



Covid-19 and Fuel Economy Regulation: Oil and Vehicle Market Implications

USAEE Webinar 14 May 2020

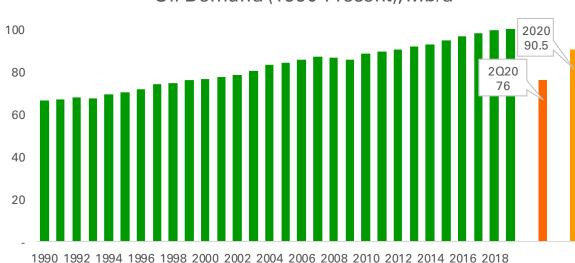
Michael Cohen Chief US Economist & Head of Oil Analysis Unprecedented 20-30% shock to oil demand

With over 4 billion people under lockdown measures,

April, 20 experienced worst demand destruction

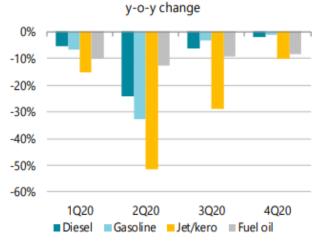
Including large contraction in aviation and gasoline

bn



Oil Demand (1990-Present), Mb/d

Transport Fuel Demand

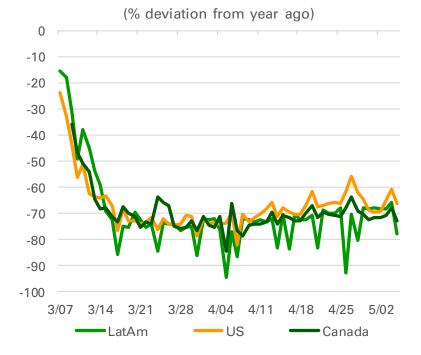


Source: BP (history), IEA (forecast)

Now, transportation fuel demand is gradually rebounding

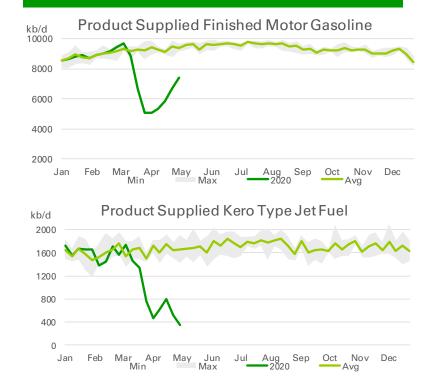
High frequency indicators showing only moderate improvement...

Road Congestion - Americas



...and refineries are managing the shift in products needed

bb



Source: TomTom

Source: EIA

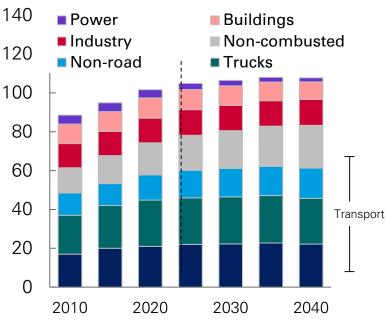
Transportation plays a prominent yet diminishing role



60% of liquids consumption from transportation fuels

Mb/d

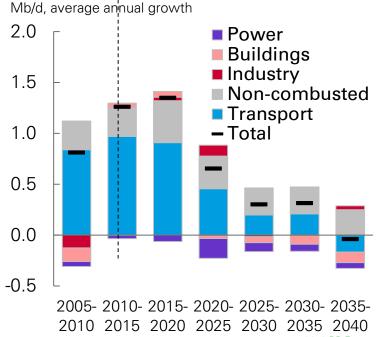
Liquids demand



Cars include 2- and 3-wheelers. Trucks includes most SUVs in North America. Non-road includes aviation, marine and rail

But the growth comes from noncombusted fuels

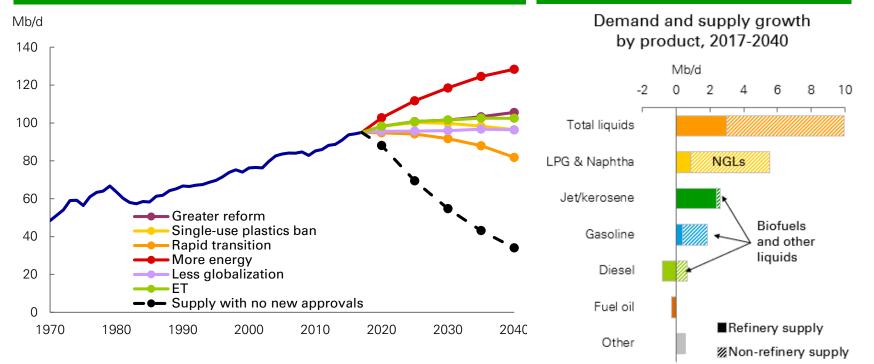
Liquids demand growth



2019 BP Energy Outlook © BP p.l.c. 2019

Wide variability in oil demand scenarios

Covid-19 will require review of transportation efficiency, technology and policy assumptions which already led to a wide range of oil demand pathways Jet/kero demand forecast to account for majority of refinery product supplied bD



Source: BP Energy Outlook 2019

Short/Medium/Long term effects on transportation

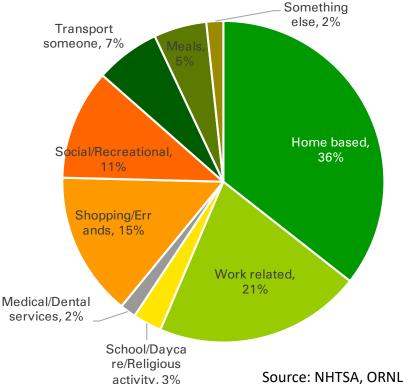
Low fuel price, wealth shock to act as headwind to fuel economy improvement

Breakout of US VMT shows significant risk of lower fuel demand





2017 NHTSA: Share of VMT



Source: TSE, EPA, MarketView