

1

Physics 100

Future Car Video (2004)

...A decade later...

March 30, 2016

2016 Hydrogen cars?

- The video mentions Ford research into a direct-burning hydrogen car.
- Ford Motor Company and French Renault-Nissan **cancelled their hydrogen car R&D** efforts in 2008 and 2009, respectively, but they **signed a 2009 letter of intent** with the other manufacturers and Now GMBH in September 2009 supporting the commercial introduction of FCVs by 2015

2016 Hydrogen cars?

- The GM *Hy-Wire* never went into production
- It was superseded by the *Sequel*, which was never produced, either. GM instead produced the *Volt* and began developing electric vehicles
- GM is involved in the *HydroGen4*, which may enter production in the 2015-2020 time frame.



2016 Hydrogen cars?

- You can buy two fuel cell cars in California:
- Hyundai Tucson



Toyota Mirai



The Honda FCX Clarity is currently available only in Japan.

2016 Hydrogen storage?

- The Energy Conversion Devices company, including Ovonic Hydrogen Systems LLC, which developed the hydrogen storage method mentioned in the film, filed for bankruptcy in 2012.
- A French company, [McPhy Energy](#), is currently selling a metal hydride product for storing hydrogen as a solid.



2016 Hydrogen cars?

- In 2016 there are 14 hydrogen refueling stations in California that are open, and 27 more under development. There are a smattering of other stations in the US, including Hawaii.
- There are dozens in Europe, but still only one in Iceland.

