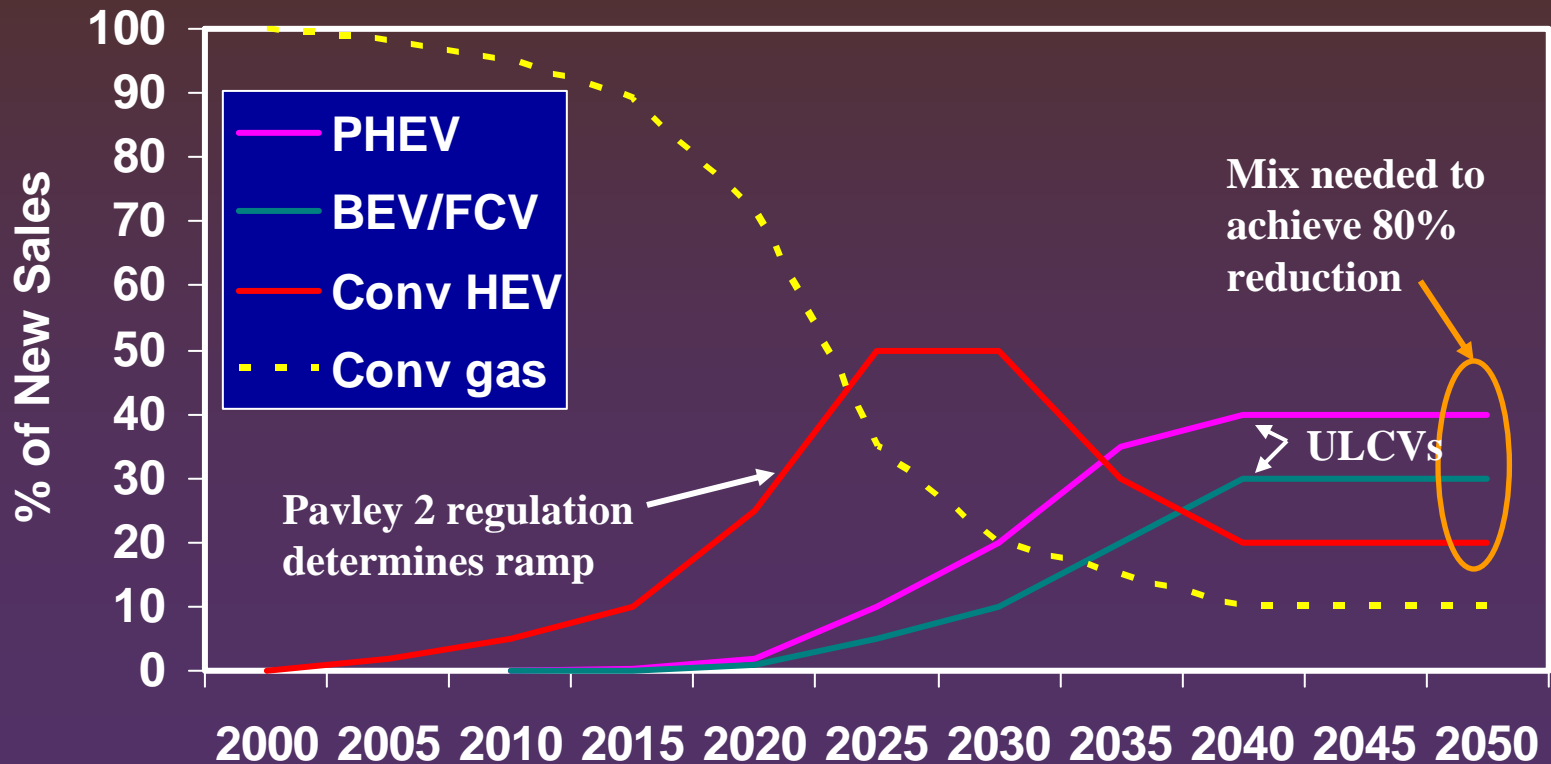
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Fleet turnover	Remain at max. market acceptance	15 (2050)

Example of Possible* Ultra Low Carbon Vehicle Introduction Rates



* Not a prediction, but designed to show an example of what is needed to achieve 80% reduction by 2050.