

San Diego

AIRPORT PARKING CO.



SDAP's 'HERO TO ZERO' BEGAN IN 2015, TODAY SDAP'S 100% ZERO EMISSION.

SDAP's a parking facility serving SAN Airport since 1991 and averages 20,000 monthly miles. California mandated airport shuttle fleet operations to transition to battery electric vehicles (BEV).

SDAP began adopting EV's in 2015 taking advantage of the subsidies. Today SDAP is 100% Zero Emission. All EV shuttles and Infrastructure have been supported by funding programs available to early adopters. In 2015, SDAP had operated the first Airport EV bus in USA, by 2016 SDAP had 3 EV's¹ which comprised of 50% of SDAP's fleet. As of November 2016, the EV's experienced issues rendering them non-operational 2017-2019. SDAP re-powered its non-operational BEV's. In 2020, the repowers were completed. SDAP procured it's 2nd generation of GreenPower EV shuttles² and installed two DC chargers for its fleet.

DCFC allows a successful EV operation when driving an average of 200 miles daily on each shuttle³. DCFC reduces charging time while maintaining 50% State of Charge.

SDAP advocates for funding, policies and EV rates while representing small fleets that need to transition. SDAP is a party at the California Public Utilities Commission proceedings to address EV rates. SDAP was awarded a site host for its fleet under a pilot project⁴. SDAP was also awarded a charging pilot project for customer cars.

SDAP's CPUC participation aims to address the barriers created from EV Charging equipment. SDAP recommended changes to address demand charges in small commercial rates and won a waiver to exempt demand fees.⁵

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SDAP is a party in the current proceeding requesting an extension of this waiver which ended 8-2020. The new decision⁶ reinstates this waiver. Demand charges create increased barriers on fleets with less miles traveled resulting in potentially larger increases in the cost per mile for smaller size fleets.

Despite SDAP's EV challenges in November 2016; SDAP had collected valuable data during its first EV fleet deployment that demonstrated big operational savings. This influenced SDAP to continue to forge forward. SDAP's mission in 2017 was to take advantage of the funding programs and to successfully transition 100% by 2021. SDAP achieved this and finds the EV savings substantially beneficial --- which could not be possible without early adoption. SDAP's operated 310,000 EV miles, achieving 50% reduced emissions & 50% operational cost savings.

Footnotes:

1. "2" years before Wally Park's LAX deployment.
2. Active 8-2019:
<https://greenpowermotor.com/gp-products/ev-star/>
3. 2020 use case of GreenPower shuttle performance. EV's achieved 75% of 2020 miles, starting SOC is 100%, ending SOC is 50%, 5500 monthly EV miles per shuttle:
<https://drive.google.com/file/d/1U5uzRM-qGiUy-t-5ysGdGXEMYOGU1V8/view?usp=sharing>
4. Decision D.18-01-024, final pilot report. SDAP's data pp 54-77. Excerpt of SDAP data:
<https://drive.google.com/file/d/15o6uN7cyMP5kL40SO6qN-OTQjVlzaV1XL/view?usp=sharing>
This project Installed two fleet DC fast chargers, new meter, phase 3 transformer, signage, all make-ready.
<https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M222/K742/222742053.PDF>
See Decision D.18-18-009, it finds SDAP has made substantial contributions to the Decision.

5. See Decision D.17-08-030, Ordering Paragraph 37. Also p. 62, it states EV's are critical to climate goals agreeing with SDAP that a relief from demand charges is needed. CPUC directed SDG&E to offer an exemption. <https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M194/K599/194599448.PDF>

6. See Decision 21-07-010 finds SDGE has not provided an EV rate for small commercial, the Decision reinstates the waiver. See pp 68-75: <https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M393/K302/393302635.PDF>

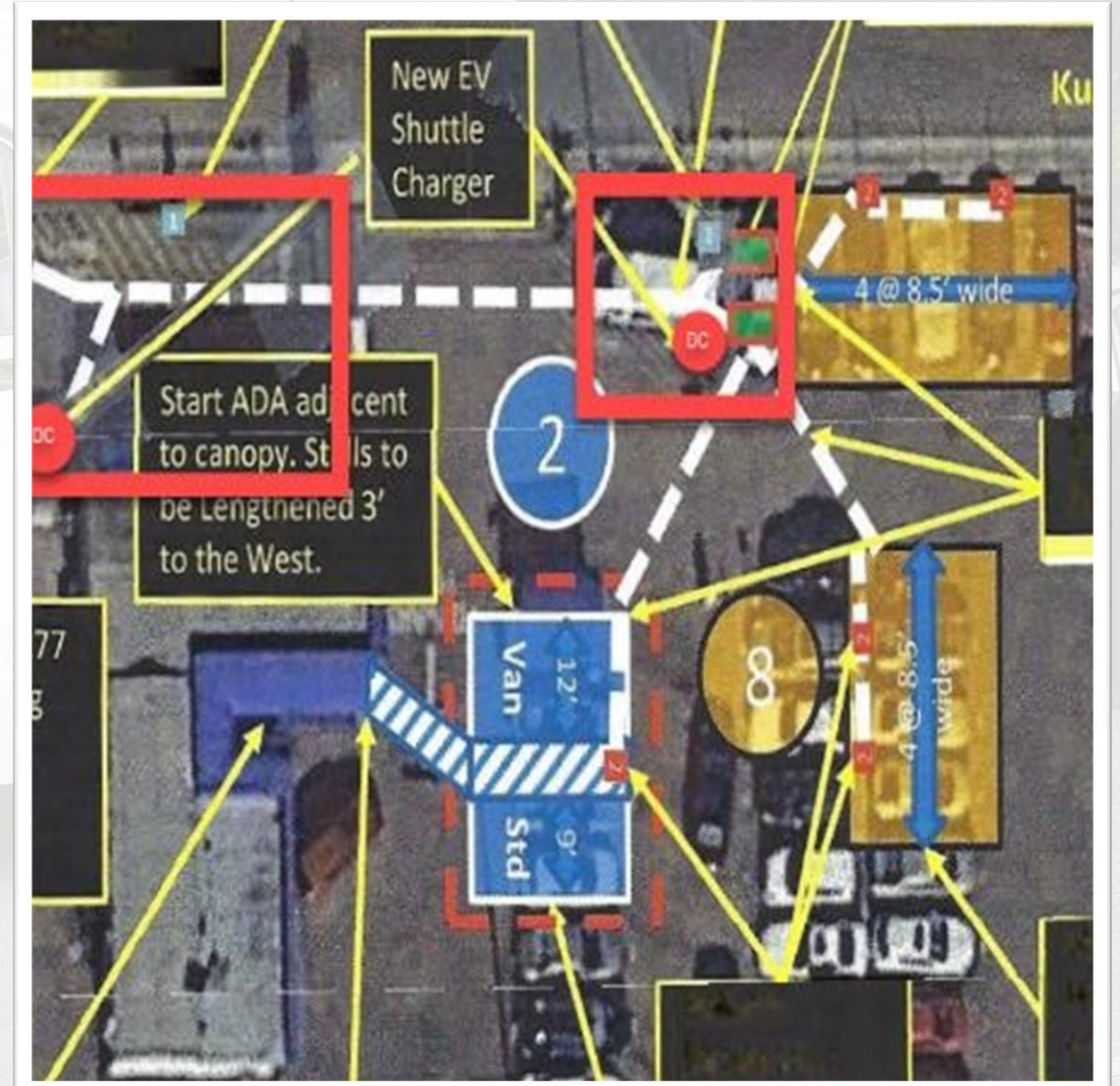
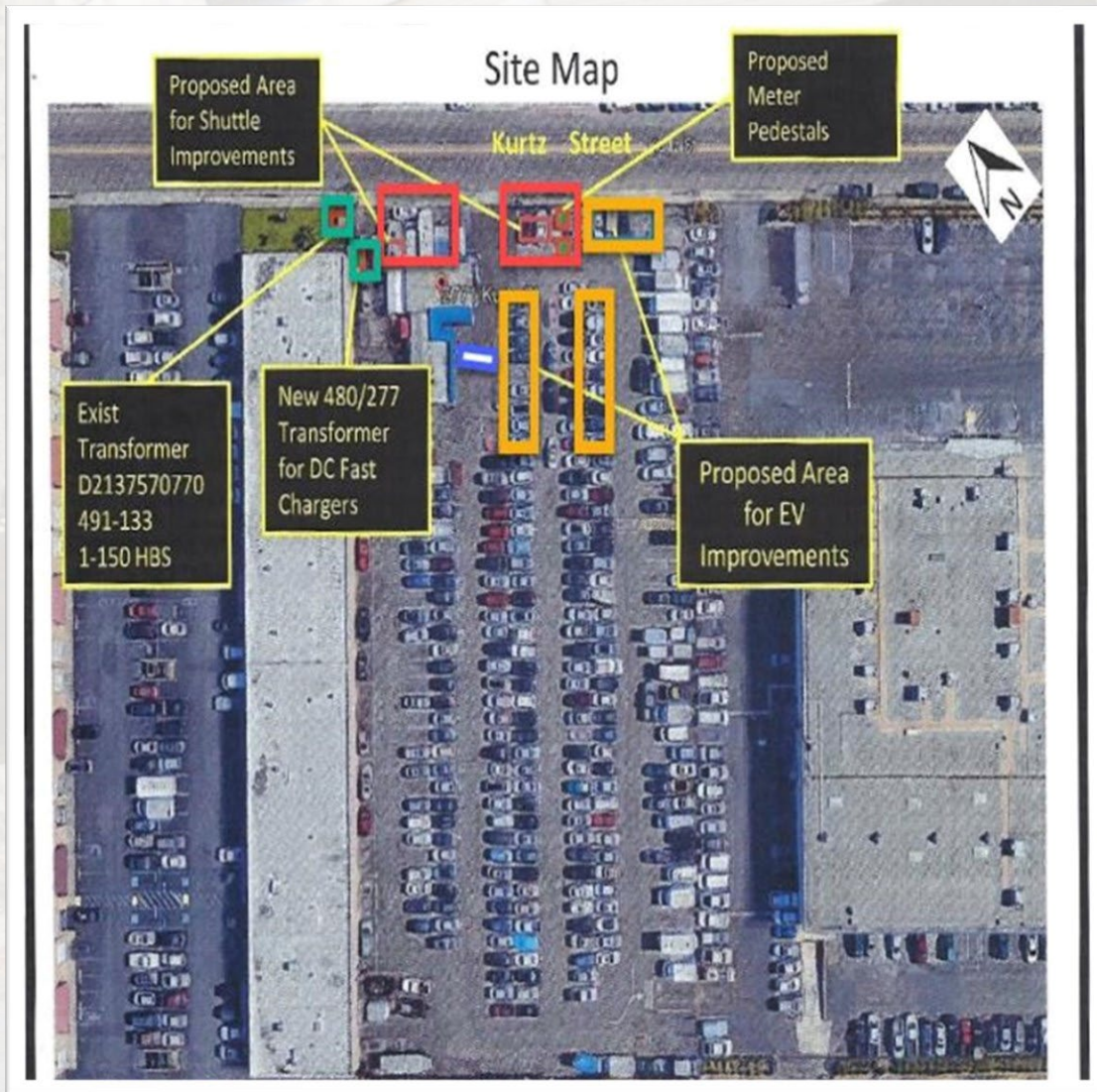
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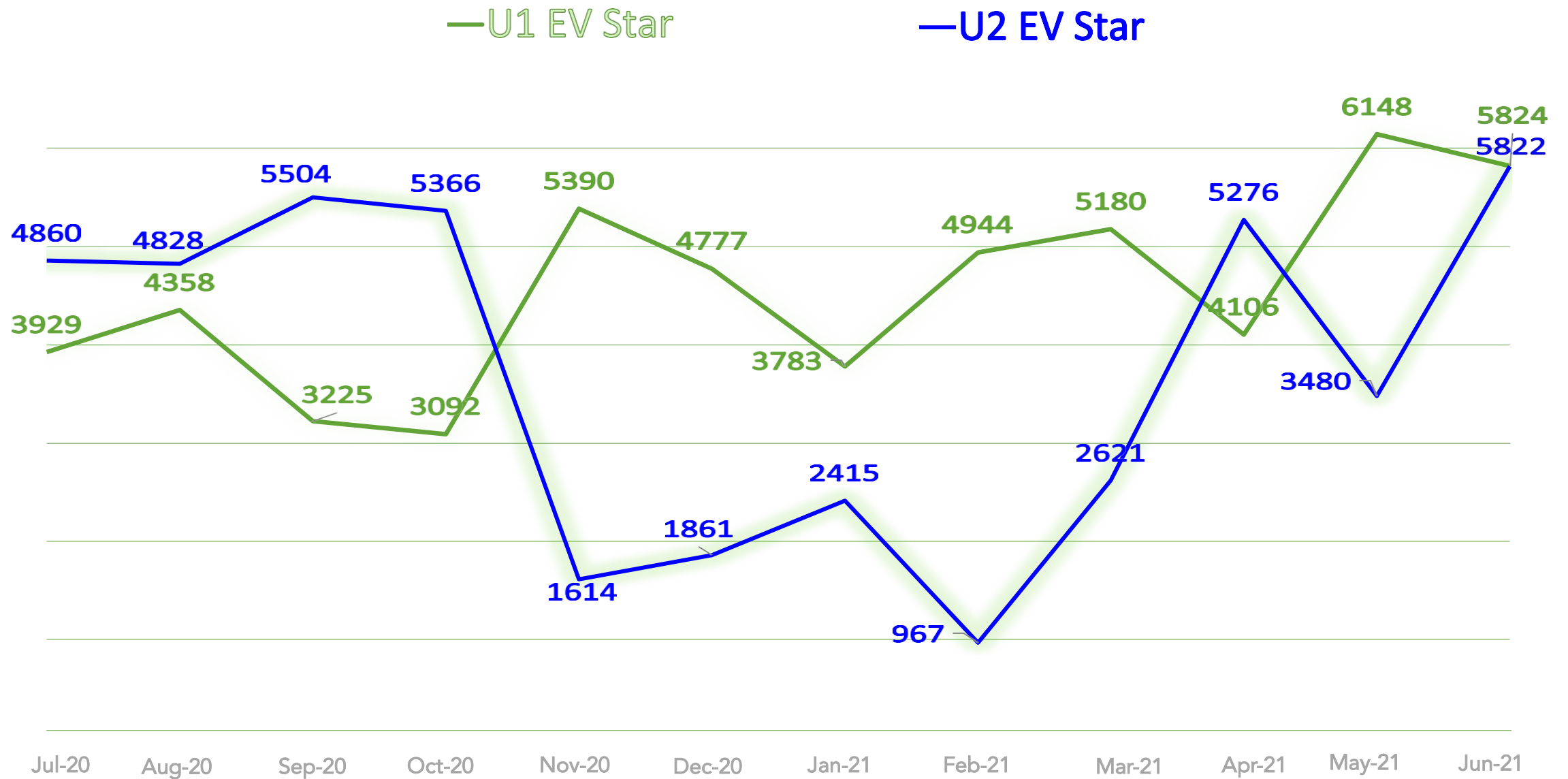


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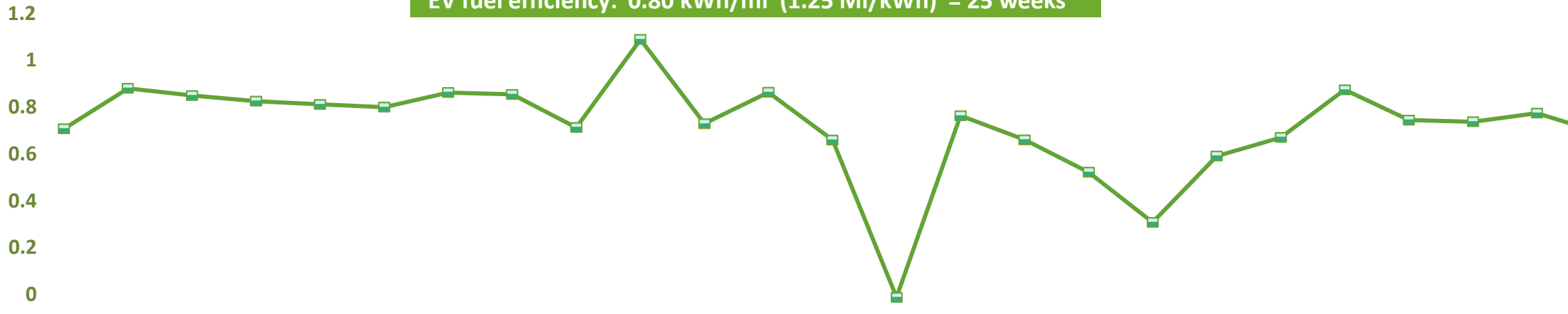
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Mileage



EV fuel efficiency: 0.80 kWh/mi (1.25 Mi/kWh) = 25 weeks



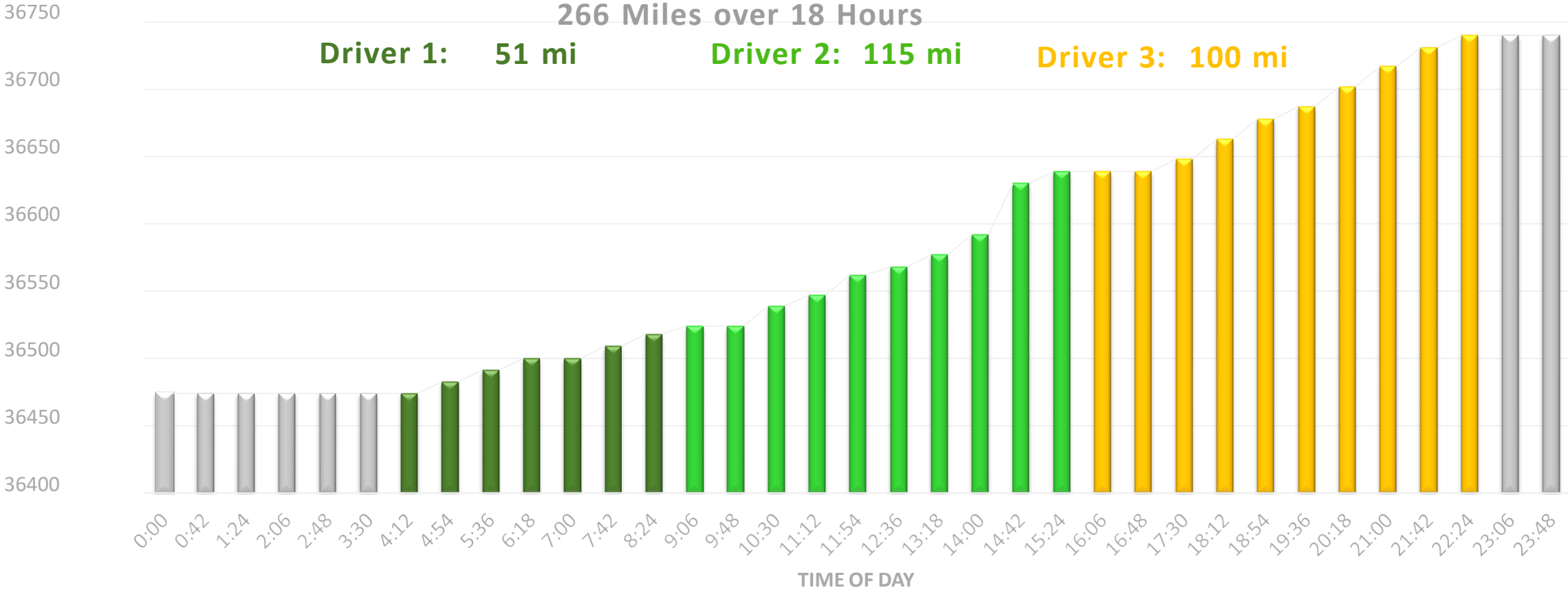
266 Miles over 18 Hours

Driver 1: 51 mi

Driver 2: 115 mi

Driver 3: 100 mi

ODOMETER MILEAGE



 **AIRPORT CASE STUDY**

Scan QR Code to view our EV Star Case Study

