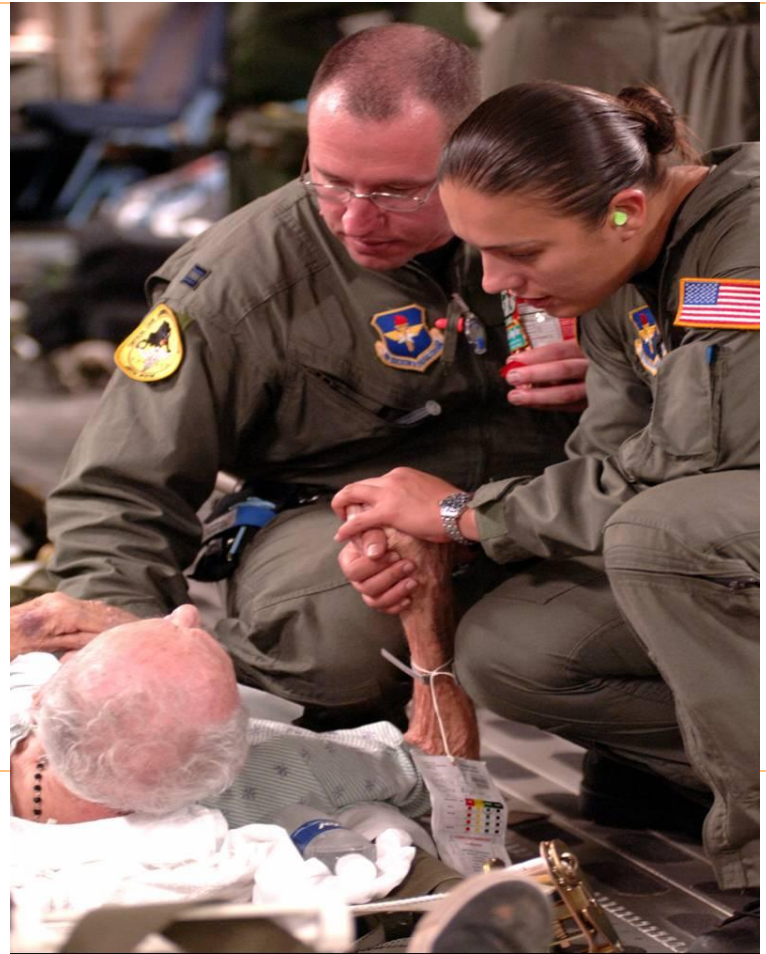


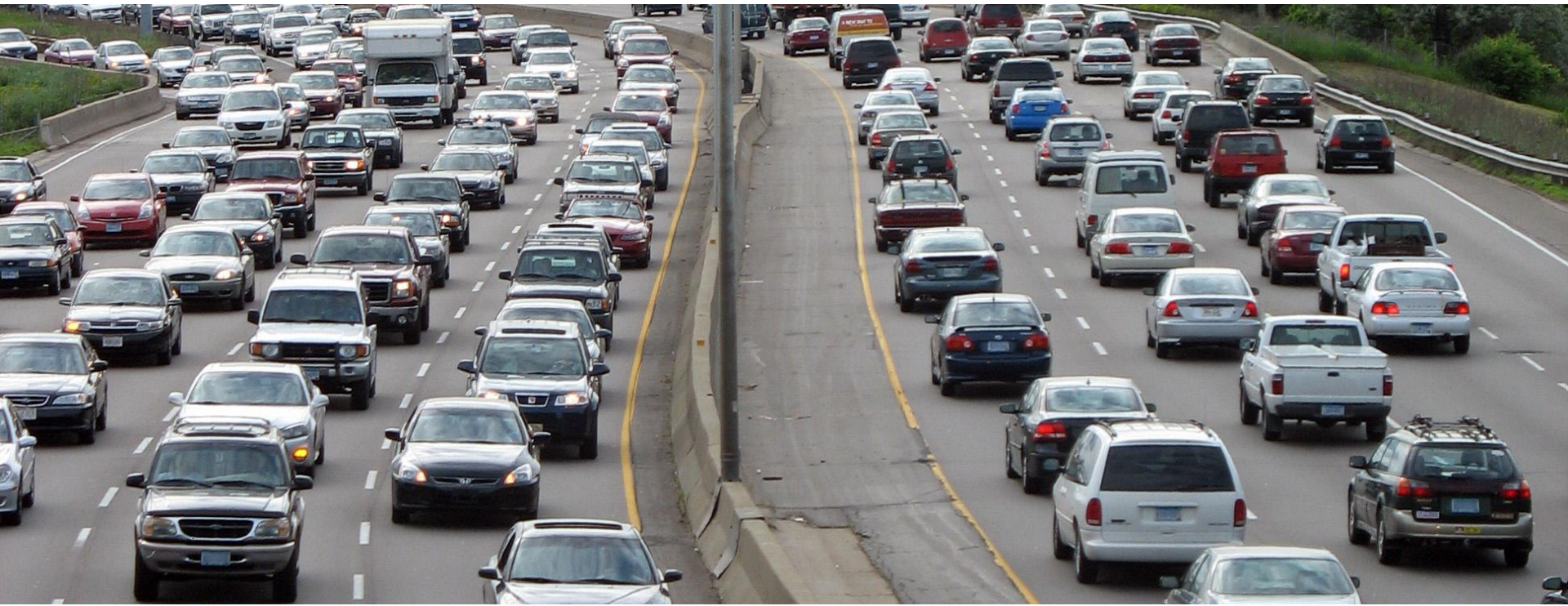


FUEL CELLS AND HYDROGEN ENERGY

brief overview

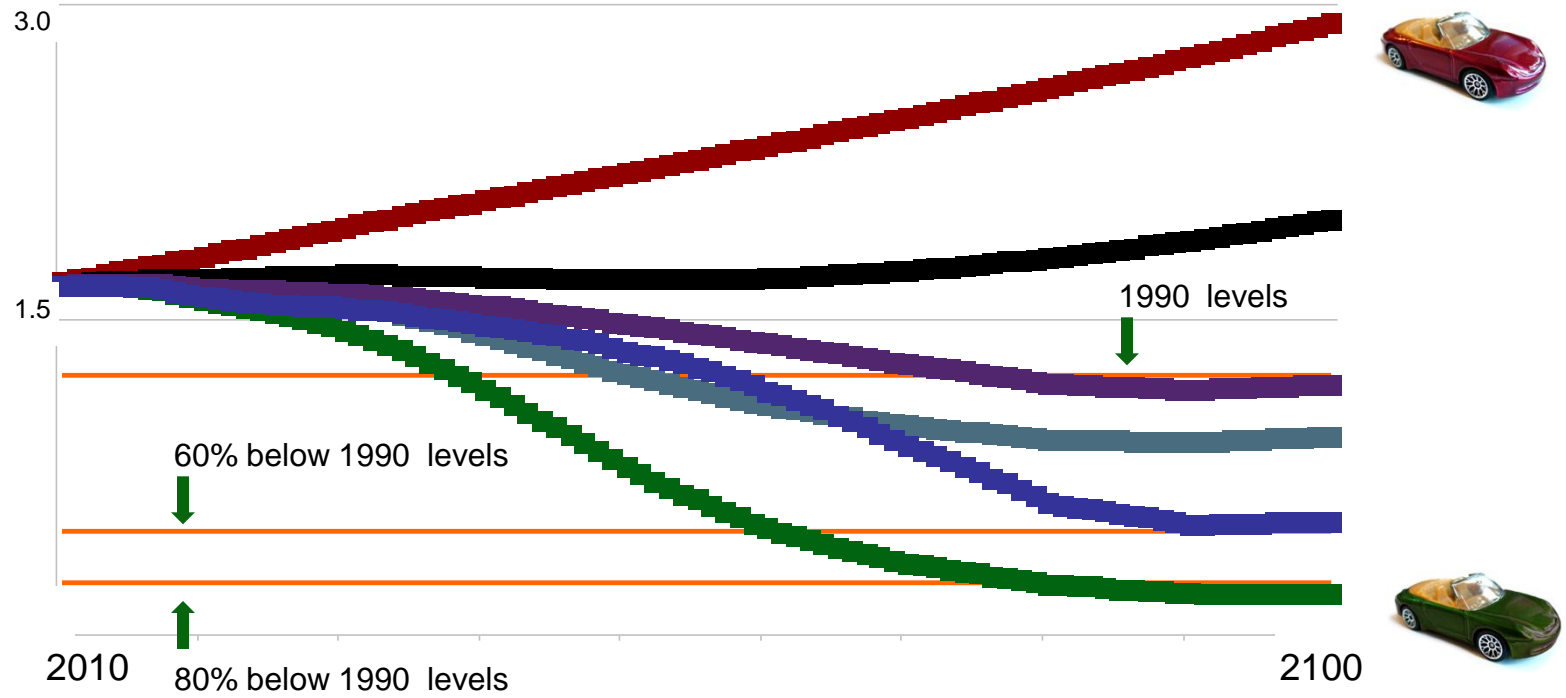
Patrick Serfass, VP, National Hydrogen Association





GREENHOUSE GAS POLLUTION

billion tonnes CO2 equivalent per year



■ gasoline internal combustion engine vehicle scenario

■ gasoline internal combustion / plug-in hybrid vehicle scenario

■ battery electric vehicle scenario

■ gasoline internal combustion / electric hybrid vehicle scenario

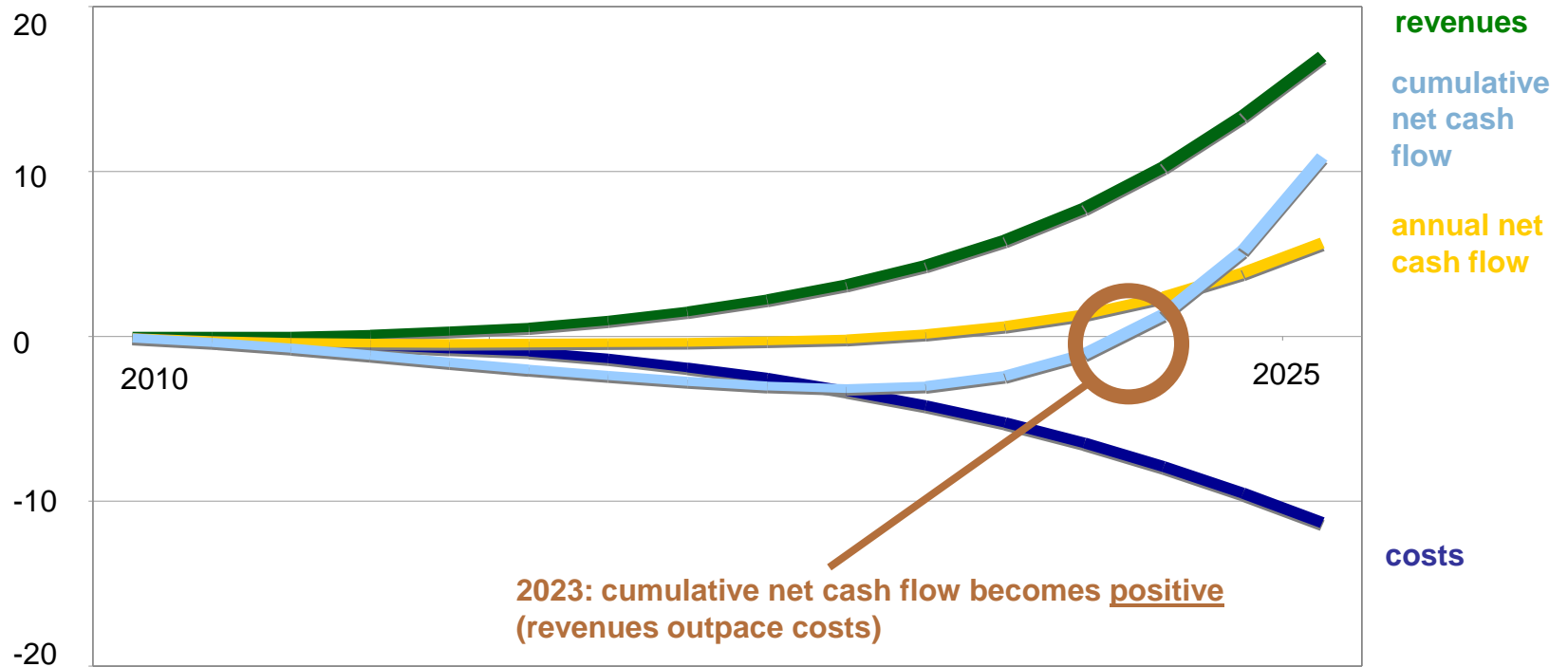
■ ethanol internal combustion / plug-in hybrid vehicle scenario

■ hydrogen fuel cell electric vehicle scenario



ANNUAL COSTS & REVENUES OF HYDROGEN FUELING INFRASTRUCTURE

\$billions per year





top 10 American cities by population



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