Toyota Fuel Cell Overview

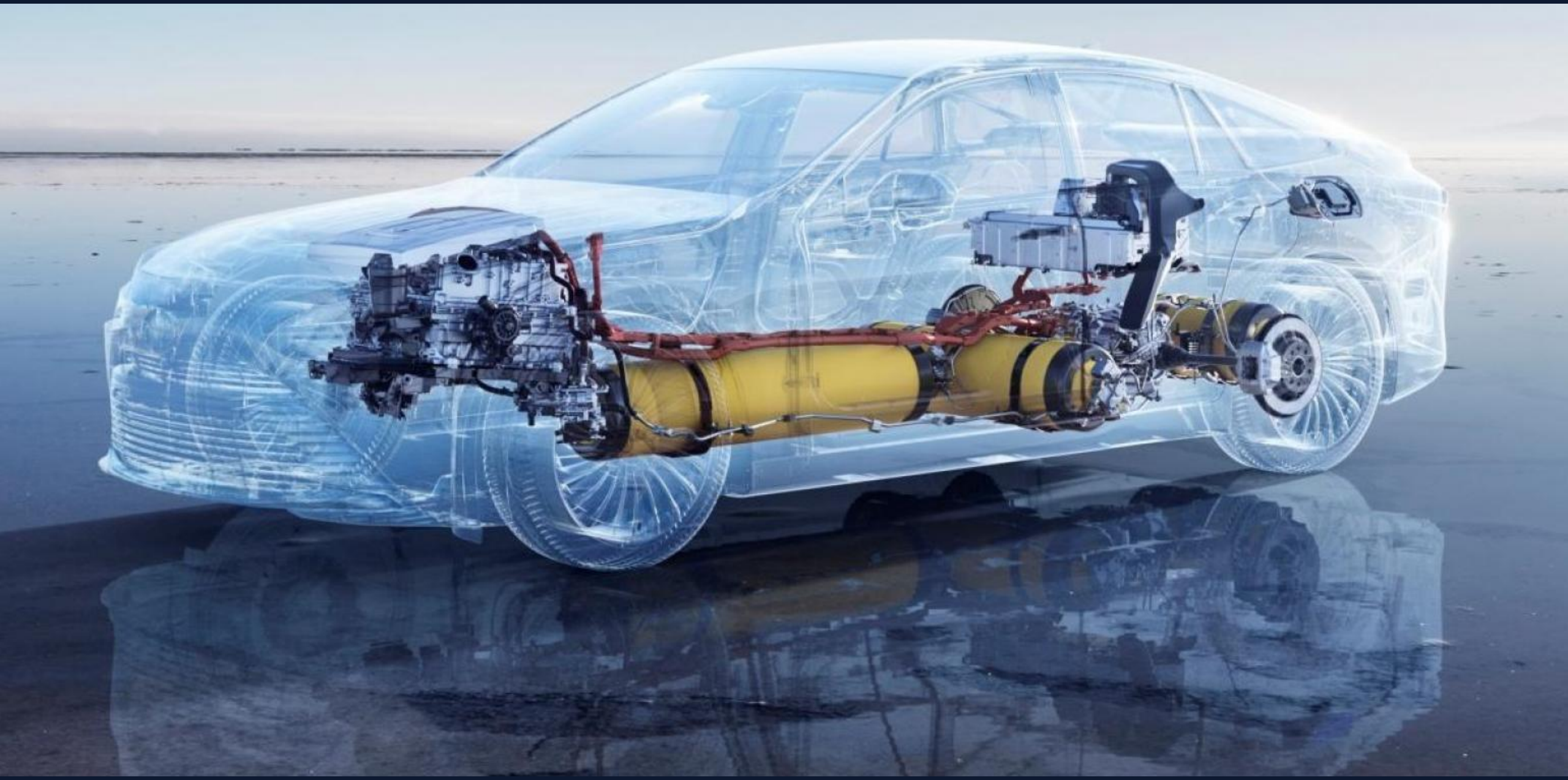
COLORADO
SEPTEMBER 20, 2022

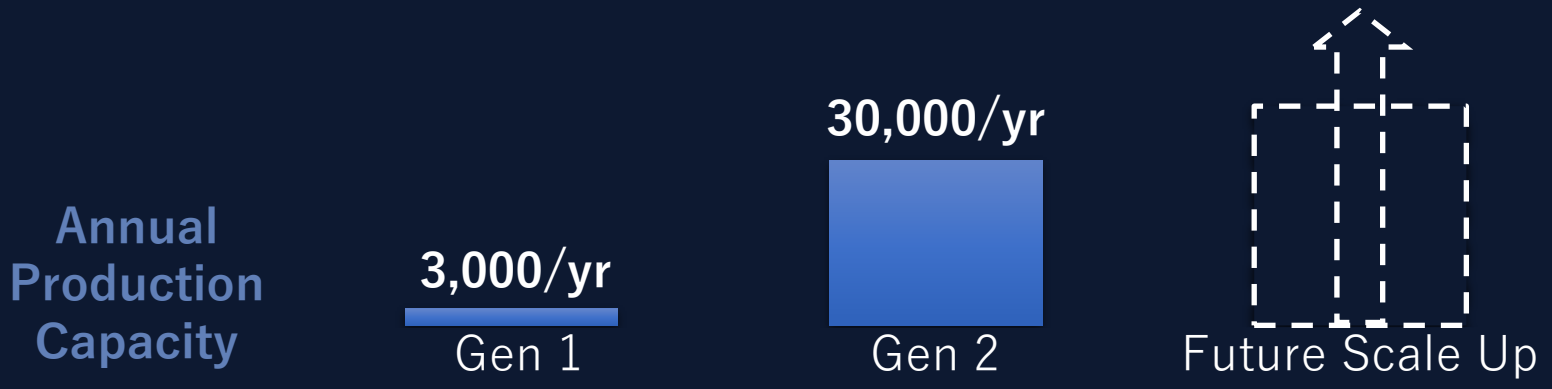
TOYOTA

PROTECTED 関係者外秘

TOYOTA ENVIRONMENTAL CHALLENGE 2050

H2



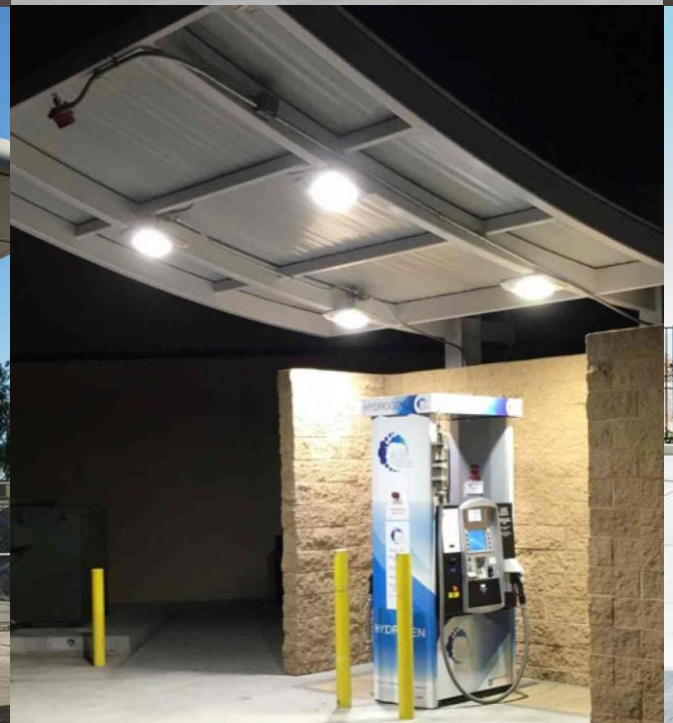

Annual Production Capacity
3,000/yr
Gen 1
30,000/yr
Gen 2
Future Scale Up

H2
H2

Hydrogen
Hydrogen

Iwatani
Hydrogen Station
Iwatani

Hydrogen



ITM POWER
Energy Storage | Clean Fuel
HYDROGEN PRODUCED ON-SITE
ITM POWER
Energy Storage | Clean Fuel

Initial Prototypes

10 Truck Pilot

Production Intent
2023 TMMK

Zero Emissions Kenworth T680 FCEV on the Climb to 14,115-Foot Pikes Peak Summit

Watch later Share

2:21 / 2:31

YouTube

2

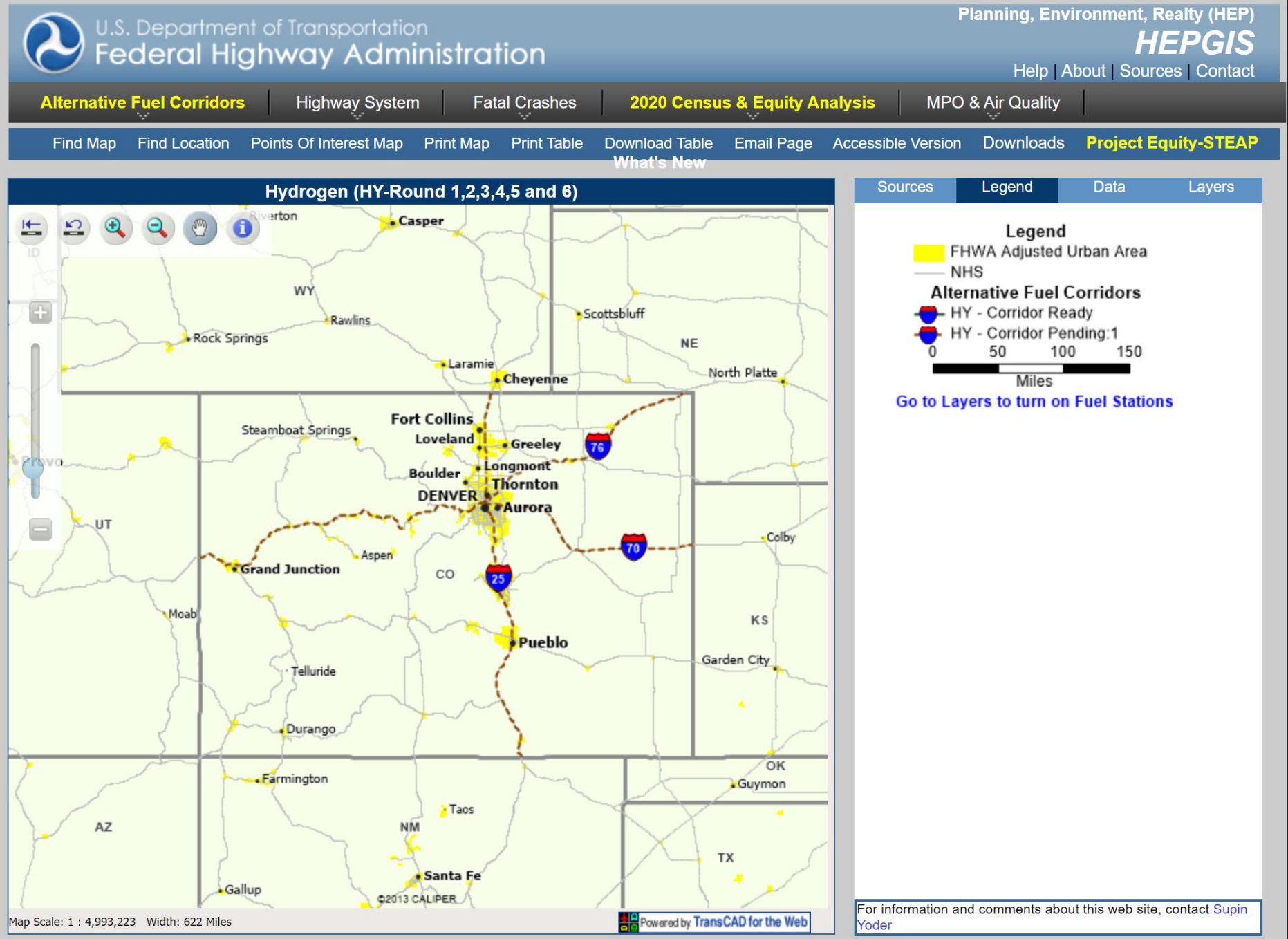
INITIAL HEAVY-DUTY STATIONS

3

NEW HEAVY-DUTY STATIONS

IIJA §11401
$2.5B for
EV charging,
Hydrogen refueling,
propane and natural gas infra grants for FY22 – FY26

- Discretionary grant program
- $15 million / 80% of project costs
- Hydrogen Alt Fuel Corridor designation critical
- Only state, municipal, regional governments can apply



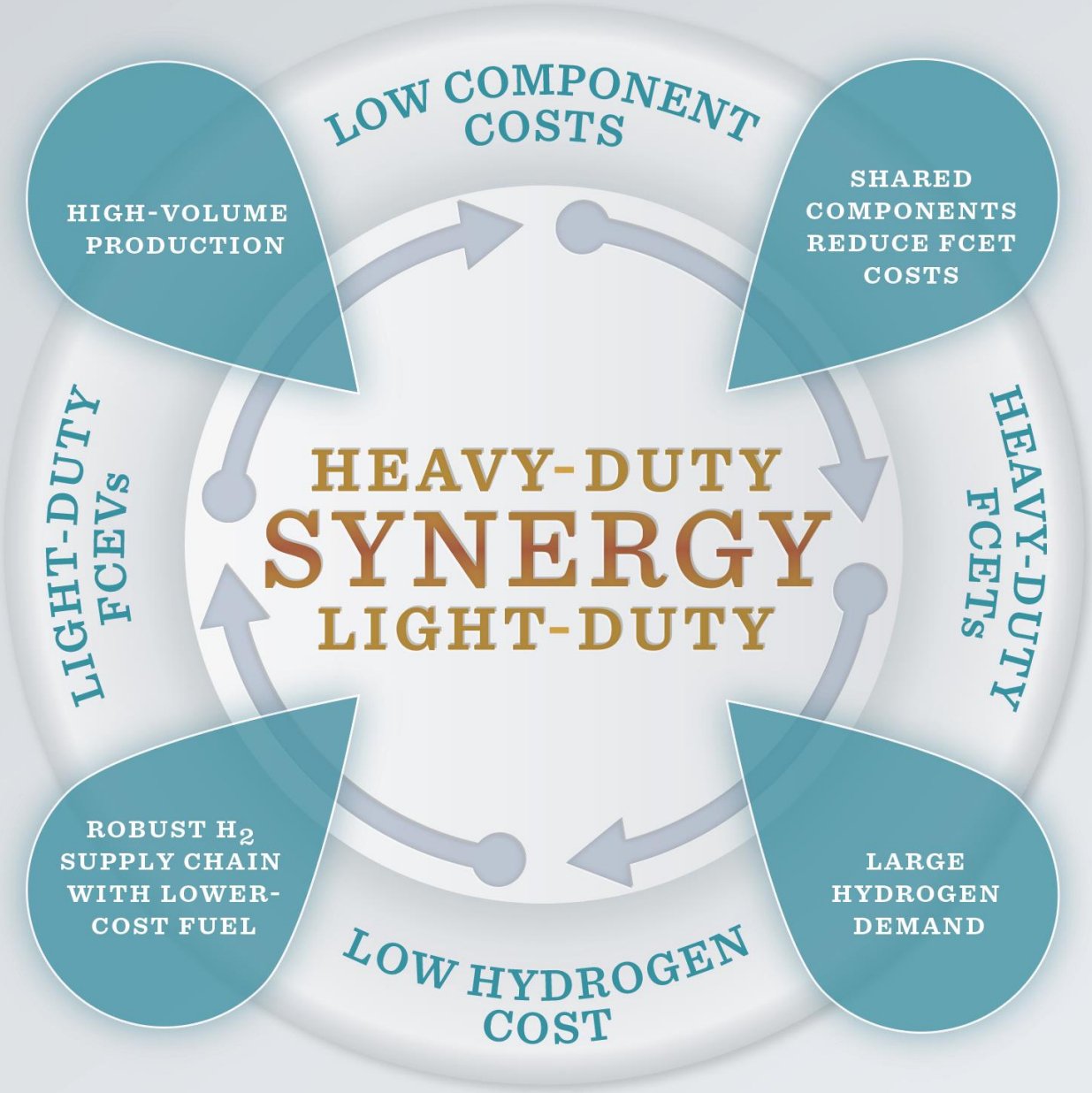


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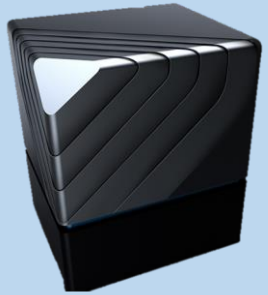
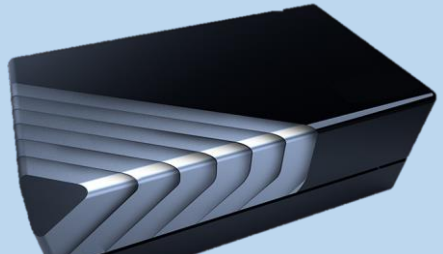
FIGURE 9 | *Economies of scale reduce cost*

FCV
ZERO EMISSION
TOYOTA

TOYOTA

Iwatani
水素
FUEL CELL BUS
TOYOTA

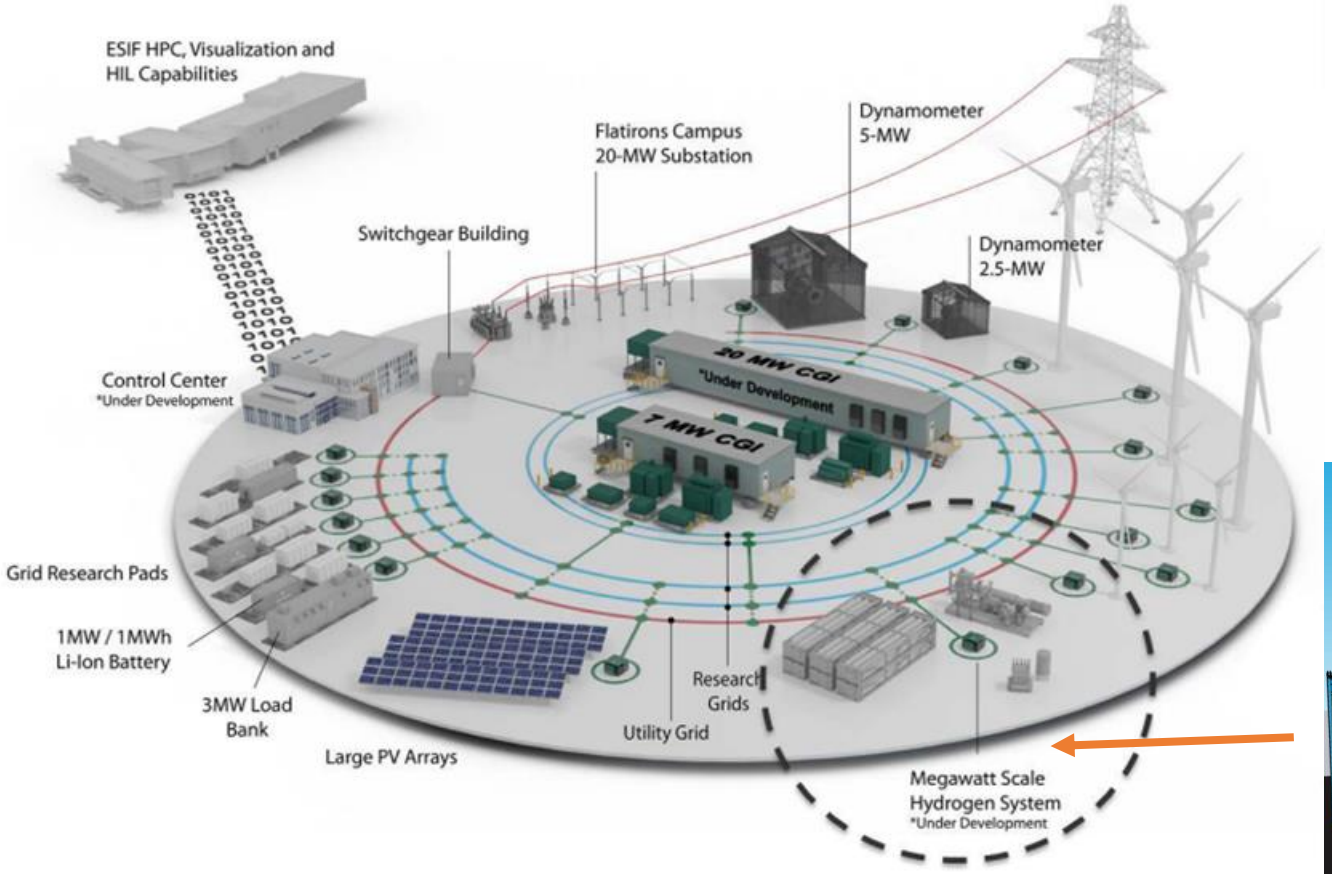


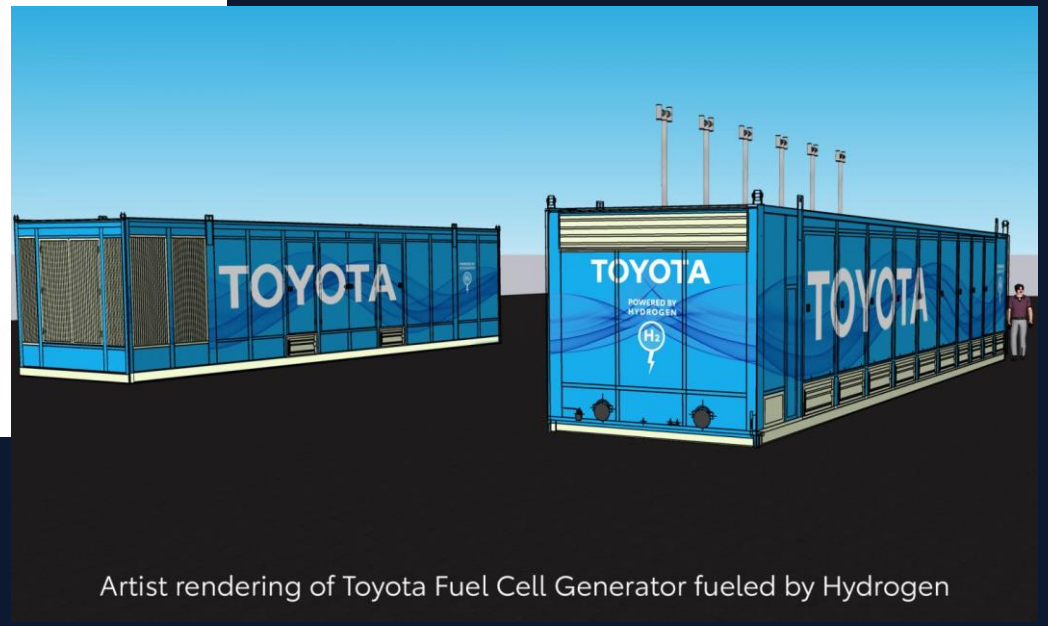


MOTOMACHI
TOYOTA
FUEL CELL

·· PROTECTED 関係者外秘

Toyota, NREL Collaborate to Advance Megawatt-Scale Fuel Cell Systems





Artist rendering of Toyota Fuel Cell Generator fueled by Hydrogen

https://pressroom.toyota.com/toyota-nrel-collaborate-to-advance-megawatt-scale-fuel-cell-systems/

Zero Emissions Kenworth T680 FCEV on the Climb to 14,115-Foot Pikes Peak Summit