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Transportation Energy Demand Forecast

2019 IEPR Workshop on Transportation Energy Demand Forecast

Aniss Bahreinian
July 22, 2019
Transportation Energy Forecasting Unit
Demand Analysis Office
Energy Assessments Division
Transportation Energy Demand: Mid Case

Billions of Gasoline Gallon Equivalent

Year

Propane
Hydrogen
E85
Natural Gas
Electricity
Fossil Fuels
Gasoline Demand Forecast

![Graph showing gasoline demand forecast from 2019 to 2030. The graph includes three lines representing high, low, and mid forecasts. The y-axis represents billions of gallons, and the x-axis represents the years from 2019 to 2030.]
Transportation Gasoline Demand: Mid case

Billions Gallons

- truck
- Light Duty
Transportation Diesel Demand: Mid case
E85 Demand Forecast

California Energy Commission

Year
2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030
Millions Gallons
20 26 32 38 44 50 56 62
High
Low
Mid

Legend:
- Blue: High
- Orange: Low
- Gray: Mid
Transportation E85 Demand: Mid case

Millions Gallons

- truck
- Light Duty

2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030
Transportation Electricity Demand Forecast

![Chart showing transportation electricity demand forecast for years 2019 to 2030 with high, low, and mid scenarios. The chart plots GWh on the y-axis and years on the x-axis. The forecast shows a steady increase in demand across all scenarios.]
Transportation Electricity Demand: High case

GWh

- Other
- Light Duty
Transportation Electricity (GWh) Consumption: 2018, High Case

- Auto: 75.77%
- heavy rail: 11.99%
- light rail: 9.86%
- Bus: 1.16%
- nev: 0.81%
- truck: 0.29%
- cable car: 0.12%
- Other: 0.81%
Transportation Electricity (GWh) Consumption: 2030, High Case

91.12% Auto
3.30% heavy rail
2.40% light rail
1.98% Bus
0.99% truck
0.19% nev
0.02% cable car
Comparison of Transportation Electricity

Comparison of Transportation Electricity

2018

2030

75.77%

11.99%

9.86%

1.16%

0.29%

0.12%

0.81%

3.30%

2.40%

1.98%

91.12%

0.99%

0.02%

0.19%
Hydrogen Demand Forecast

Millions Kg

Year

2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030

High
Low
Mid
Transportation Hydrogen Demand: High case

Millions Kgs

- MDHD
- Light Duty

2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030
Propane Demand Forecast
Natural Gas Demand Forecast

The graph illustrates the forecasted natural gas demand in millions of gallons for various years from 2019 to 2030. The forecast includes high, low, and mid-range projections. The data shows an increasing trend in natural gas demand over the years, with the high projection consistently showing the highest demand, followed by the mid and low projections.
Transportation Natural Gas Demand: High case

- Light Duty
- MDHD

Millions Gallons

2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030
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