



TOYOTA

Vehicle Production Ramp-Up

Toyota to Expand Mass-Production of FC Stacks and Hydrogen Tanks for 10x Increase Post-2020

- Forecast global sales of FCEVs to increase significantly after 2020 to 30,000/yr, from 3000/yr today
- New building at Toyota City, Japan, Honsha Plant, to produce Fuel Cell (FC) Stacks
- New production line at Shimoyama Plant to produce H70 hydrogen tanks
- Expansion of sales market areas globally
 - Currently
 - Mirai sold retail in 11 countries (JP, US, EU)
 - Demo Mirai activity in Australia, Canada, China, UAE
- Lexus LF-FC Flagship Concept Revealed at the Tokyo Motor Show



<https://newsroom.toyota.co.jp/en/corporate/22647198.html>

<https://newsroom.toyota.co.jp/en/detail/9834836>

Infrastructure – Shared Objective / Shared Challenge

Pivot from Demonstration to Commercialization

Commercial Success for
FCEV and H2 Refueling



Slow Launch without
Scale is Not Viable



Objective: scale increase for FCEV market adoption and HRS cost reduction;
achieve end of Government support at a competitive fuel price.

Hydrogen Network Buildout – Consider New Scenarios

Lessons Learned...

- OEM location target survey as a defined process [CaFCP]
- Bulk orders of equipment allows cost reduction
- Bulk site development allows build-out acceleration
- Increase in equipment performance (i.e.; multiple fueling positions)
- Robust supply and distribution as part of the network planning; and influence on the station design
- Co-located fueling of HDV and LDV is case specific; not for growth

Recommend to “Hydrogen Network” Team to Develop Solutions and Implementation Approach

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