

Administration and Finance - 2020

PARKING AND TRANSPORTATION ASSESSMENT PLAN

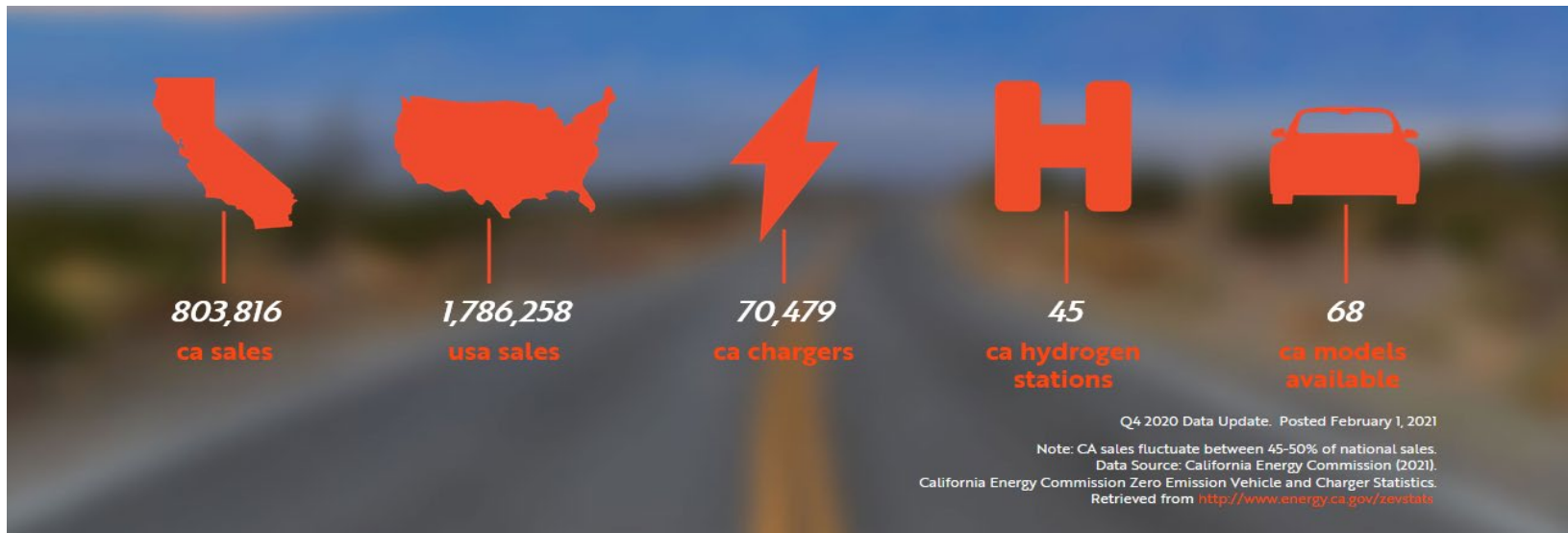


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CSUSB's Electric Vehicle Charging Program Assessment

■ Background

- Sept. 2020 CA Governor EO -All new passenger vehicle and truck sales to be electric by 2035
- Exponential US EV sales- topping 1 Million in 2018
- Infrastructure support crucial for the attainment of this goal.



CSUSB's Electric Vehicle Charging Program Assessment

■ Assessment Purpose

- To determine if the current EV Charging Infrastructure is adequate to meet the post pandemic campus demand.
- Review CSUSB's EV Charging program and identify any unmet user needs.
- Identify industry best practice and implement this where appropriate.



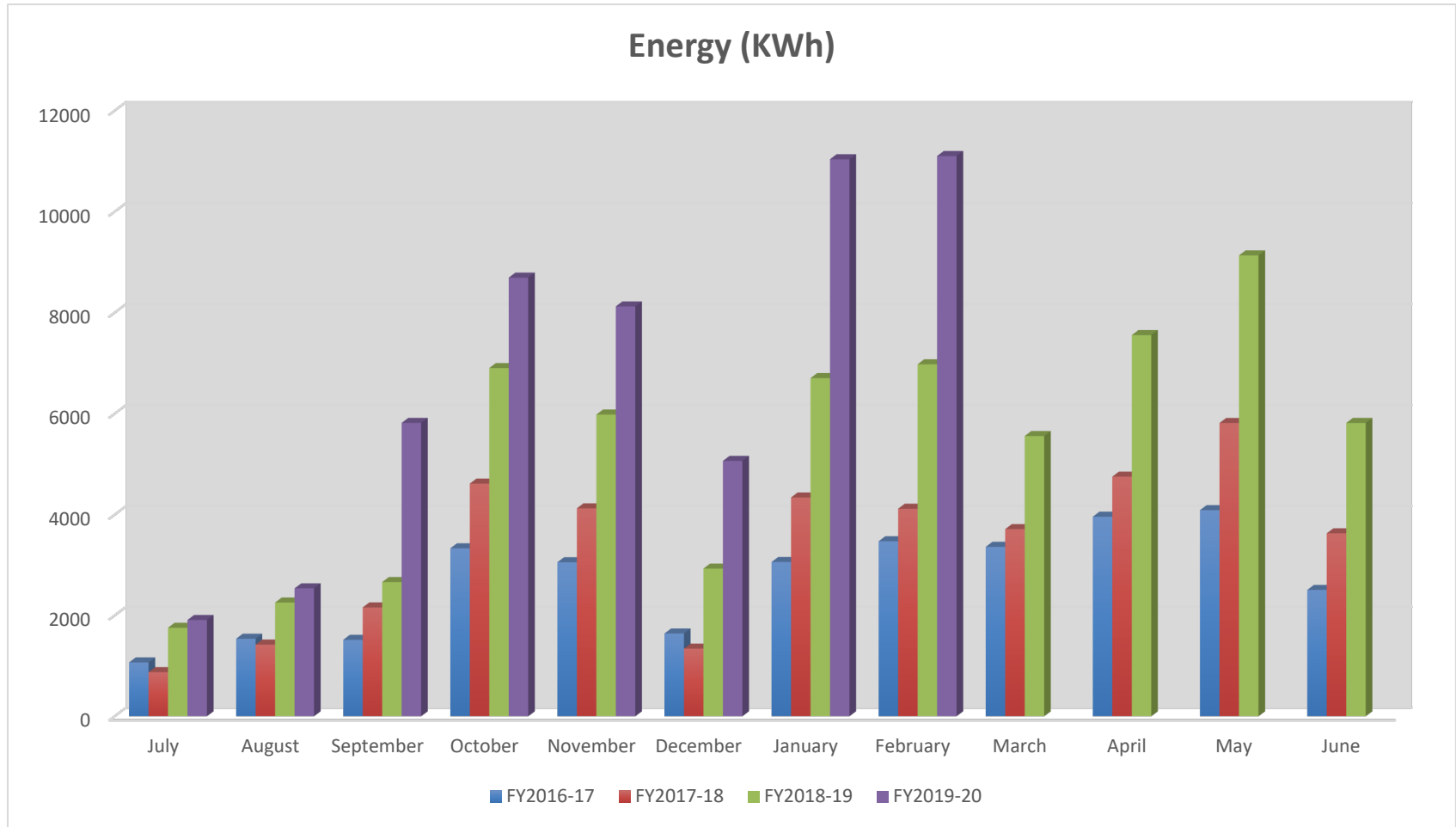
CSUSB's Electric Vehicle Charging Program Assessment

■ Assessment Methodology

- Reviewed data from the ChargePoint dashboard. FY2016-2020 Data.
- Performed scenario analysis and forecasting utilizing the collected data.
- Surveyed current EV Charging Station Users

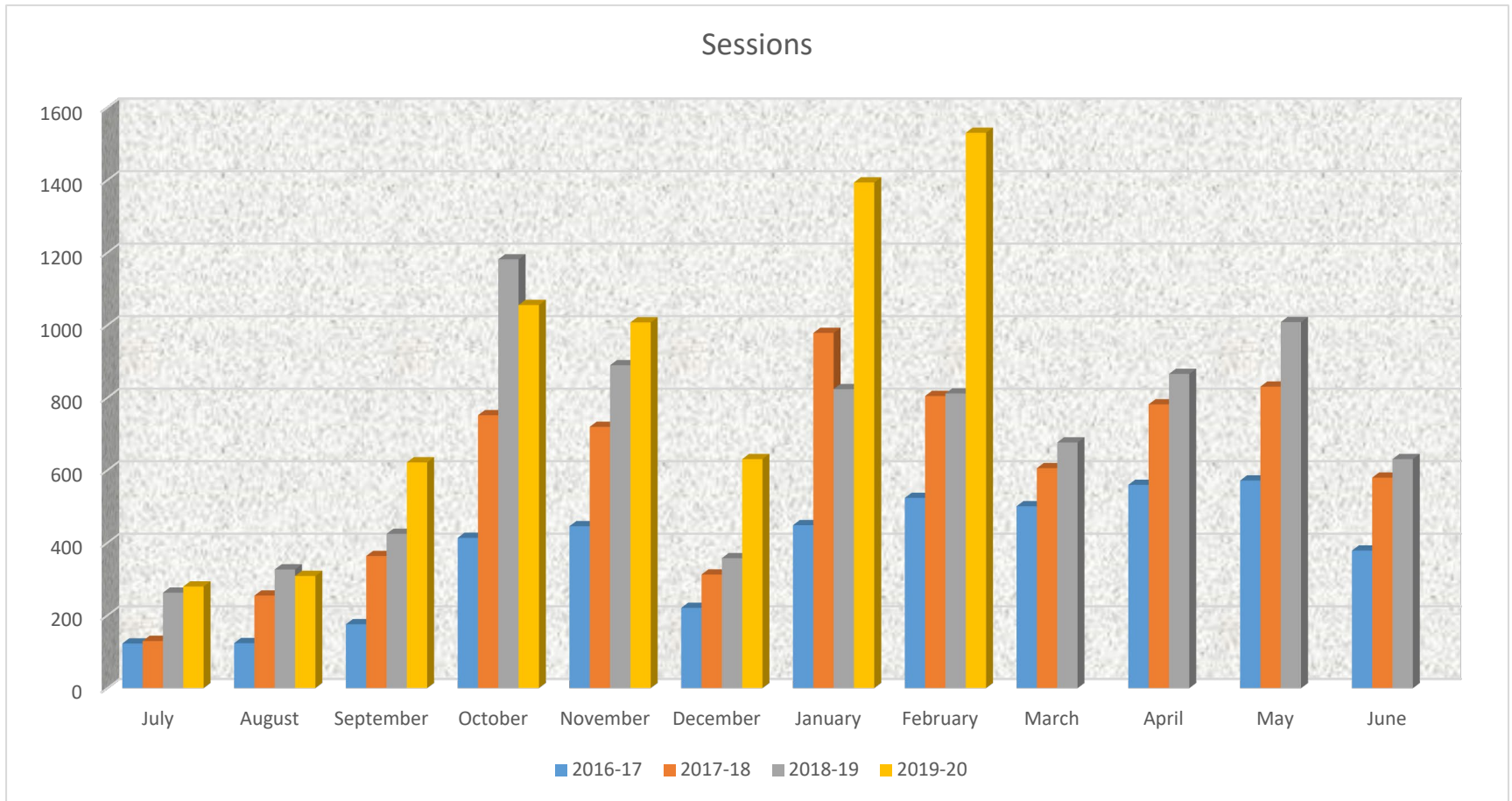
Assessment Data

■ Energy Utilization



Assessment Data

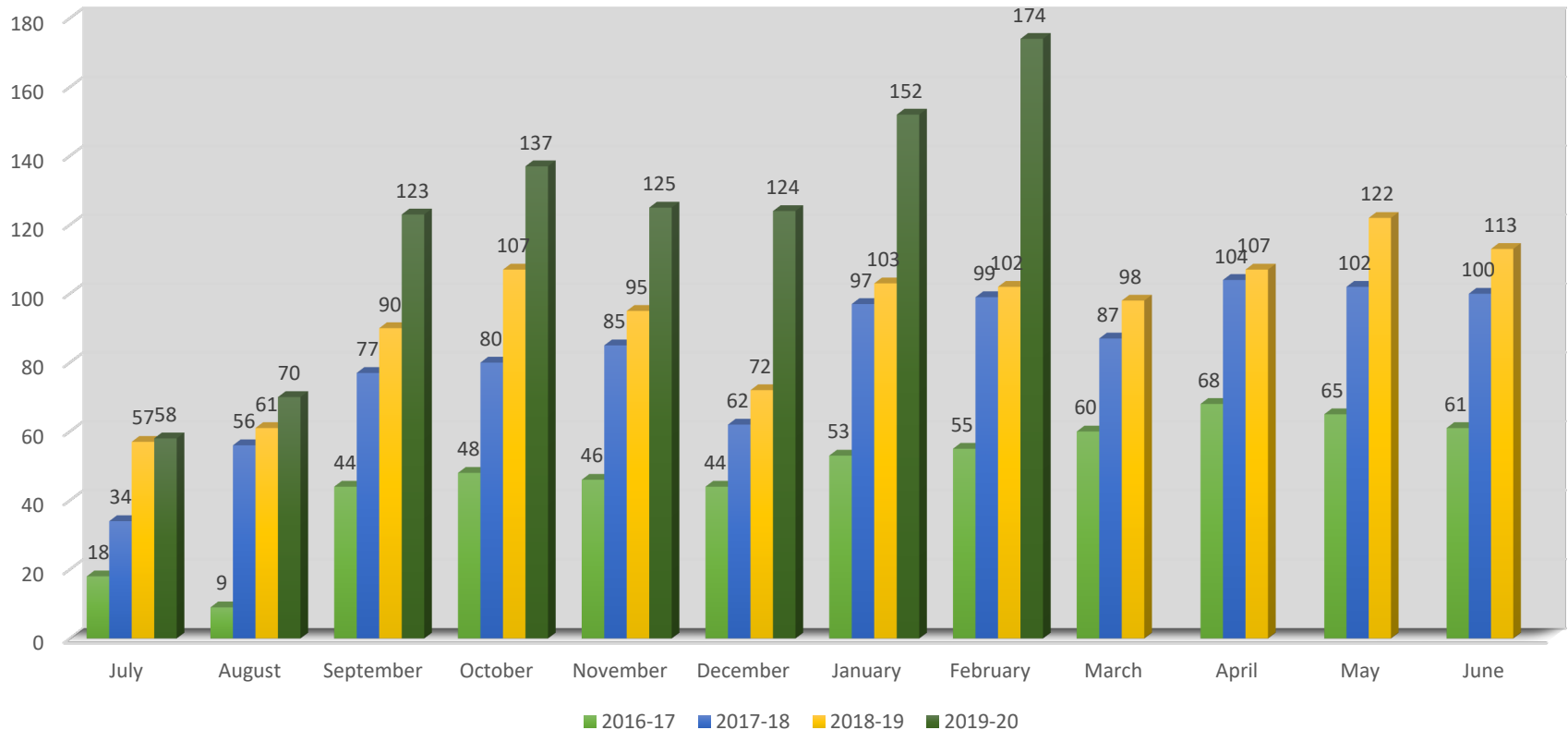
■ Total Number of Charging Sessions



Assessment Data

■ Unique drivers accessing charging machines

Unique Drivers

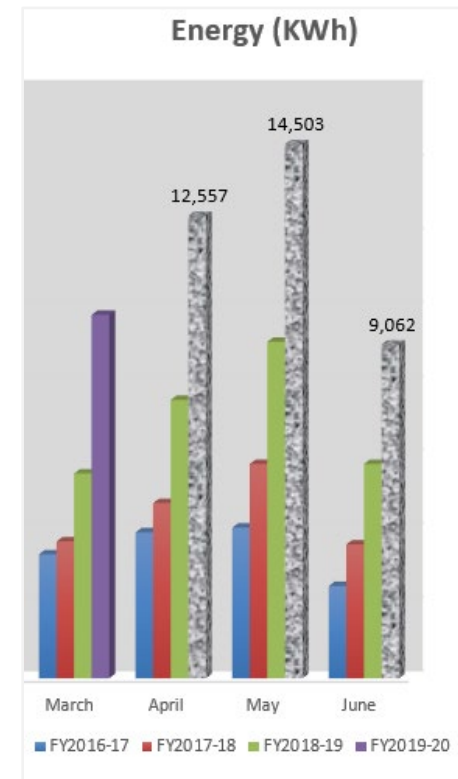
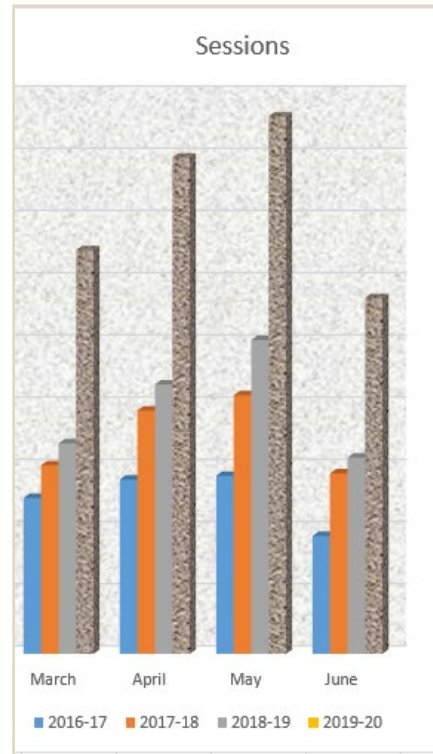
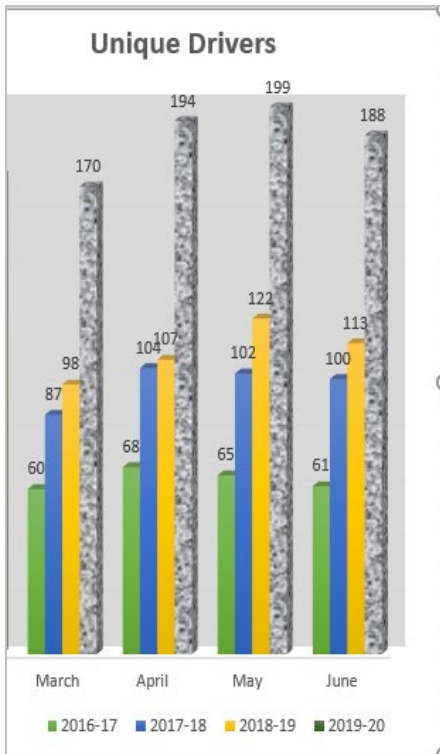


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Assessment Data

Forecasted Mar-June



Assessment Findings

■ Average month on month increase

- Unique users –53% peaking Feb 20
- Sessions –108% increase
- Energy usage – 44% peaking Feb 20 ;

■ Survey findings

- Overall satisfaction among users is high. 7.5/10
- Rank best aspects of the CSUSB EV Program
 - No extra charge for this service - 1
 - Reliable Machines – 4
- Maximum allowable time

CSUSB's Electric Vehicle Charging Program Assessment

■ Implications for Practice

- Engage a proactive machine maintenance strategy. Machines that self analyze.
- Follow up survey to a wider group of EV Drivers -student population.
- Consider introducing DC Fast chargers to complement existing Level 2 chargers.
- Pursue various grant funding sources for additional machines
- Review the current max. allowable time
 - Hourly premium rate after the 4hr max.