

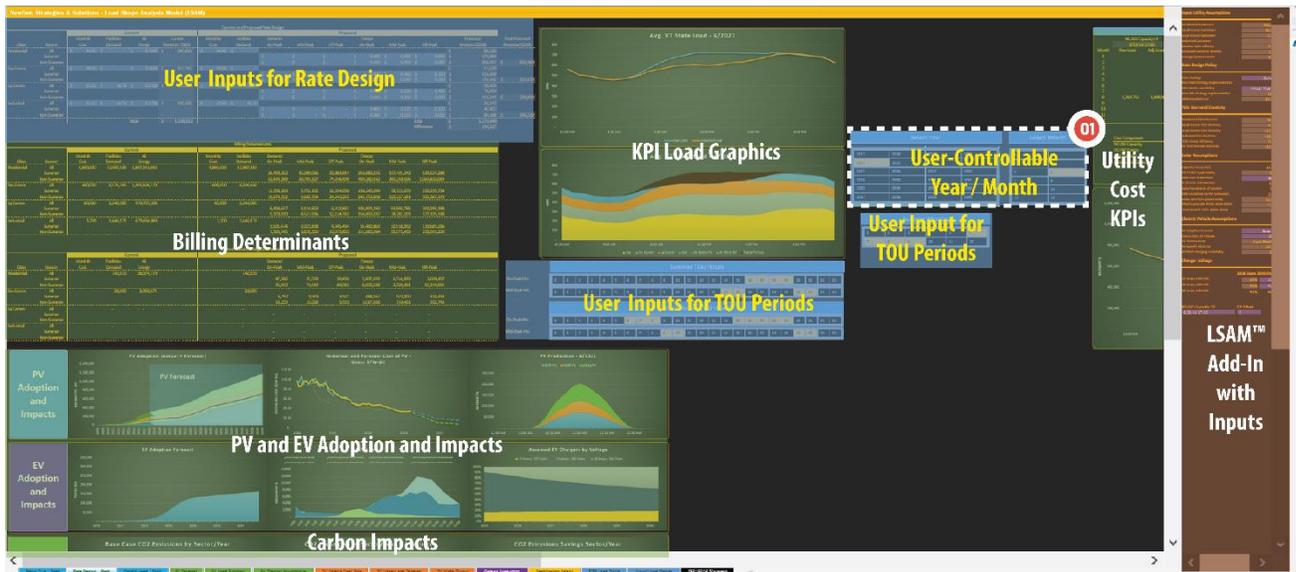
## LOAD SHAPE ANALYSIS MODEL (LSAM™) SCENARIO 2 USER INSTRUCTION MANUAL

### Scenario 2 – 2040 Rate Design, High Electric Vehicle

The second scenario is defined as a forecast of system dynamics in 2040, with the following set of LSAM™ Add-In Assumptions:

- 01 Rate Design Policy – **Current**
- 02 Ongoing Solar Net Metering Policy – **Current**
- 03 Solar Cost Projections – **Base**
- 04 Electric Vehicle Adoption Forecast – **High** (updated from "Base" in Scenario 1)
- 05 Electric Vehicle Charger Market Share by Voltage Over Time
  - a. **20%** 1.8 kilowatts (kW) – 15 Amps, 120 Volts
  - b. **40%** 7.2 kW – 30 Amps, 240 Volts
  - c. **40%** 12 kW – 50 Amps, 240 Volts

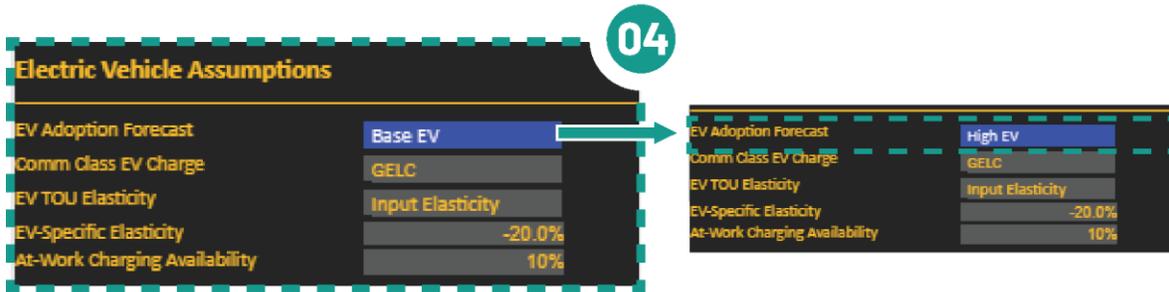
To initiate this scenario, first change the year selection on the Rate Design – Dash to 2040:



Scenario 2 – 2040 Rate Design

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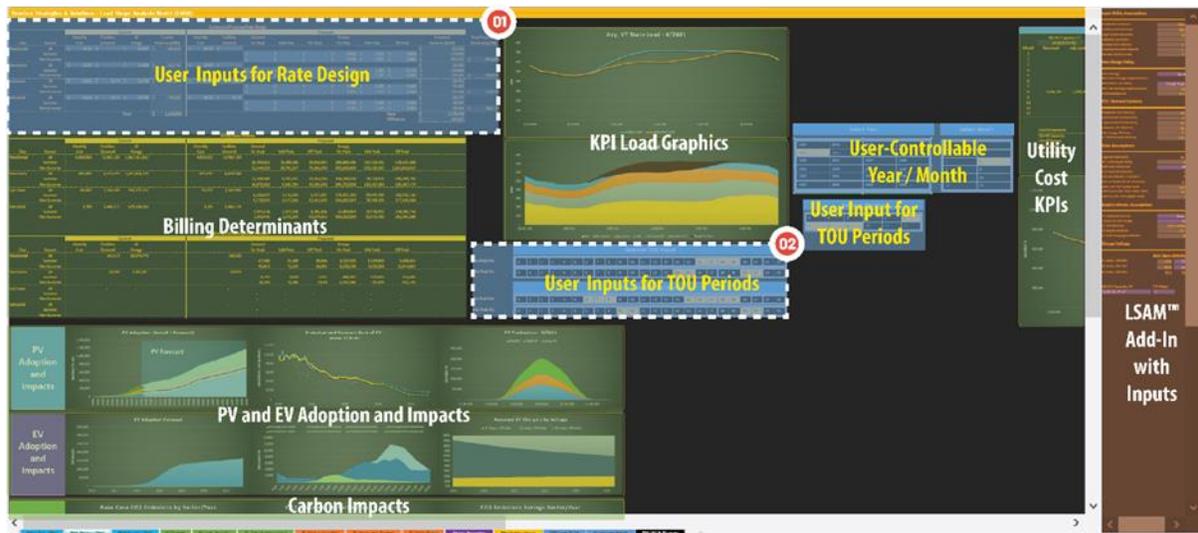
In the LSAM™ Add-In, change the Electric Vehicle (EV) adoption forecast from "Base" to "High":



Revisit the KPIs produced in the 2040 model under the "High" Electric Vehicle scenario. How have the KPIs evolved in moving the model forward 10 years, and assuming a higher rate of EV adoption?

Are there tweaks that may be made to your 2030 rate design that might managing some of the negative impacts of the changes in Utility Cost KPIs?

Redesign Time-of-Use (TOU) rates accordingly.



**Scenario 2  
Rate Design – Dash**

Class	Season	Current				Proposed								
		Monthly Curt	Facilities Demand	All Energy	Current Revenue (\$000)	Monthly Curt	Facilities Demand	Demand On-Peak	Mid-Peak	Off-Peak	Energy On-Peak	Mid-Peak	Off-Peak	Proposed Revenue (\$000)
Residential	All	\$ 34.80	\$ -	\$ 8,1943	\$ 630,331	\$ 34.00	\$ -	\$ -	\$ -	\$ -	\$ 0.400	\$ 0.250	\$ 0.099	\$ 397,190
	Summer Non-Summer					\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.400	\$ 0.200	\$ 0.083	\$ 290,509
Sm Comm	All	\$ 19.85	\$ -	\$ 8,1638	\$ 262,311	\$ 19.05	\$ -	\$ -	\$ -	\$ -	\$ 0.400	\$ 0.200	\$ 0.110	\$ 117,170
	Summer Non-Summer					\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.350	\$ 0.200	\$ 0.090	\$ 181,454
Lg Comm	All	\$ 31.82	\$ 16.74	\$ 8,1768	\$ 205,201	\$ 31.62	\$ 16.74	\$ -	\$ -	\$ -	\$ 0.420	\$ 0.220	\$ 0.100	\$ 69,575
	Summer Non-Summer					\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.400	\$ 0.210	\$ 0.090	\$ 106,052
Industrial	All	\$ 31.82	\$ 16.74	\$ 8,1768	\$ 140,928	\$ 31.62	\$ 16.74	\$ -	\$ -	\$ -	\$ 0.400	\$ 0.220	\$ 0.100	\$ 24,155
	Summer Non-Summer					\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.400	\$ 0.220	\$ 0.092	\$ 38,443
<b>Total</b>					<b>\$ 1,238,194</b>									<b>\$ 1,343,631</b>
													<b>Difference</b>	<b>\$ 105,437</b>

**Example Rate Design – Rate Design Inputs for Proposed Rates**

# LOAD SHAPE ANALYSIS MODEL (LSAM™) SCENARIO 2 USER INSTRUCTION MANUAL

02

Summer TOU Hours	
On-Peak Hrs	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Mid-Peak Hrs	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Non-Summer TOU Hours	
On-Peak Hrs	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Mid-Peak Hrs	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

**Example Rate Design – Dash Peak Period User Selections**