



FEDFLEET: FAST - FY 2020 Federal Fleet Dataset Overview

April 2021

Changing the World's Energy Future

Ron Stewart



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April 2021

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Federal Automotive Statistical Tool FY 2020 Federal Fleet Dataset Overview

FEDFLEET Quarterly Meeting ▪ April 2021

INL/MIS-21-62468

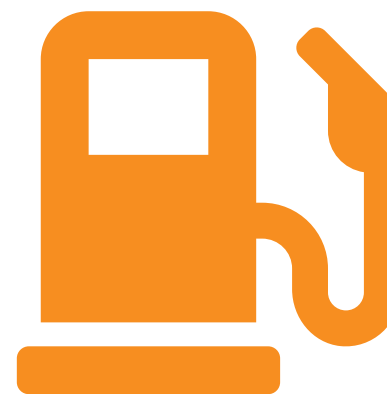
FY 2020 Federal Fleet Dataset: Overview



49 organizations



704K vehicles



1.1M fuel records

Source: Federal Automotive Statistical Tool, <https://fastweb.inl.gov/>

FY 2020 Federal Fleet Dataset: Overview



Inventory

658K

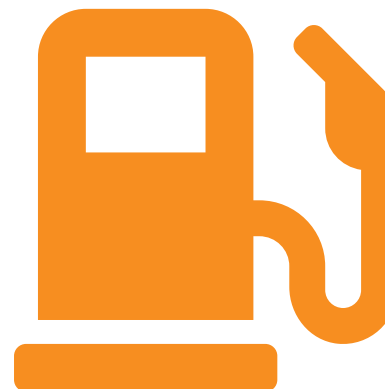
+1.9%



Miles

4.16B

-7.1%



Fuel

372M GGE

-3.8%



Cost

\$4.22B

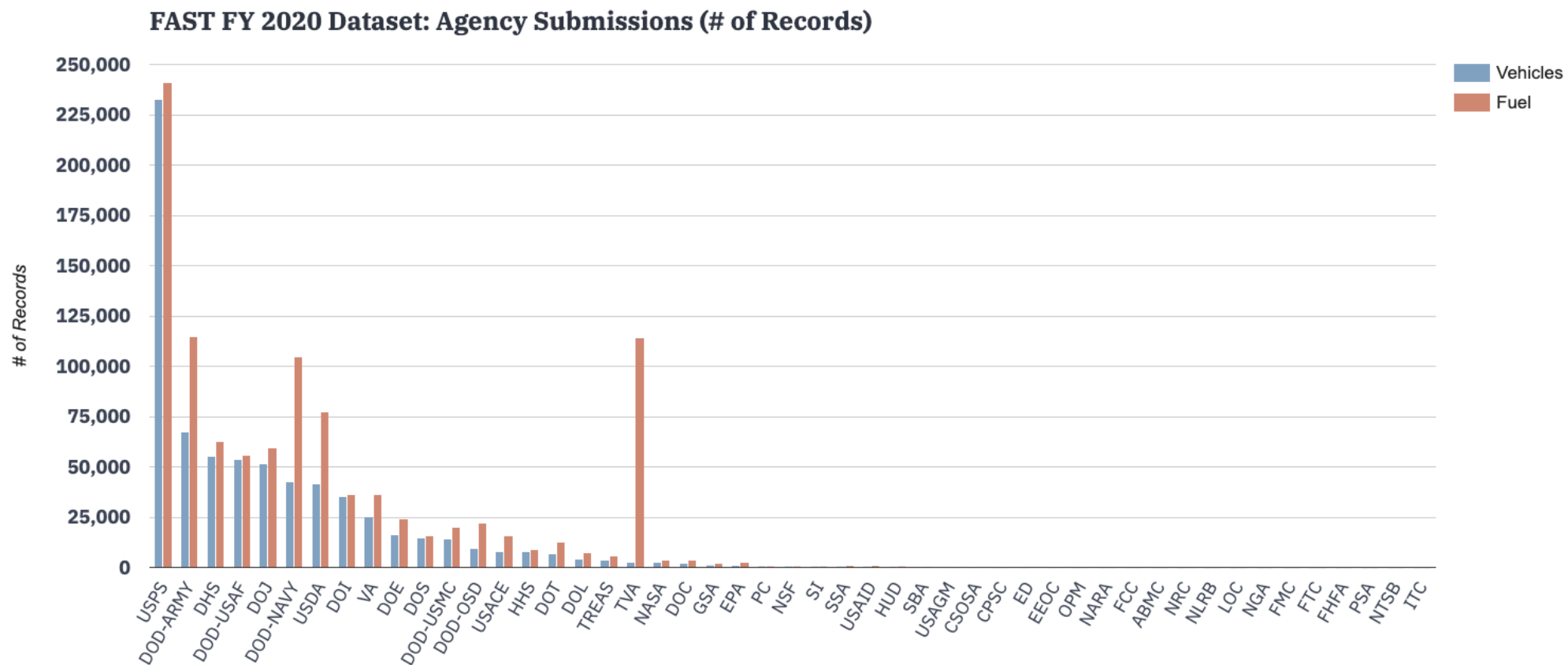
-3.4%



Source: Federal Automotive Statistical Tool, <https://fastweb.inl.gov/>
Cost figures include only operating costs (lease, maintenance, accident repair, fuel, indirect costs, depreciation) and do not include costs associated with vehicle acquisition or disposal

FY Federal 2020 Fleet Dataset: Overview

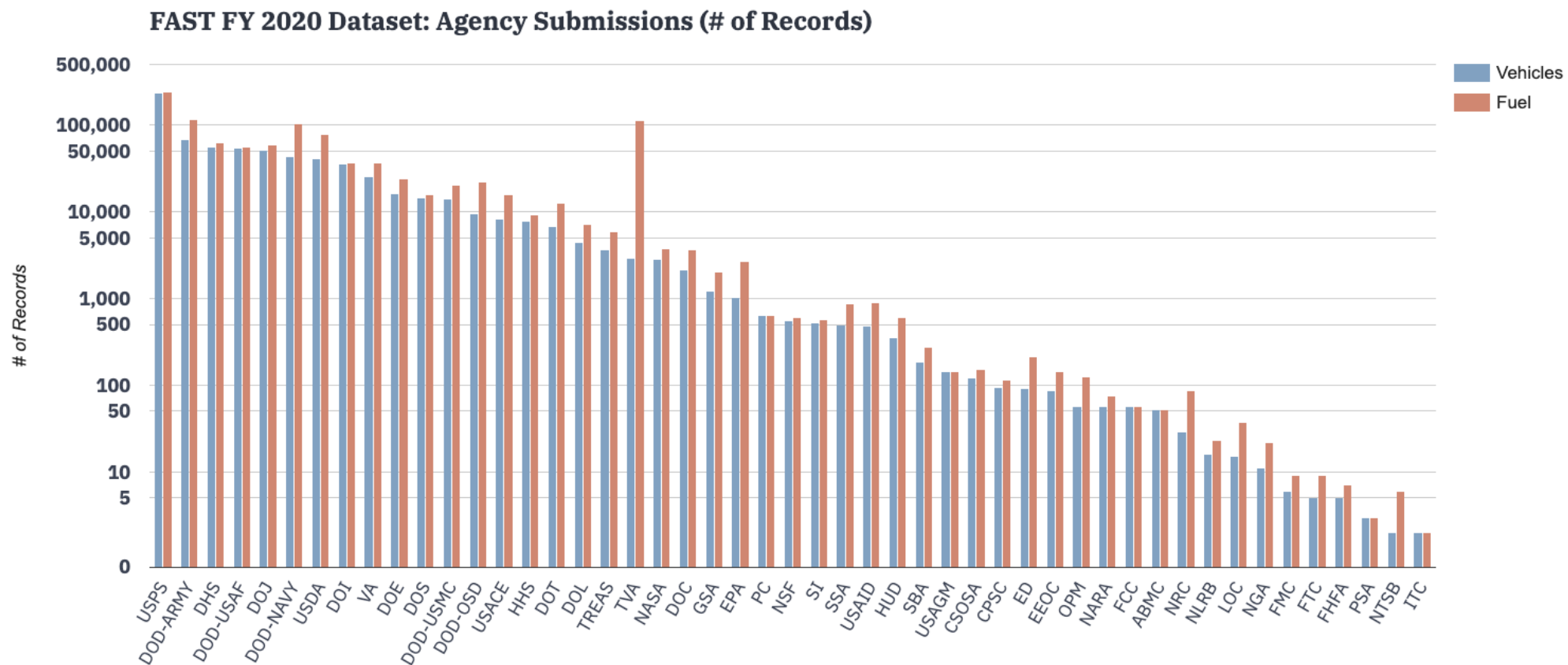
Agency Submissions



Source: Federal Automotive Statistical Tool, <https://fastweb.inl.gov/>

FY 2020 Federal Fleet Dataset: Overview

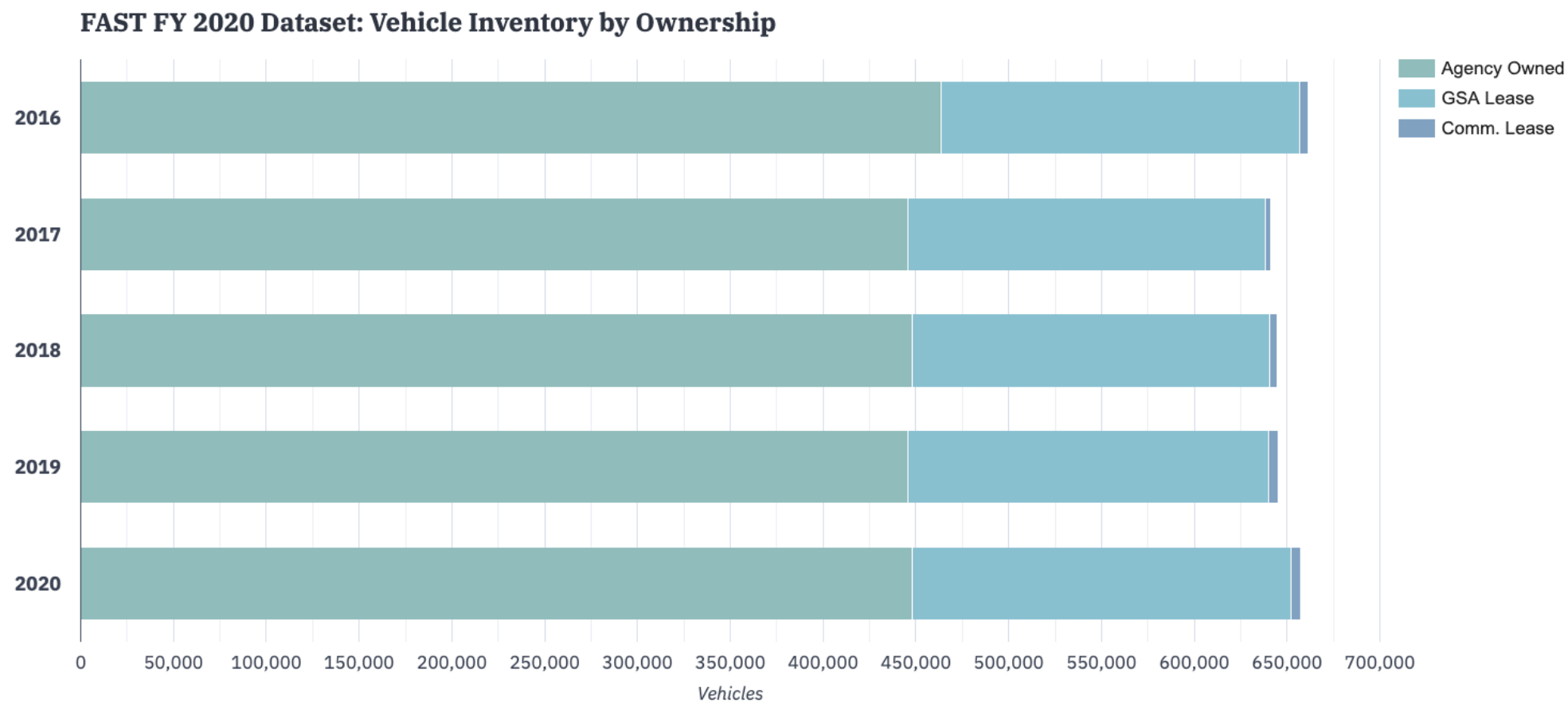
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FY 2020 Federal Fleet Dataset: 5-Year Trends

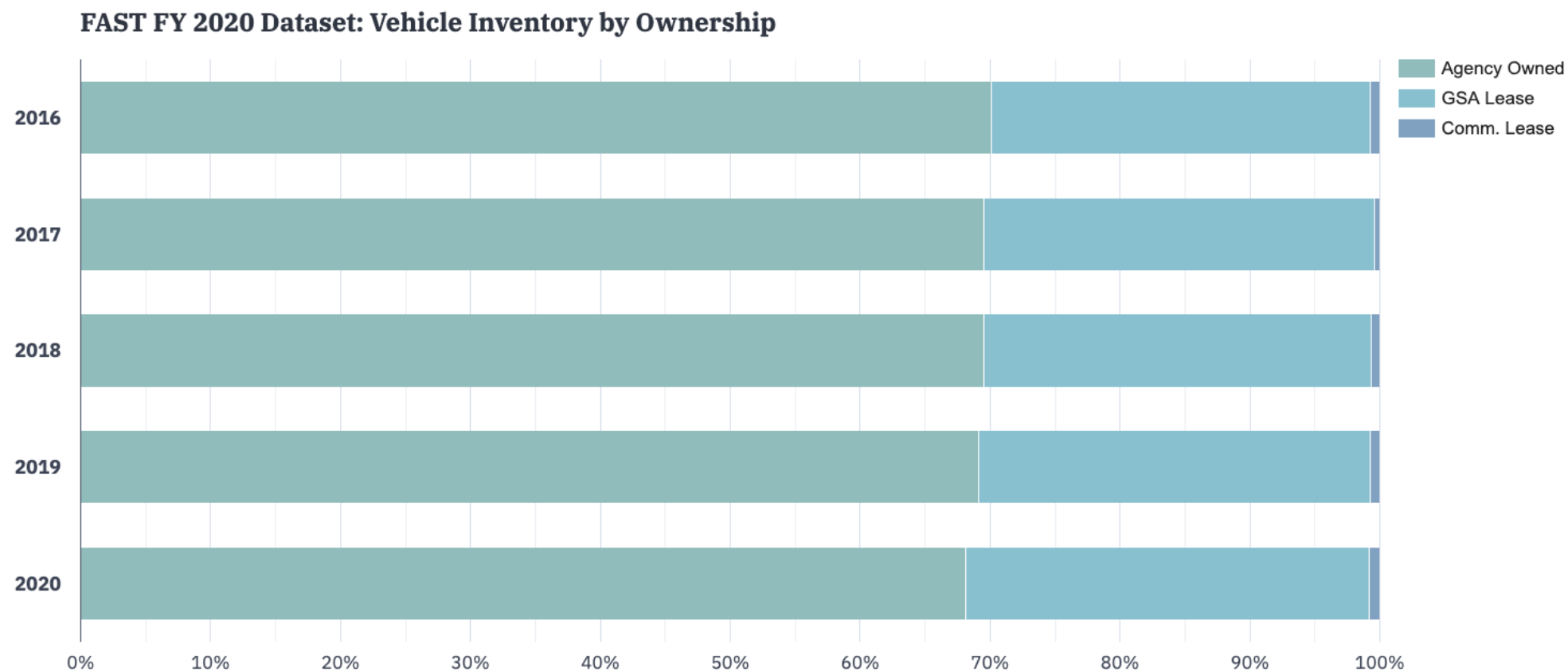
Vehicle Inventory



Source: Federal Automotive Statistical Tool, <https://fastweb.inl.gov/>

FY 2020 Federal Fleet Dataset: 5-Year Trends

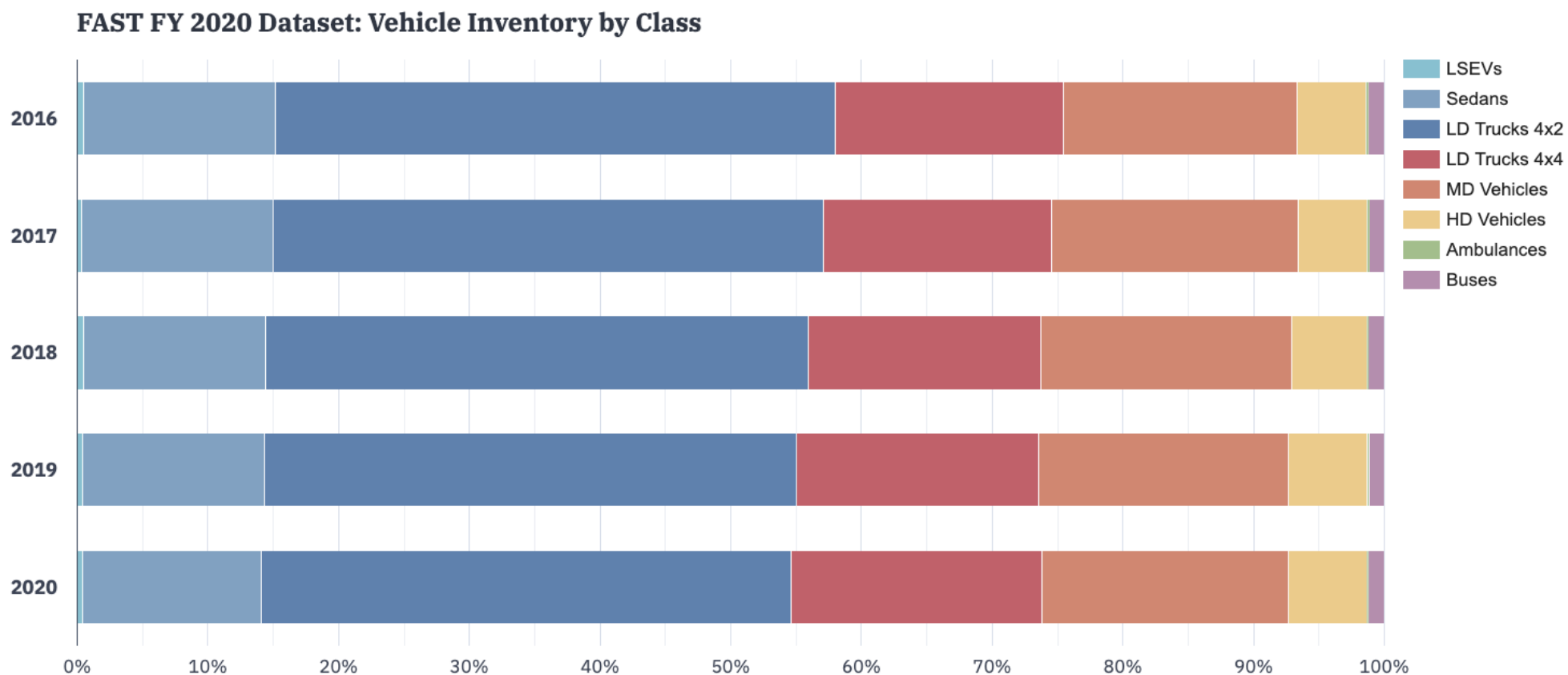
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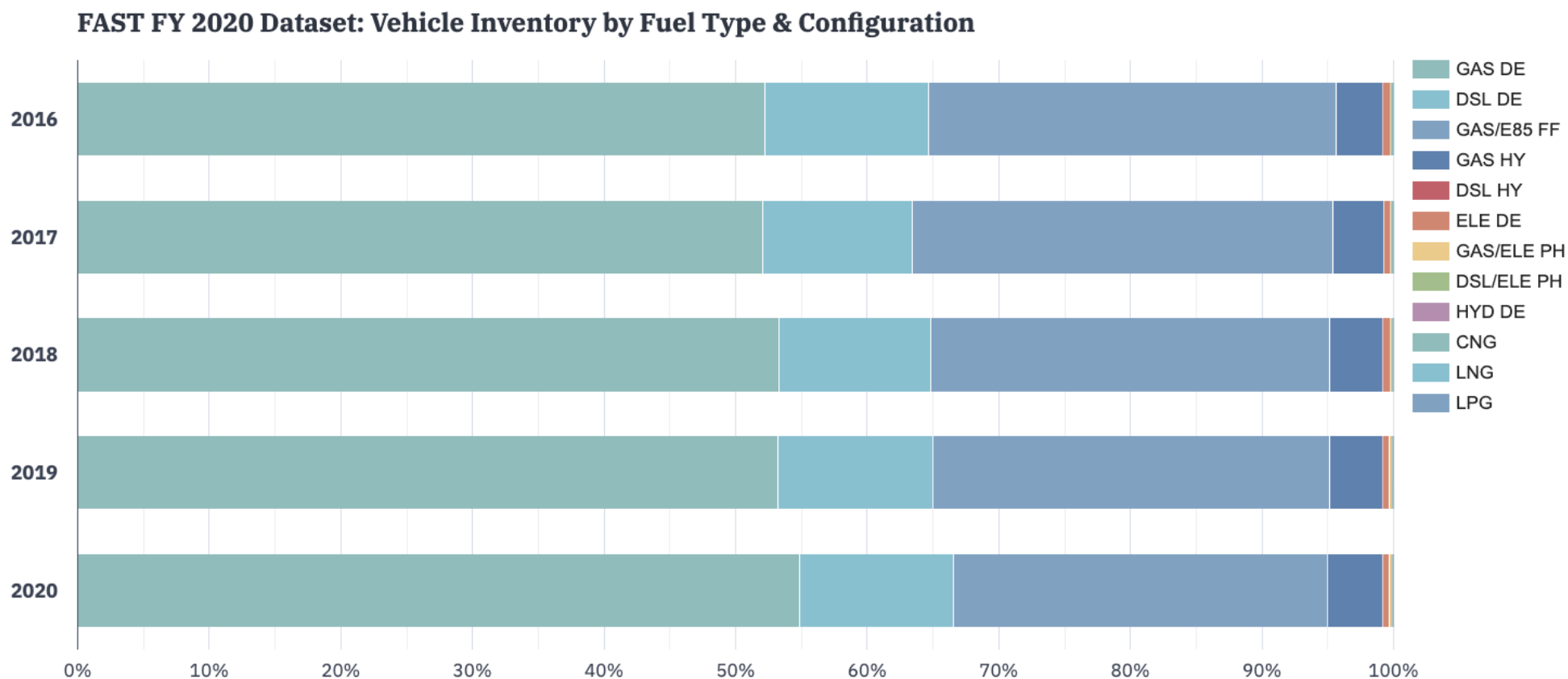
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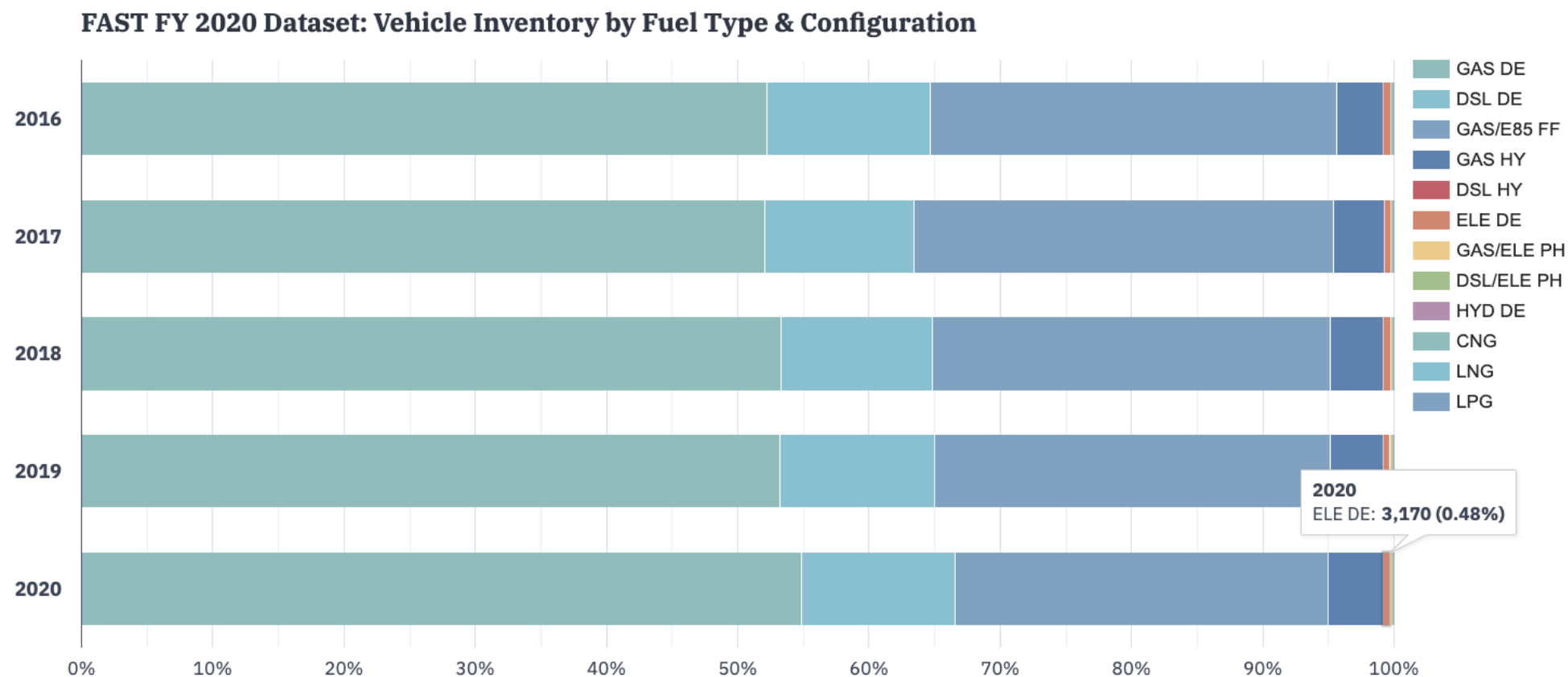
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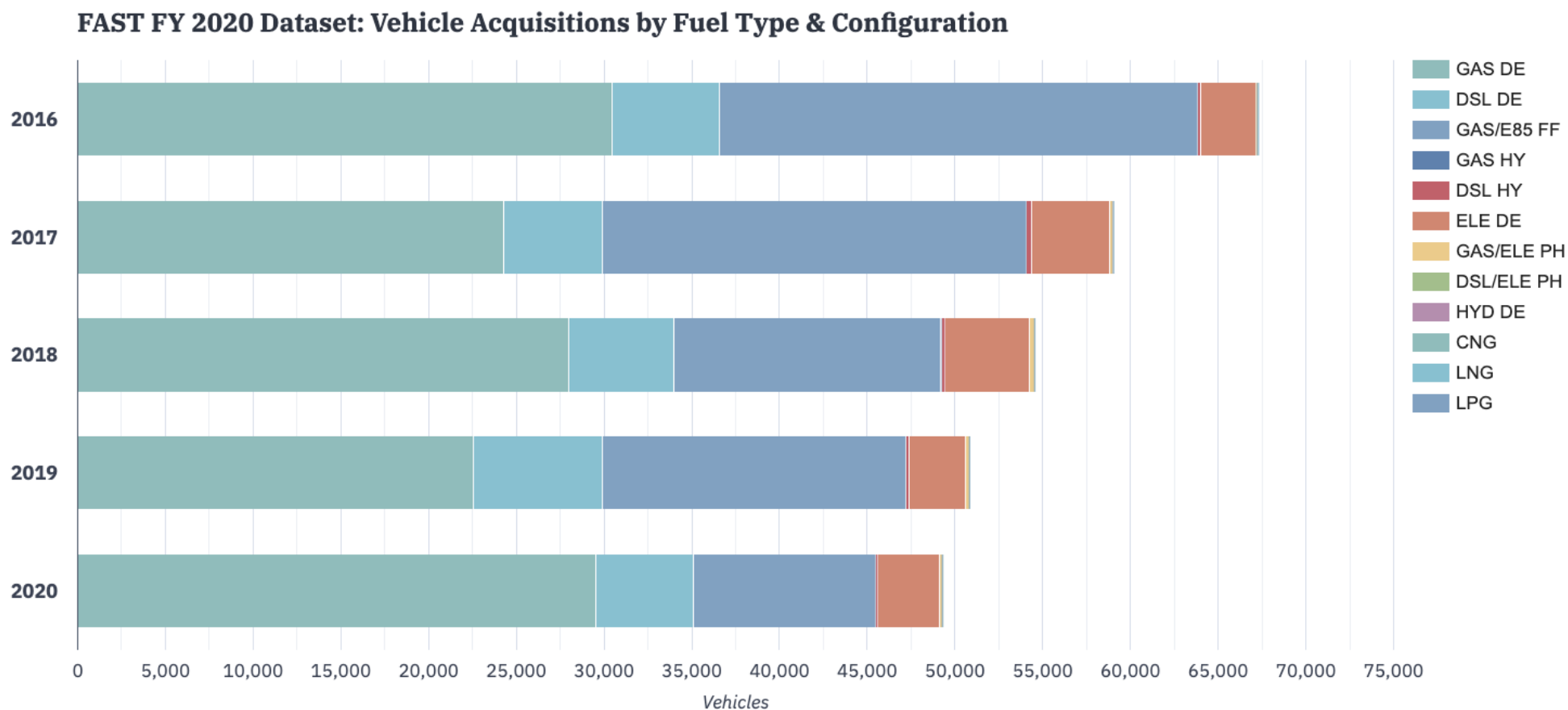
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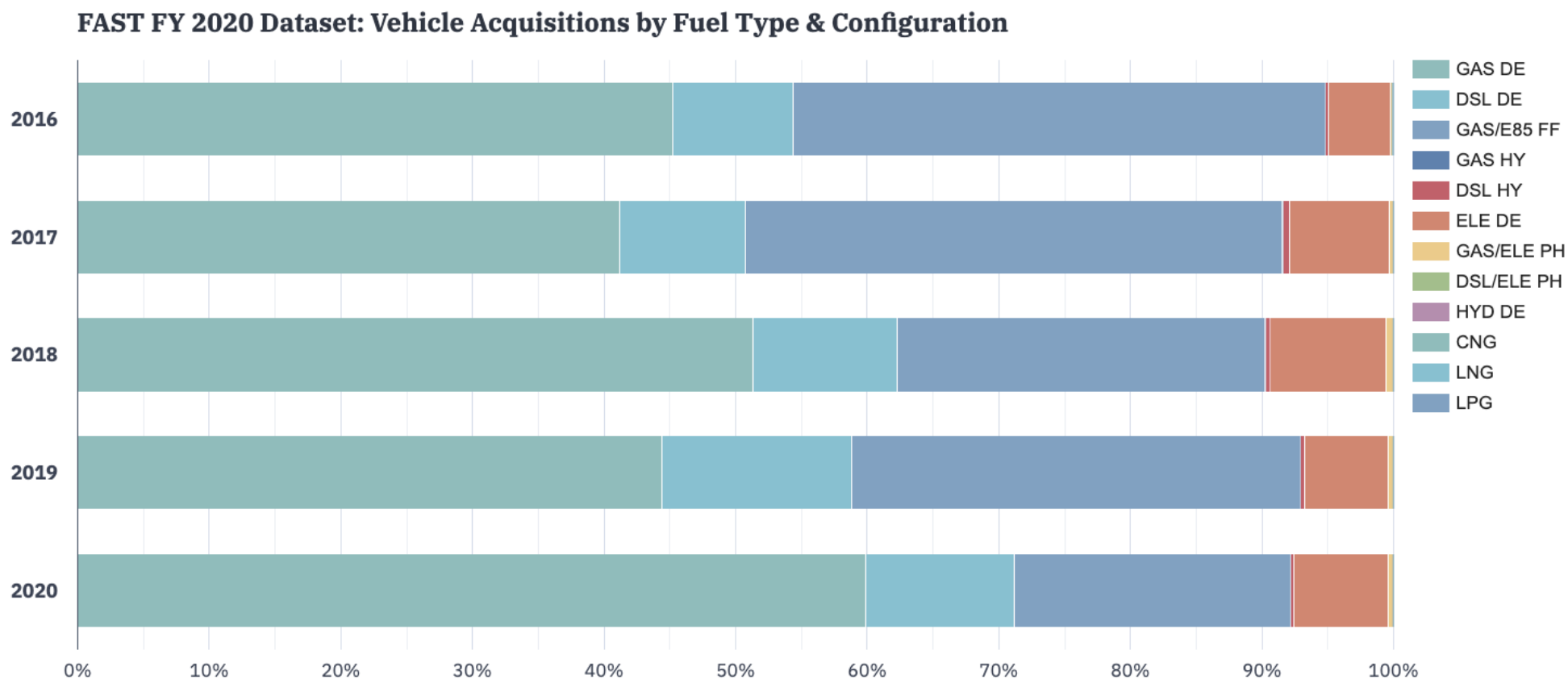
Vehicle Acquisitions



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FY 2020 Federal Fleet Dataset: 5-Year Trends

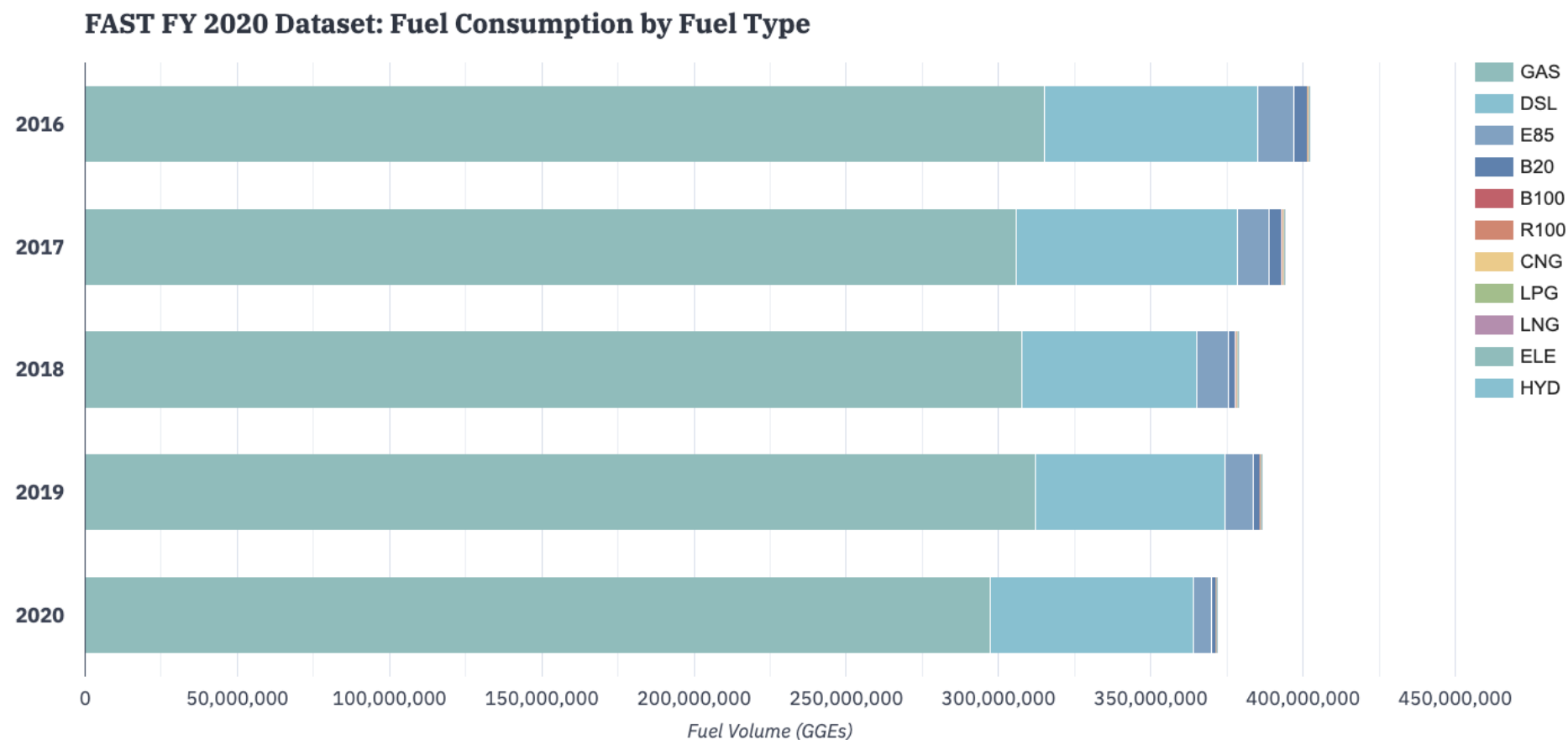
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FY 2020 Federal Fleet Dataset: 5-Year Trends

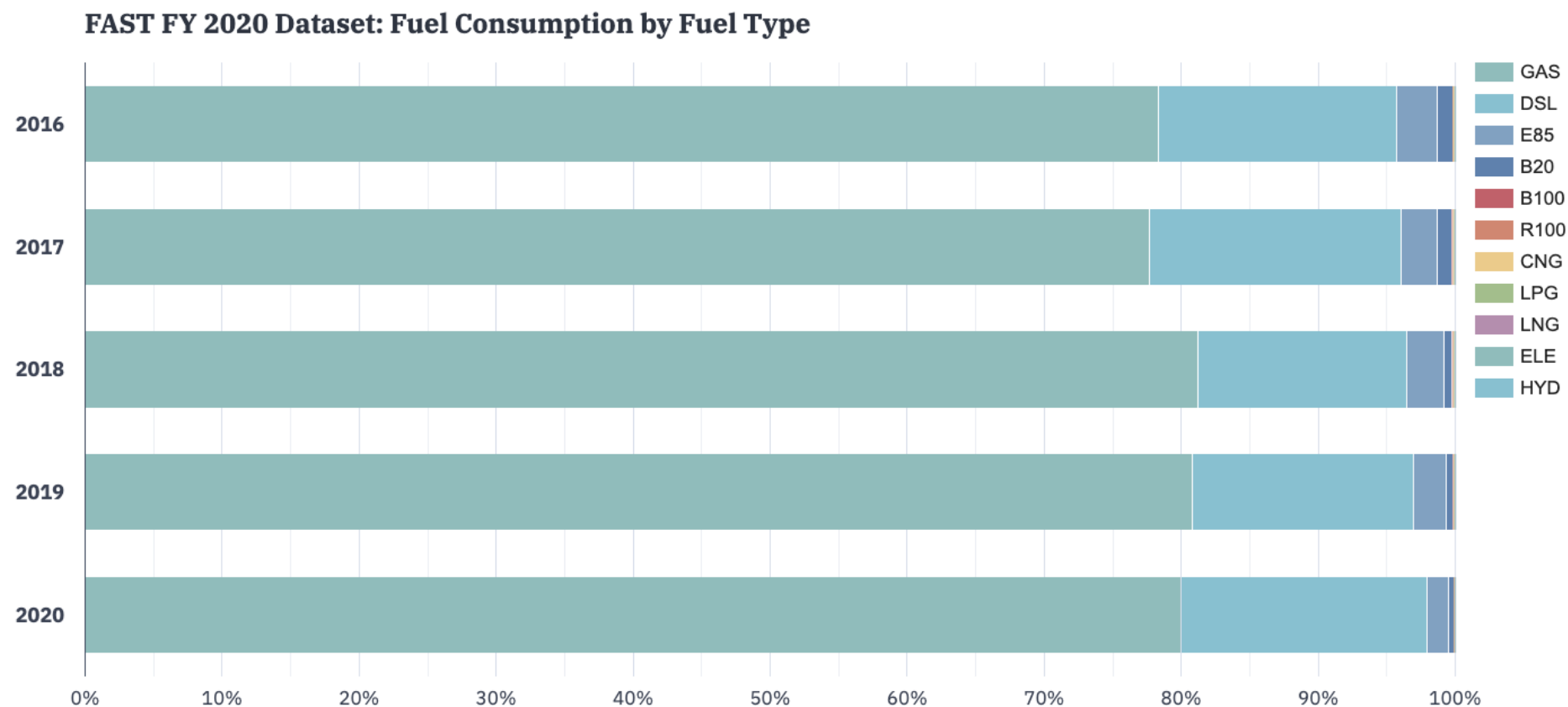
Fuel Consumption



Source: Federal Automotive Statistical Tool, <https://fastweb.inl.gov/>

FY 2020 Federal Fleet Dataset: 5-Year Trends

Fuel Consumption



Source: Federal Automotive Statistical Tool, <https://fastweb.inl.gov/>

FY 2020 Federal Fleet Dataset: Year-to-Year Comparison



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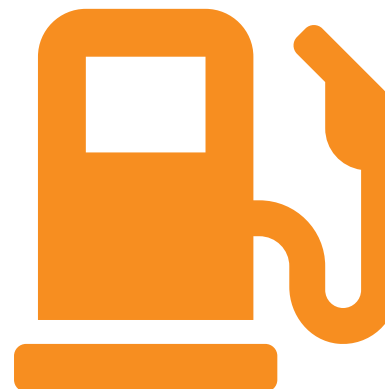
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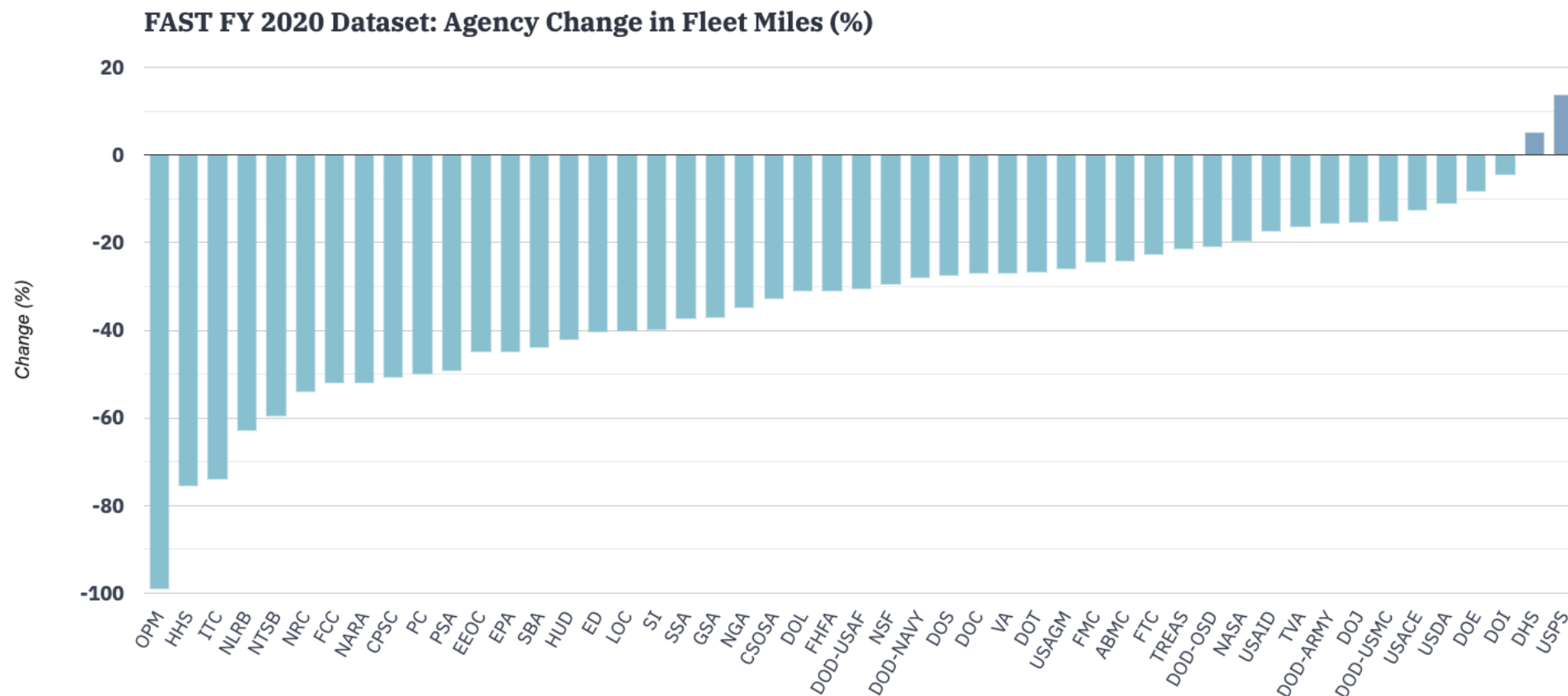
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FY 2020 Federal Fleet Dataset: Year-to-Year Comparison

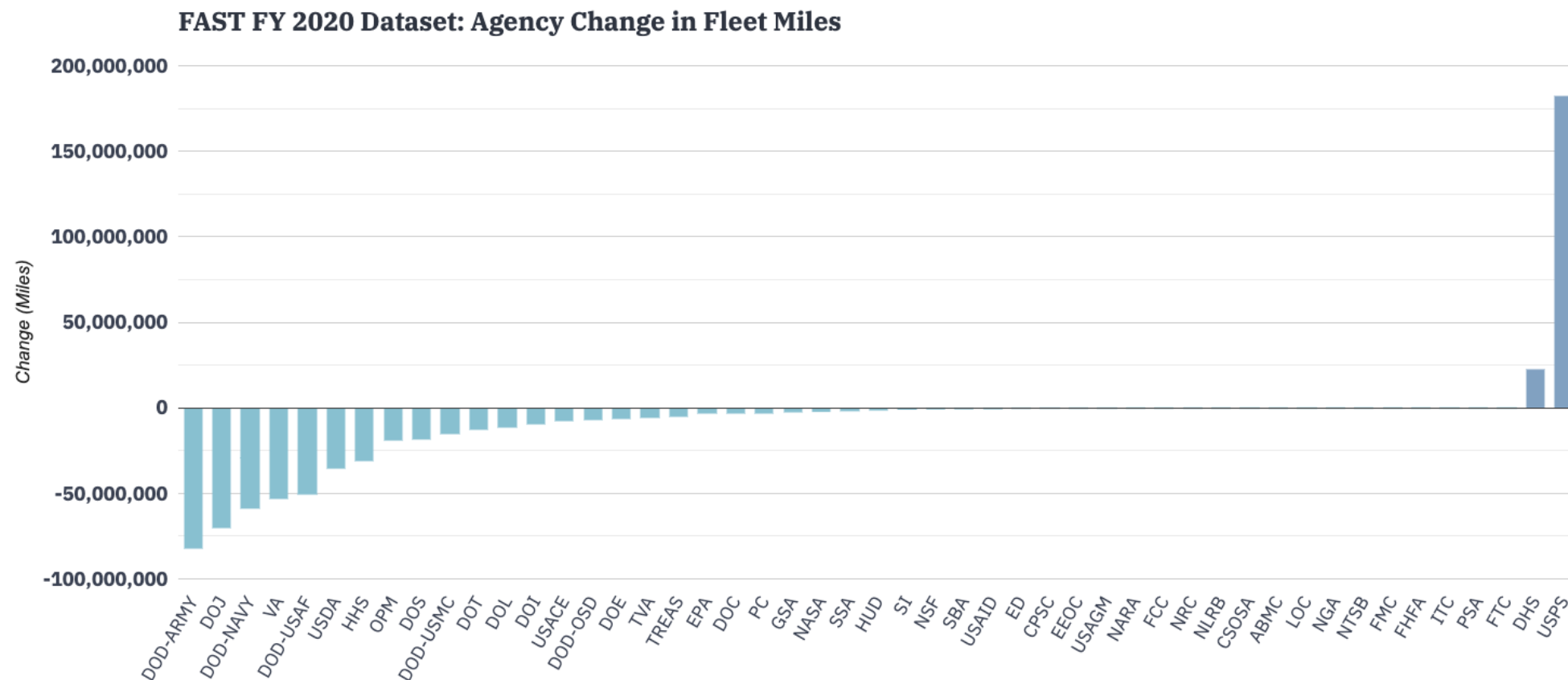
Changes in Fleet Miles



Source: Federal Automotive Statistical Tool, <https://fastweb.inl.gov/>

FY 2020 Federal Fleet Dataset: Year-to-Year Comparison

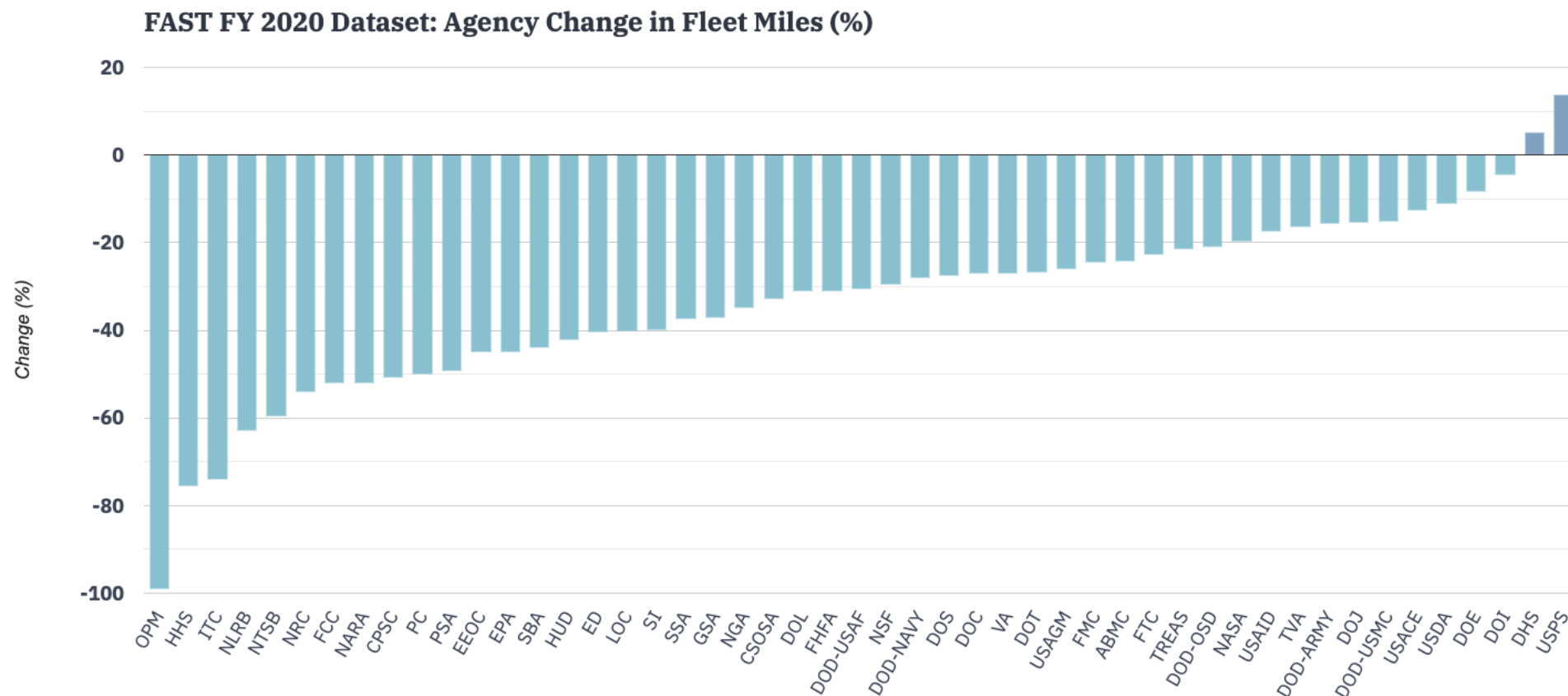
Changes in Fleet Miles



Source: Federal Automotive Statistical Tool, <https://fastweb.inl.gov/>

FY 2020 Federal Fleet Dataset: Year-to-Year Comparison

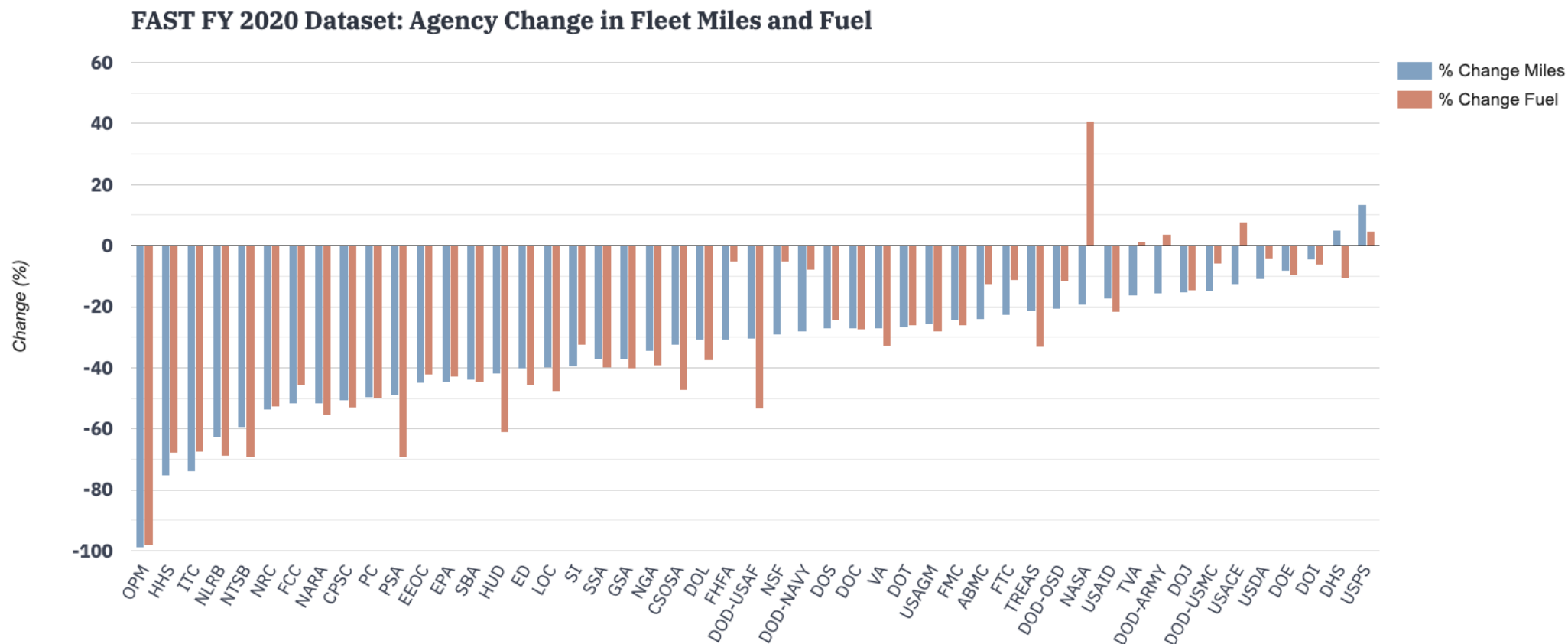
Changes in Fleet Miles



Source: Federal Automotive Statistical Tool, <https://fastweb.inl.gov/>

FY 2020 Federal Fleet Dataset: Year-to-Year Comparison

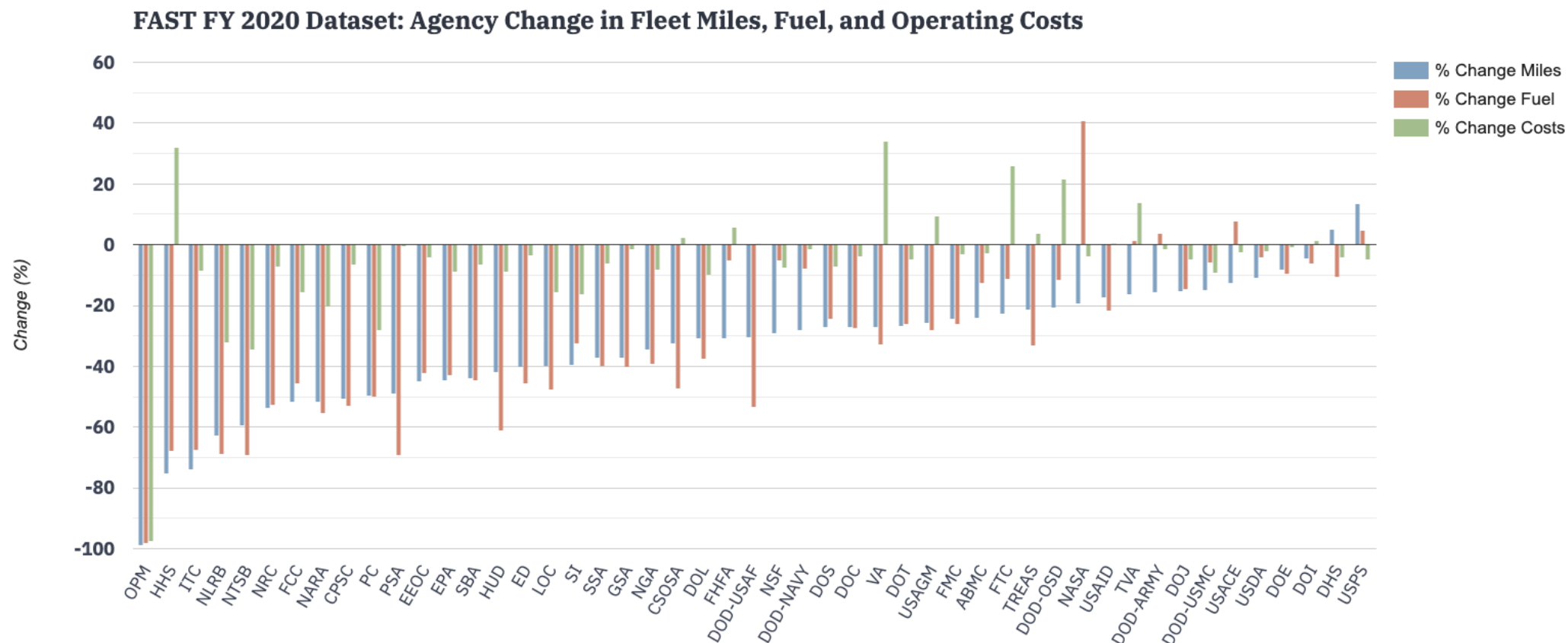
Changes in Fleet Miles and Fuel Consumption



Source: Federal Automotive Statistical Tool, <https://fastweb.inl.gov/>

FY 2020 Federal Fleet Dataset: Year-to-Year Comparison

Changes in Fleet Miles, Fuel Consumption, and Operating Costs



Source: Federal Automotive Statistical Tool, <https://fastweb.inl.gov/>

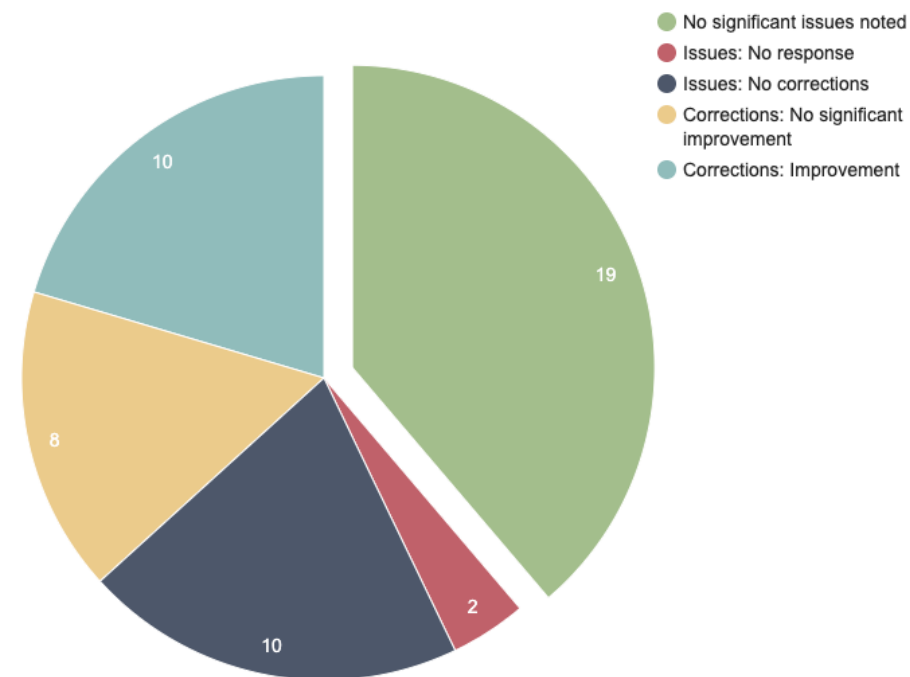
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FY 2020 Federal Fleet Dataset: Review and Corrections

Review Process and Results

- FAST management team reviewed agency submissions
- Written feedback provided to agencies (late January 2021)
- Agencies responded to any noted potential issues
- Agencies granted short period to submit corrections where feasible (due late February 2021)

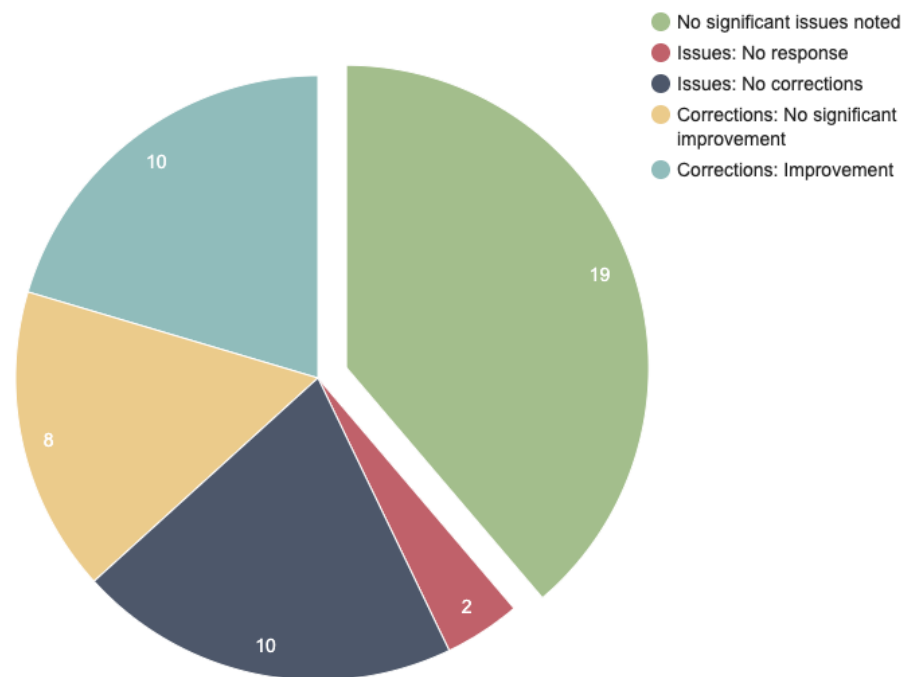
FAST FY 2020 Dataset: Dataset Review



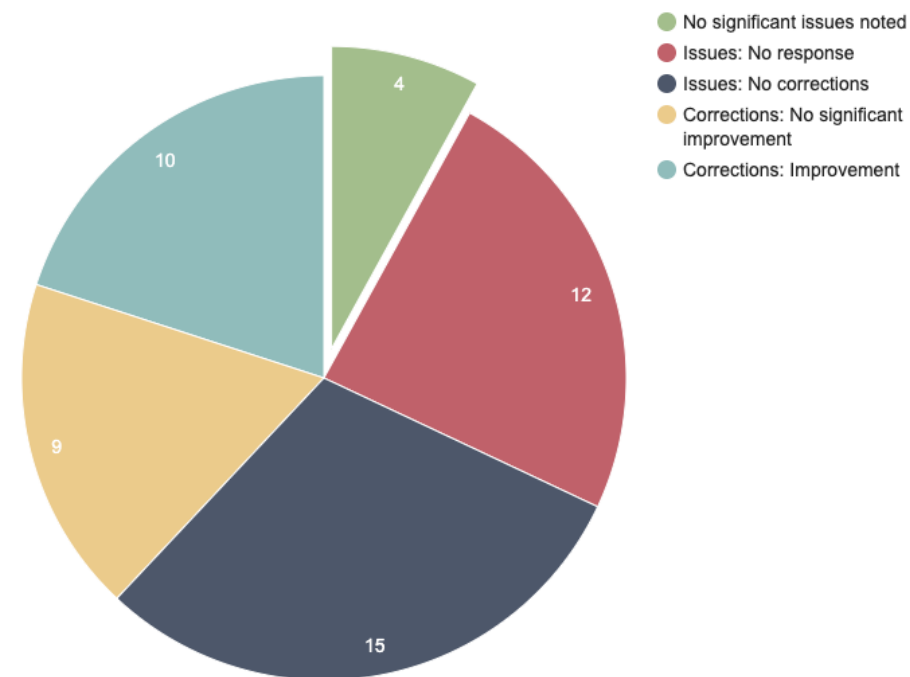
FY 2020 Federal Fleet Dataset: Review and Corrections

Comparing to FY 2019 Process

FAST FY 2020 Dataset: Dataset Review



FAST FY 2019 Dataset: Dataset Review



FY 2020 Federal Fleet Dataset: Review and Corrections

Impact of Agency Corrections

- **Review Measure 6: Invalid vehicle fuel efficiencies**
 - Agency corrections reduced issues by 19% (3,500 vehicles)
 - 5 agencies addressed over 80% of the identified vehicles in their submissions
- **Review Measure 7(d): Previously-reported vehicles missing**
 - 3 agencies reduced these by 15%, 36%, 100% (adding almost 200 vehicles)
- **Review Measure 8: Use of “placeholder” vehicle attributes**
 - 12 agencies reduced these:
 - Over 1,400 fewer vehicles with placeholders
 - Eliminated over 1,200 blocking placeholders, 700 flagging placeholders
 - 2 agencies eliminated over 70% of their placeholders

FY 2020 Federal Fleet Dataset: Quality

Is the Dataset Getting Better?

- **Yes? Larger group of agencies w/o significant issues**
 - 19 agencies in FY 2020 v. 4 in FY 2019
 - More agencies actively participating in the review / feedback / correction process
- **No? Agencies with issues had more issues**
 - For the dataset as a whole, more issues identified
 - Driven by challenges of FY 2020?
- **FAST team is working on developing a quality metric**
 - Enables comparing agencies, years, subsets of fleet, specific concerns
 - More information coming...

FAST: FY 2020 Federal Fleet Dataset Overview



Discussion

FAST Program Points of Contact

- **DOE Federal Energy Management Program**

- Jay Wrobel
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- **GSA Office of Government-wide Policy**

- James Vogelsinger
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- ✉
– Patrick McConnell
Patrick.McConnell@gsa.gov



- **FAST Support Team**

- ✉ FASTsupport@inl.gov
- 🐦 @FASTdevs

- **FAST**

- 🕒 <https://fastweb.inl.gov/>

- **FAST Help**

- ❓ <https://fastweb.inl.gov/help/>





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