



# PUBLIC SAFETY POWER SHUTOFF OVERVIEW

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California Public Utilities Commission  
(CPUC)



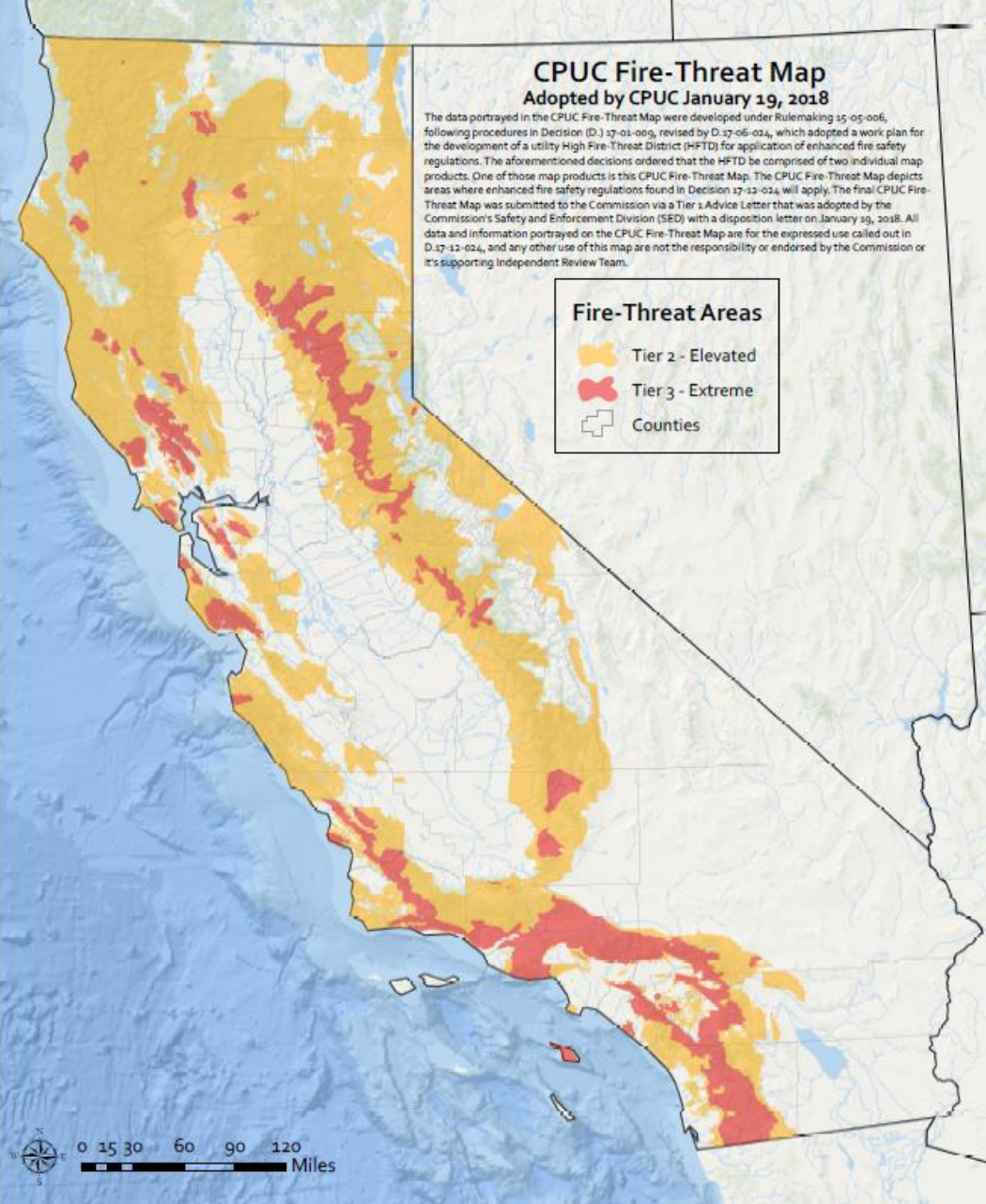


# Background

- 2009: CPUC found San Diego Gas & Electric (SDG&E) has authority to de-energize.
- 2012: CPUC adopted de-energization rules and requirements for reasonableness, notification, mitigation and reporting by SDG&E.
  - Since 2013 Pacific Gas and Electric Company (PG&E) and Southern California Edison Company (SCE) have exercised their authority to de-energize power lines.
- 2017: Most destructive wildfire season on record. CPUC issued a resolution (ESRB-8) extending 2012 rules and requirements to electric Investor Owned Utilities (IOU). ESRB-8 strengthened the reporting and public outreach, notification and mitigation guidelines adopted in 2012.
  - CPUC adopted the CPUC Fire-Threat Map designating Elevated and Extreme High Fire Threat Districts
- 2019: CPUC decision adopts de-energization (Public Safety Power Shut-off) communication and notification guidelines for the electric investor-owned utilities along with updates to the requirements established in 2017 resolution.



# High Fire Threat Map



# Fire-Threat Land Coverage in California



<b>Table 1</b> <b>Geographic Area Covered by the IRT-approved</b> <b>CPUC Fire-Threat Map</b> <b>Square Miles</b>			
Region	Tier 2 Elevated	Tier 3 Extreme	Tier 2 + Tier 3
Southern California	6,352	6,070	12,421
Northern California	51,476	6,408	57,884
Total for Tier	57,827	12,478	70,305
<b>Percent of California Land Area</b>			
Region	Tier 2 Elevated	Tier 3 Extreme	Tier 2 + Tier 3
Southern California	13.9%	13.2%	27.1%
Northern California	45.7%	5.6%	51.3%
Total for Tier	36.5%	7.8%	44.3%
<p><i>Source: Response of the Peer Development Panel to Administrative Law Judges' October 6, 2017 Ruling - Additional Shape B Map Information filed on November 20, 2017, at Appendix A, page A-10.</i></p>			



# PSPS DATA

## October 2013 – 31 December 2018

	AVG Days	AVG HRS	Total Days	AVG Customers/Circuit	Total Customers	# of Circuits (incl duplicates)
PGE	1.13	27.17	46.41	1465.51	60,086.00	41
SCE	0.61	14.68	0.61	34.00	34.00	1
SDGE	1.57	37.27	203.42	360.38	46,849.00	131
Total			250.45		106,969.00	173
Overall AVG	1.91	45.76		1177.08		

## 2019

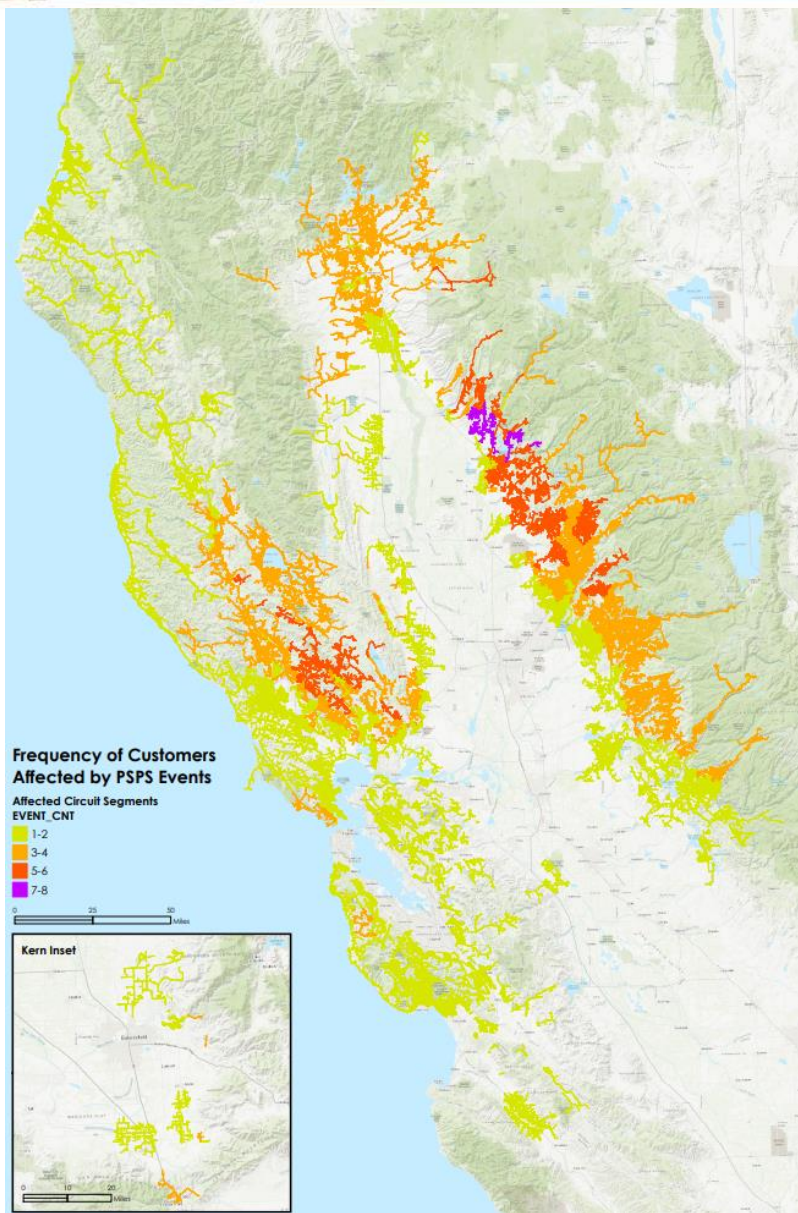
	AVG Days	AVG HRS	Total Days	AVG Customers/Circuit	Total Customers	# of Circuits (incl duplicates)
PGE	2.14	51.36	3716.91	1332.05	1,950,127.00	1762
SCE	1.18	28.42	266.48	808.71	181,960.00	225
SDGE	1.27	30.37	322.71	585.50	48,011.00	255
Total			4306.10		2,180,098.00	2,242.00
Overall AVG	1.53	36.72		908.76		

## October 2019

	AVG Days	AVG HRS	Total Days	AVG Customers/Circuit	Total Customers	# of Circuits (incl duplicates)
PGE	2.25	53.88	3648.29	1352.38	1,858,173.00	1650
SCE	1.19	28.63	265.99	815.58	181,875.00	223
SDGE	1.27	30.37	322.71	585.50	48,011.00	255
Total			4237.00		2,088,059.00	2,128.00
Overall AVG	1.57	37.63		917.82		



# 2019 PG&E PSPS Events Frequency of Impact



1) 2019 PSPS Events: Jun 7, Sept 23, Oct 4, Oct 9, Oct 23, Oct 26, Oct 29, Nov 20 (based on weather events)





# PG&E PSPS 2019

EVENT DETAILS	JUNE 8 - 9	SEPT 23 - 26	OCT 5 - 6	OCT 9 - 12	OCT 23 - 25	OCT 26 - NOV 1	NOV 20 - 21 <sup>1</sup>
CUSTOMERS IMPACTED	~22,000	~50,000	~11,000	~732,000	~177,000	~941,000	~50,000
COUNTIES IN SCOPE	5	7	3	35	17	38	11
CRCs OPEN	4	8	3	33	28	77	29
PEAK WIND GUSTS	63 mph	58 mph	51 mph	77 mph	80 mph	102 mph	75 mph
DAMAGE/HAZARDS	5	4	2	116	26	328	15
AVG. OUTAGE DURATION AFTER ALL CLEAR	5 HRS	7 HRS	4 HRS	25 HRS	5 HRS	14 HRS <sup>2</sup>	10 HRS
AVG. OUTAGE DURATION TOTAL	16 HRS	16 HRS	14 HRS	37 HRS	25 HRS	55 HRS	25 HRS

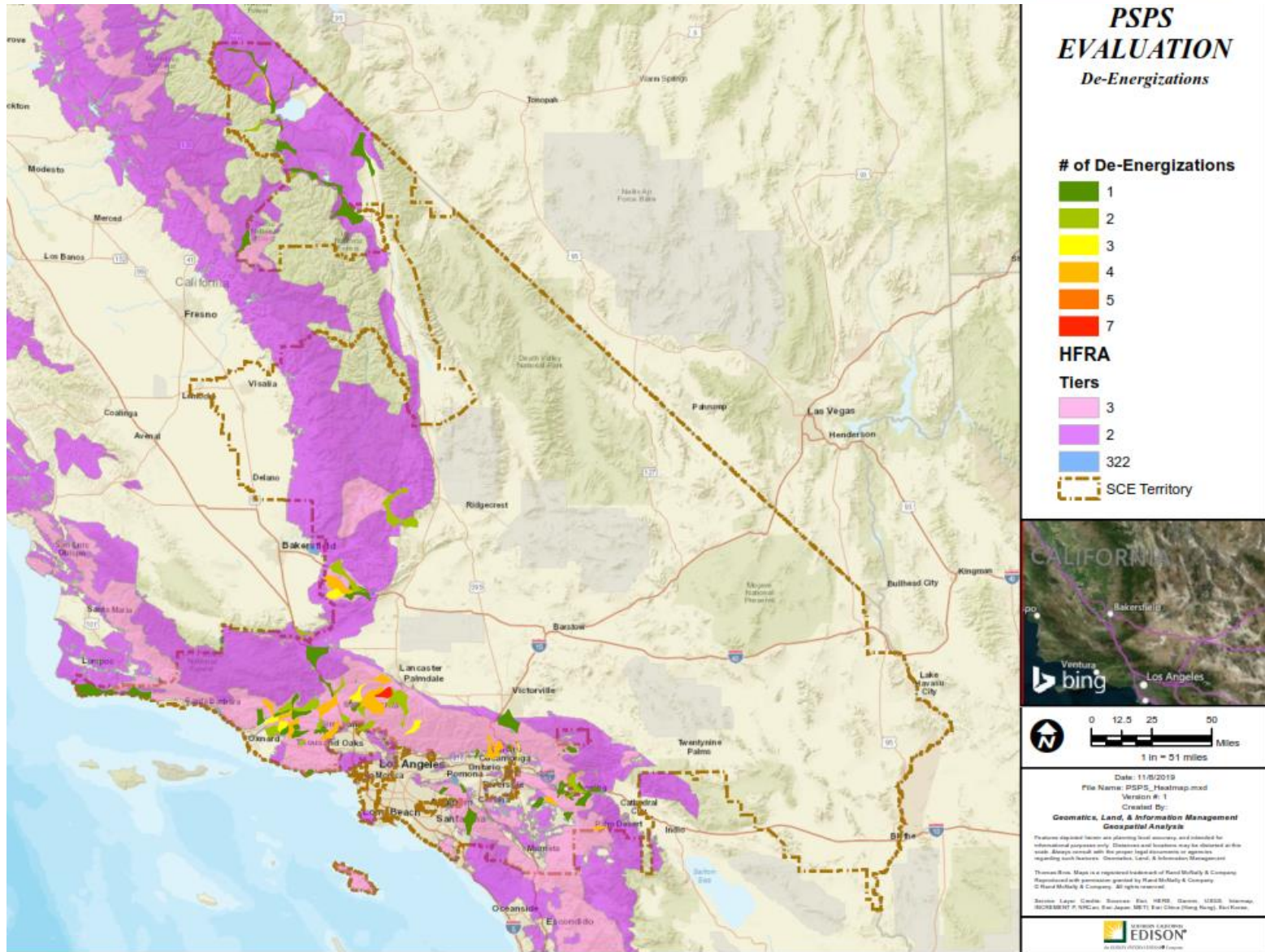
Note: All data is subject to change based on ongoing data reconciliation.

<sup>1</sup>Data represents preliminary estimates and is likely to change. Post-event reconciliation for CPUC reporting requirements is in progress.

<sup>2</sup>Restoration time is calculated using the "all clear" time associated with the Oct 29 event after which final restoration occurred for customers who were impacted by both Oct 26 and Oct 29 events but not restored between events. Analysis of outage metrics for these consecutive events is ongoing.

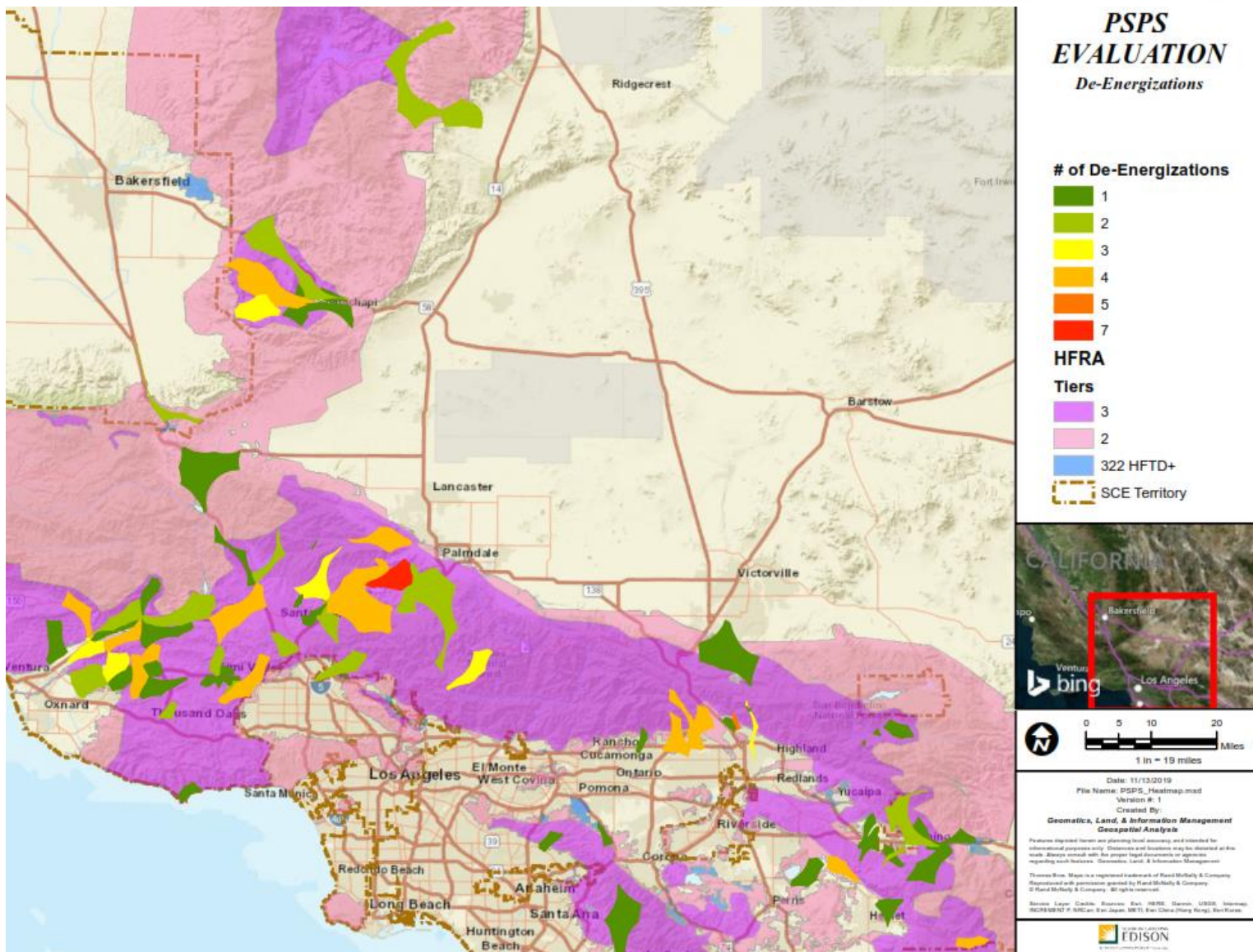


# 2019 SCE PSPS Events Frequency of Impact

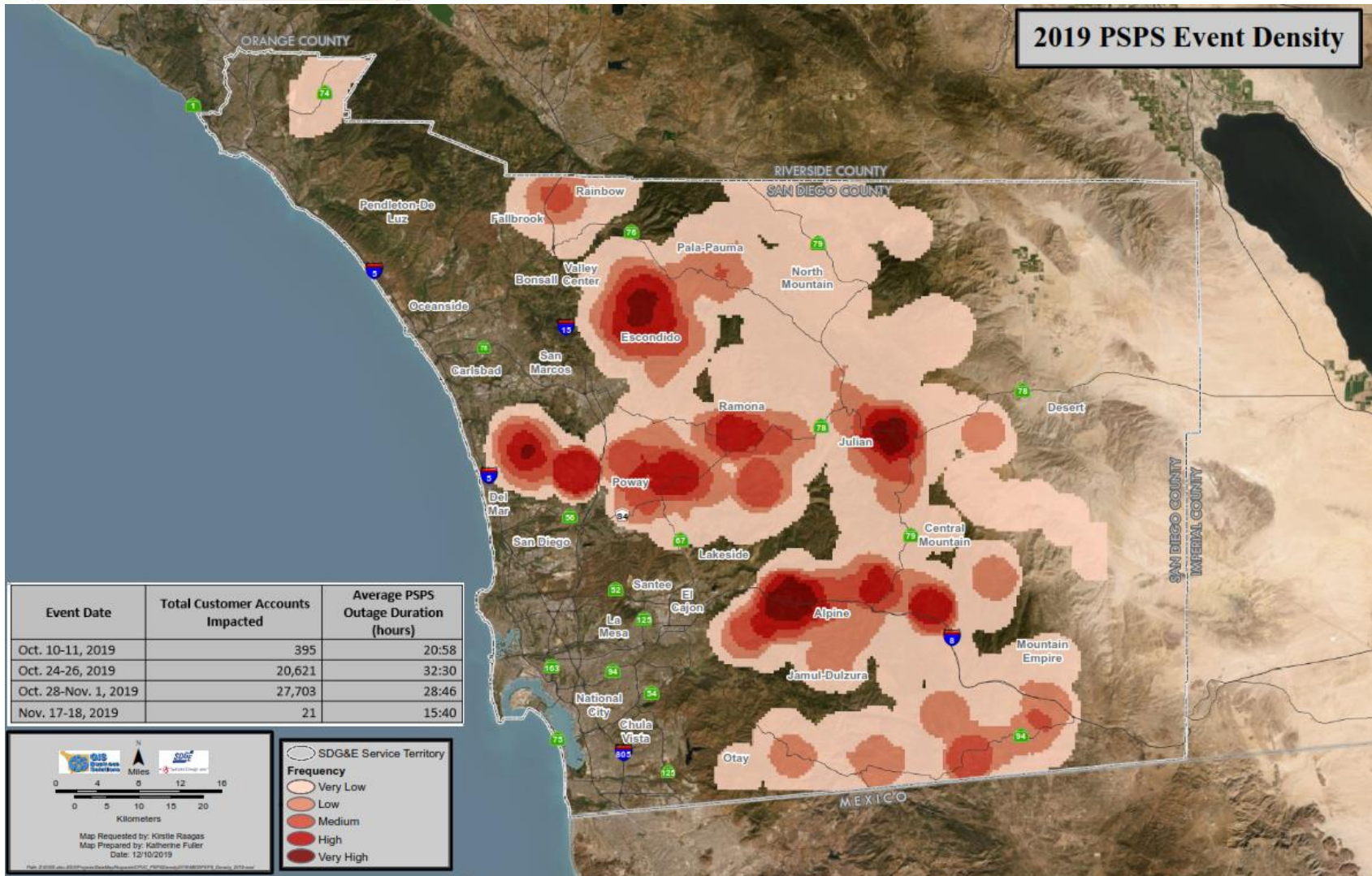




# 2019 SCE PSPS Events Frequency of Impact



# 2019 SDG&E PSPS Events Frequency of Impact





# Questions?

