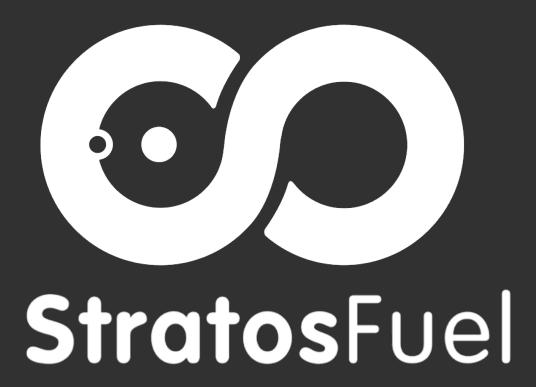
CKETED	
Docket Number:	17-HYD-01
Project Title:	Renewable Hydrogen Transportation Fuel Production
TN #:	215733
Document Title:	Presentation - StratosFuel
Description:	By Jonathan Palacios-Avila
Filer:	Tami Haas
Organization:	StratosFuel
Submitter Role:	Public
Submission Date:	2/1/2017 1:48:16 PM
Docketed Date:	2/1/2017



01.30.2017 California Energy Commission: Pre-Solicitation Workshop on Implementation

Strategies for Production of Renewable Hydrogen in California (17-HYD-01)

By: Jonathan Palacios-Avila, CEO

Our history

08.2013 Formation

StratosFuel was founded with the vision to establish a renewable hydrogen infrastructure.

StratosFuel in conjunction with Ontario CNG was awarded funds from the CEC to build a 100% renewable onsite production station in Ontario, CA

9.2014 Grants

11.2015 Mobility Applications

Stratosfuel developed and launched a mobile application to locate a relay station status's.

1.2016 Construction

StratosFuel formed a construction division to improve our hydrogen station development services.

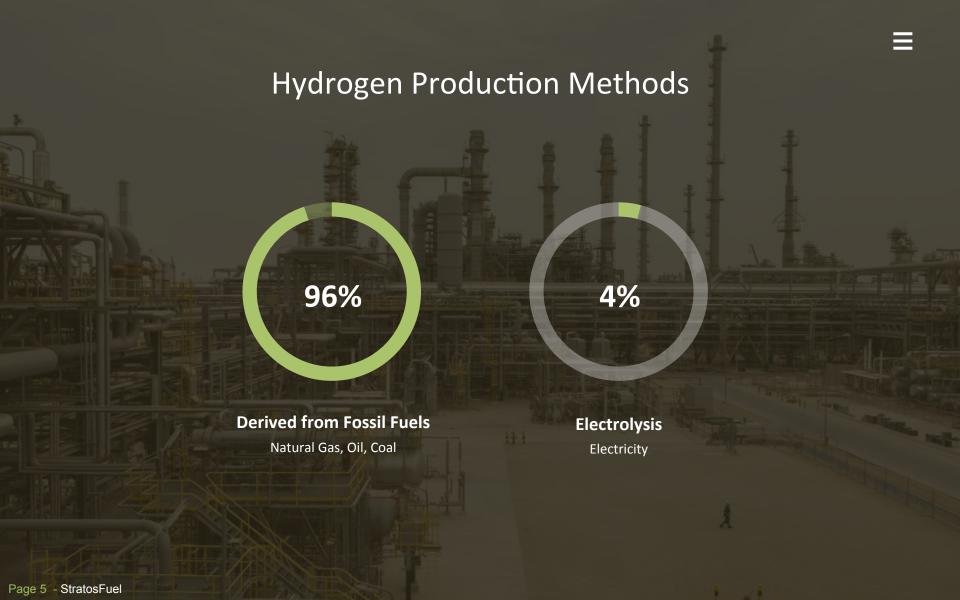
StratosFuel signed a 30-year PPA with a wind farm in Palm Springs, California.

9.2016 Power Purchase Agreement

10.2016 Wind-to-Hydrogen

StratosFuel announced their strategic partnership with Hydrogenics to build North Americas largest wind-to-hydrogen production facility.

Hydrogen Production



Renewable Hydrogen

Senate Bill 1505

At least 33% of hydrogen produced in California, in the aggregate, must come from renewable feedstock's.



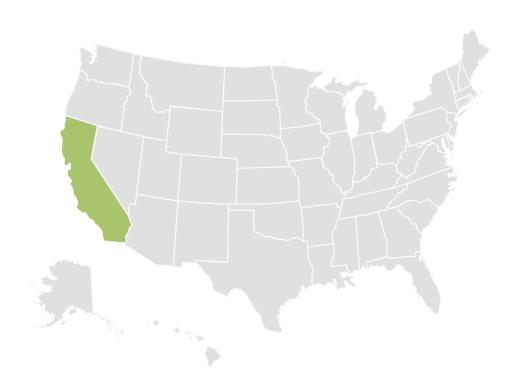
Methods

Renewable hydrogen is commonly achieved through RNG's and REC's, but can also be produced from biogas, or renewable electricity, such as wind and solar.

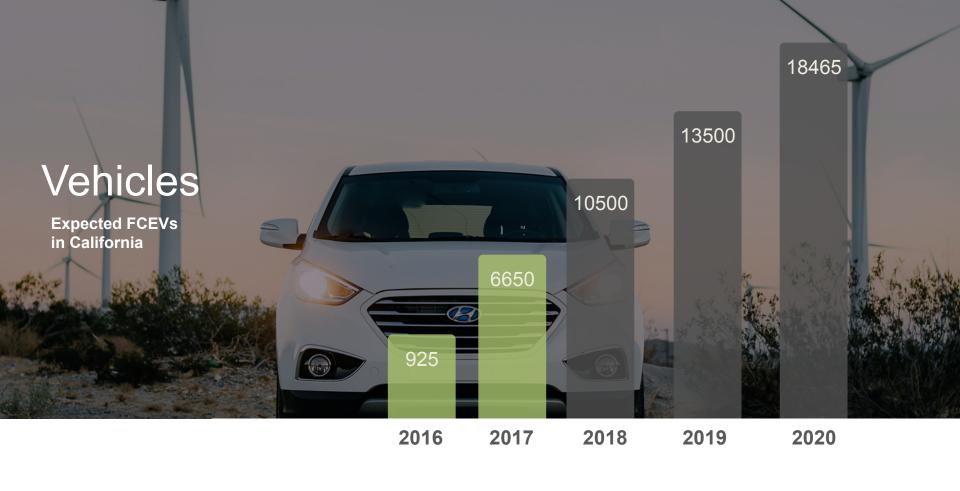


Availability

There are currently no direct renewable hydrogen production sources in California.



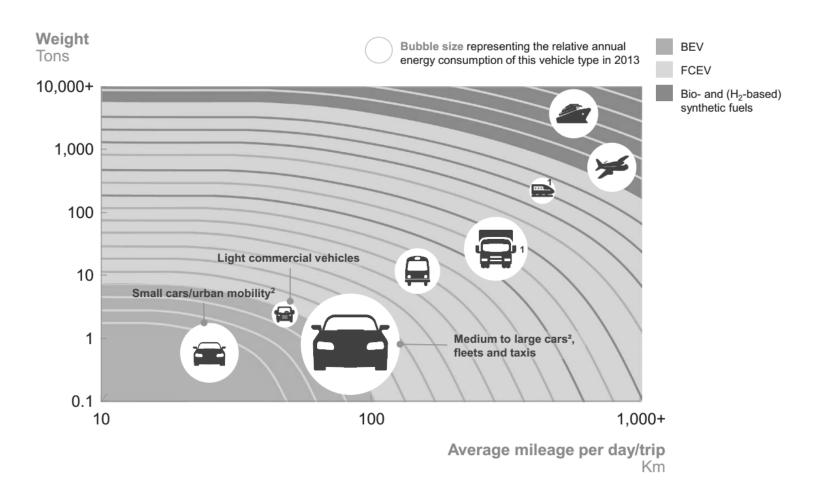
Mobility | Demand



FCEV adoption is expected to go from hundreds to thousands in 2017...

And that is for light-to-medium duty vehicles only

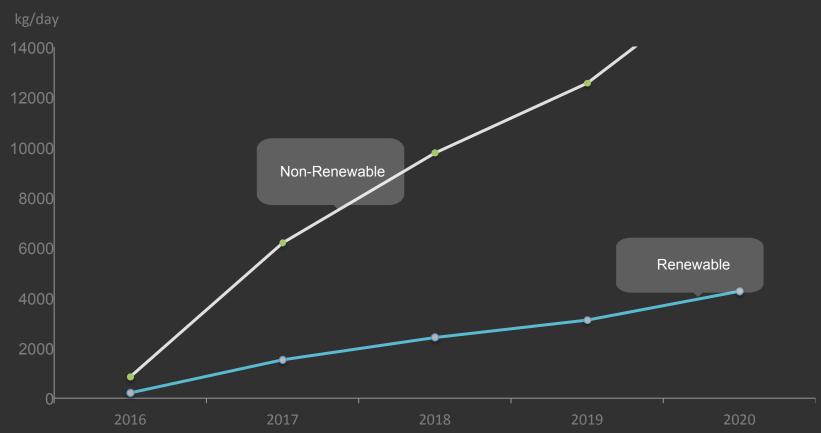
FCEVs will play an essential role in decarbonizing transport



Page 9 - StratosFuel (source: "How hydrogen empowers the energy transition", Hydrogen Council, 2017)

Hydrogen Supply

Projections are based on a daily consumption value and expected FCEVs releases.



Demand Fulfillment



Feedstock

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Wind and Solar

Electrolysis

.

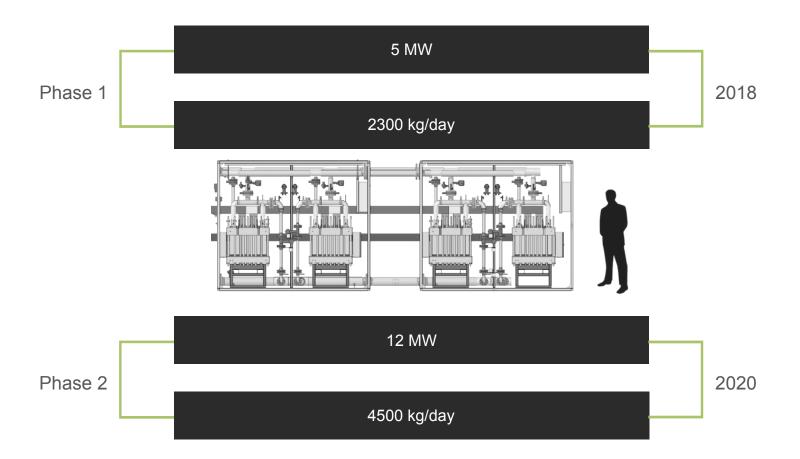
Selected Hydrogenics compact MW PEM electrolyzer for its ability to scale up to meet the future demand and local servicing

Proximity

. . . .

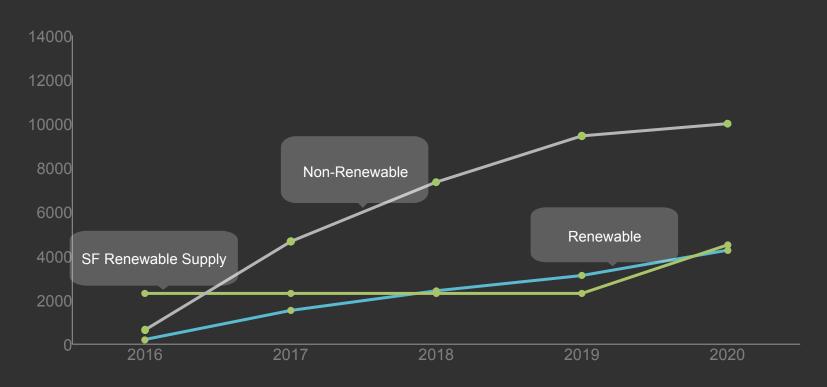
The wind-to-hydrogen can serve most stations in Southern California without causing logistical issues.

Multi-Phase Build Out

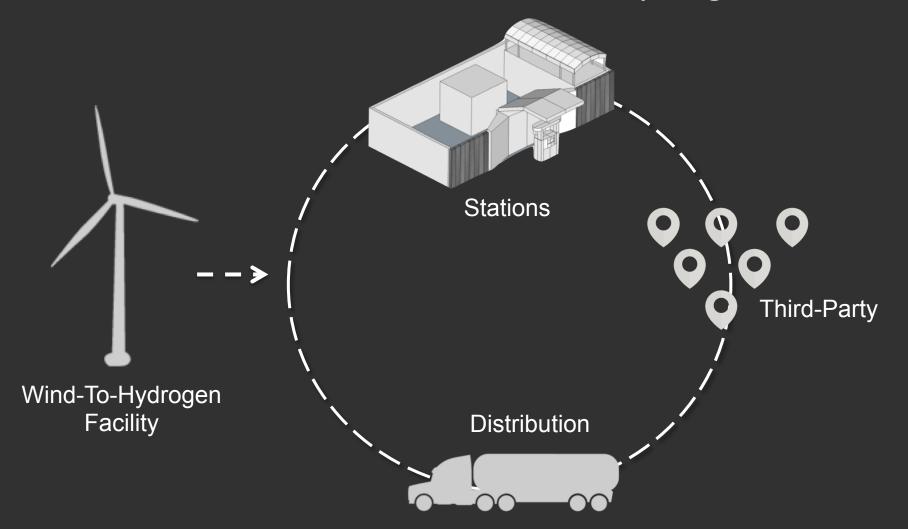


Hydrogen Supply

Projections are based on a daily consumption value and expected FCV's releases.



Centralized Renewable Hydrogen



Suggestions

- Upgrades to Existing Production Facilities
 Time, Location and permitting.
- (2) Location

Scalable and Large Production

Thank you!

Get in Touch

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