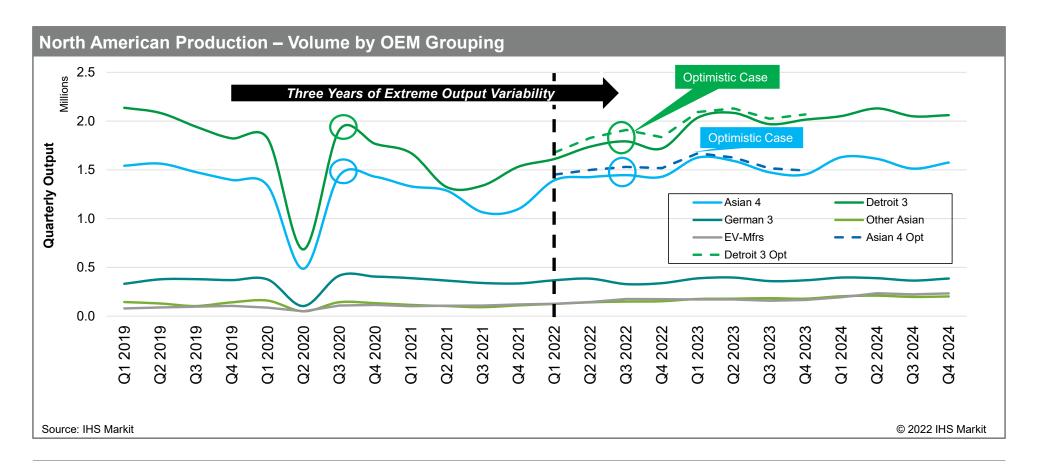
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North America Production Volume by Quarter

3Q2021 may be the low point though 2022 is highly variable from a 'pace' perspective



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Production Outlook: North America – NA Regional Shift

Segment & OEM Shifts Pressure Logistics and Supply Structures





- Mix towards D/E-segment and Full Frame
- Detroit 3 still account for +55% of MW/ONT volume by 2028
- Remarkable stability newer facilities w/export focus
- Higher concentration on BEV structures
- Rising principally with Tesla in CA & Texas
- Electrified propulsion allows for new supplier ecosystems
- Mid-Mexico has accounts for ~70% of Mex volume
- Rise of C-segment products with increasing luxury and export focus

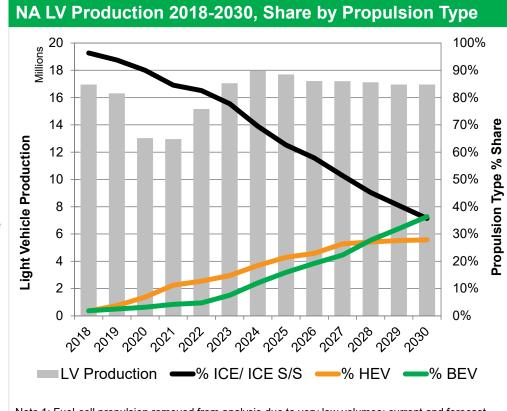
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North American Production Overview

BEV share increased on stimulus effects, product availability, hybrid timeline and preference

HEV

- Vehicles with internal combustion engines to decline to 64% of total volume by 2030 – a decline of ~ -5% CAGR from 2022 to 2030
- In this analysis, Hybrid Electric Vehicle (HEV) will refer to all forms of electric-assisted propulsion systems though still have an ICE engine present.
 - Mild-Hybrid Electric Vehicle (MHEV)
 - Full-Hybrid Electric Vehicle (FHEV)
 - Plug-In Hybrid Electric Vehicle (PHEV)
- Hybrid volume levels out by 2027 as BEV alternatives rise thereafter.
- BEV propulsion growth rises to ~6.2 mil units by 2030, 36% or a CAGR of 29% from 2022 to 2030.
- In the US, the rise in BEV is more precipitous (due to segment dynamics) – rising to 41% by 2030 – a CAGR rise of 27% per annum through 2030. Conversely, ICE installations will decline 5.6% per annum through 2030.



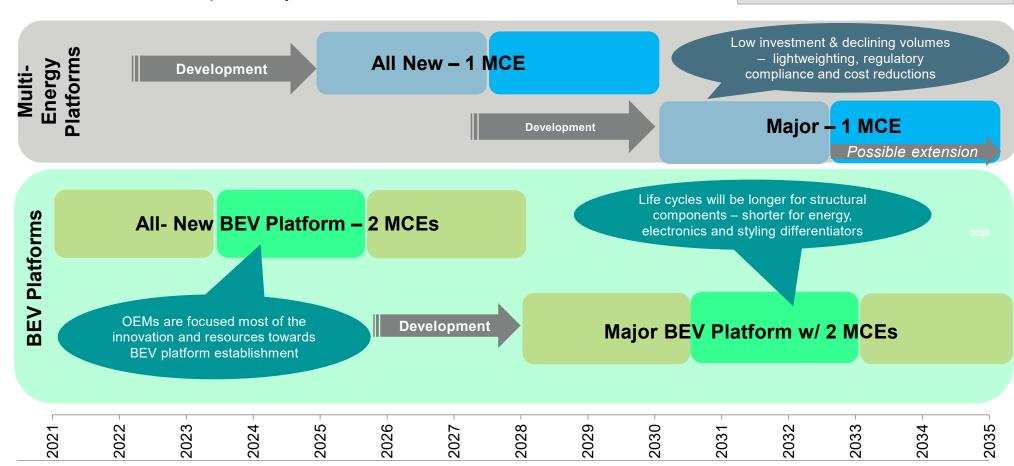
Note 1: Fuel-cell propulsion removed from analysis due to very low volumes: current and forecast. Source: IHS Markit Nov 2021

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BEV-Only After 2035?

Two More ICE Development Cycles - Finite, Restricted and Riskier

Suppliers need to work <u>backwards</u> to efficiently invest in Multi-Energy Platforms.
Only two cycles to amortize major investments, new facilities, ICE innovations.



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