



CALSTART CLEAN TRANSPORTATION SUMMIT CALIFORNIA: 2030

Expanding in-state Advanced Biofuel Market

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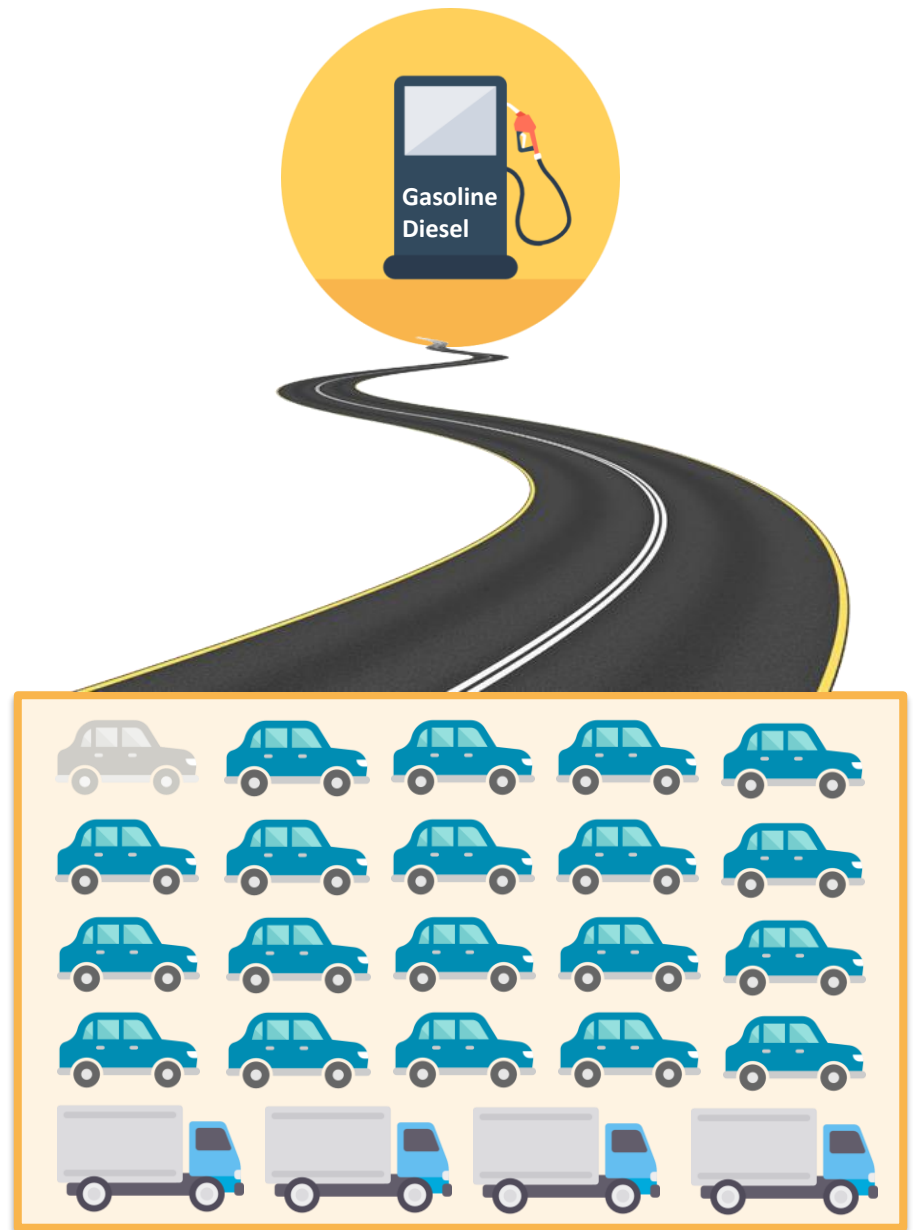
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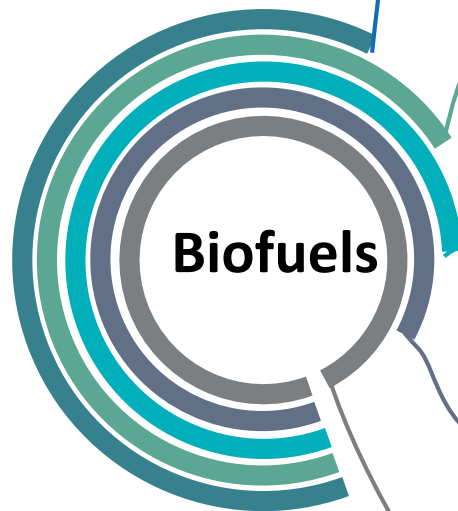
CURRENT STATE

“The California transportation sector depends largely on petroleum, with **91%** of the roughly **29.8 million** vehicles in the state relying exclusively on either gasoline or diesel for fuel.”

- CEC Energy Assessments Division,
with data from the California DMV



CURRENT STATE



Renewable diesel: 248 million gallons used

- 23 million gallons produced in California
- 54.5 million gallons /year future production
- majority supplied through overseas imports

Biodiesel: 163 million gallons used (per LCFS)

- 40 million gallons produced in California
- 82 million gallons will be coming on line

Ethanol: 220 million gallons produced in state

- the largest volume alternative fuel used in CA
- use has not substantially changed since 2011
- Flex-fuel vehicles in CA used a total of 18.7 million gallons of E85

Biogas: Fully realized, CA biogas could produce enough electricity to power 182,071 homes (3.0 billion kWh) or enough renewable natural gas to fuel 435,506 vehicles

Renewable Hydrogen: Annual production capacity of more than 1.8 million metric tons

CA is the second largest user of hydrogen, second only to Texas

FUNDING FOR CAPACITY GROWTH

Major Funding Sources for Biofuel Production Projects in CA (millions \$)



Source: California Energy Commission. All funding in millions of dollars. ARFVTP and CDFA funding is for FY 2017-2018; CalRecycle funding is for FY 2016-2017. *CalRecycle and CDFA funding is limited to anaerobic digester projects that produce biomethane gas.

To date, CEC has awarded \$163 million to 59 biofuel production projects

Fuel Type	Qualifying Proposals* Submitted	Funds Requested by Qualifying Proposals* (in Millions)	Awards Made	Funds Awarded (in Millions)
Gasoline Substitutes	25	\$58.8	15	\$32.1
Diesel Substitutes	56	\$162.2	23	\$68.3
Biomethane	45	\$139.5	21	\$62.7
Total	126	\$360.5	59	\$163.1