

Public Forum: Take Control of Your Electric Bill With Time of Use Rates

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Agenda

- What Are Time of Use Rates?
- Why Implement Them?
- What Has Been Done So Far?
 - Goals
 - Proposals
 - Final Recommendation
- What Does It Mean For You?
- Next Steps
- Q&A

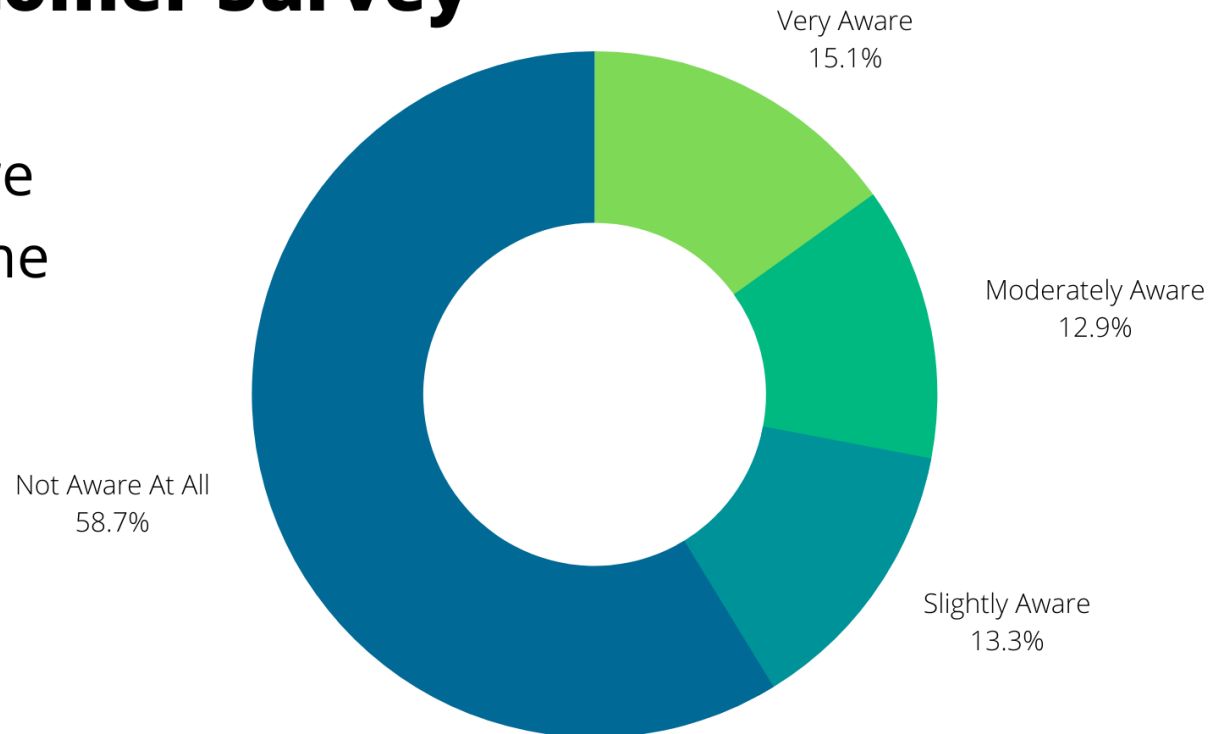
What Are Time of Use Rates?

- Time of use (TOU) rates use a more dynamic structure that incentivizes customers to use electricity when the cost of generating it is lowest and disincentivizes electricity use when generation costs are highest.
- Also called Time of Day Rates

Little Awareness...

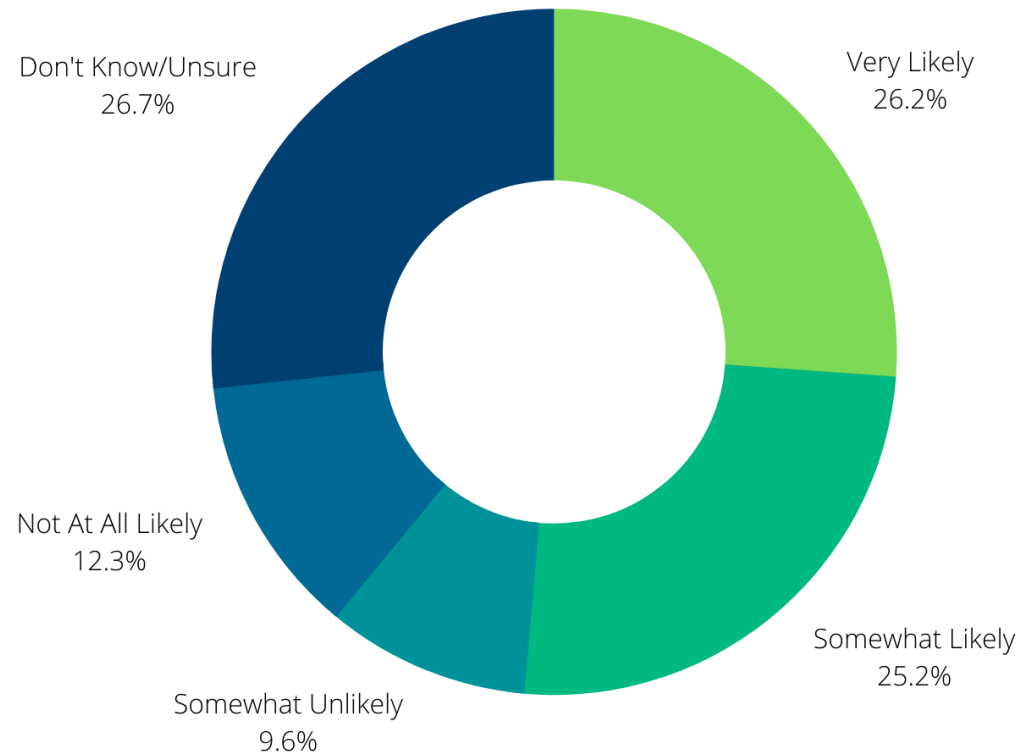
2021 Customer Survey

Q: How aware
are you of time
of use
program?



2021 Customer Survey

Q: How likely might you be to opt into a time of use program?



Why TOU Rates?

TOU Rates Do Important Things:

- Lower costs for customers who are able to shift their usage to off-peak times;
- Lower costs for Belmont Light by reducing peak supply costs;
- Create more opportunity for a greener power supply
 - Energy is more likely to come from the dirtiest fossil fuel sources during on-peak times.
- Support strategic electrification

Lower Costs for Customers

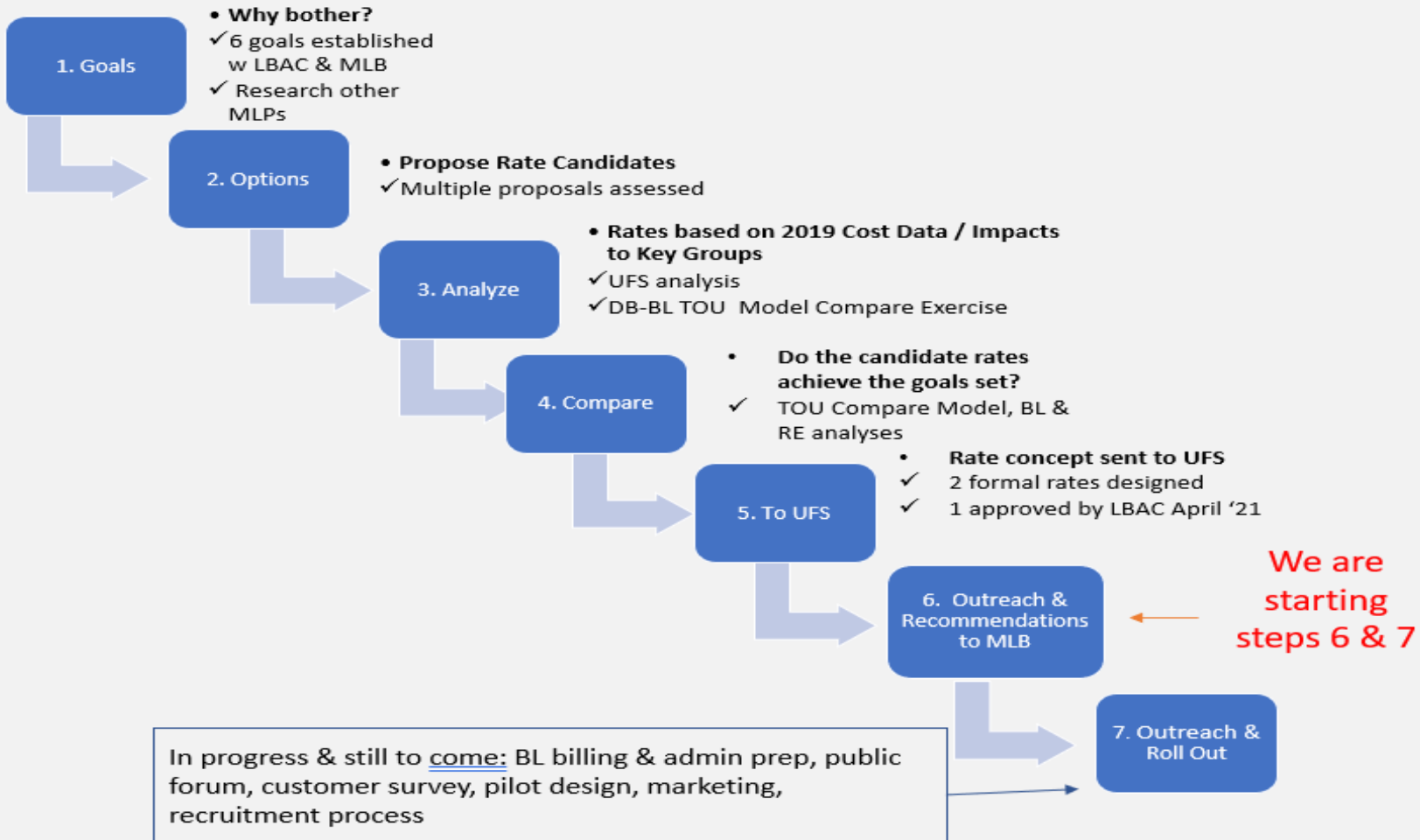
- Designed to be revenue neutral for Belmont Light
 - Minimal impact for an average residential customer with no behavioral change
- Residential Rate A Customers with 20% load shifting year-round - ~5% bill savings per month
 - Average customer could save \$73 per year with this load shifting
- Belmont Light and LBAC have studied impacts on all different customer groups (e.g. low income rate, high usage, EV drivers, heat pump owners)

Lower Costs for Belmont Light

- Belmont Light costs based on transmission and capacity charges
 - Capacity – our load during annual regional peak hour
 - Transmission – our load during monthly network peak hours
- \$124/kW savings during annual capacity peak
- \$10.27/kW savings during monthly transmission peak
- 1 megawatt of avoided peak load = **~\$134,000 savings for Belmont Light**

****Based on 2020 actual power supply costs****

Progress So Far



Goals of TOU Rates

6 Goals Were Identified by Belmont Light and the Light Board Advisory Committee, approved by Light Board:

1. Align customer savings with savings for Belmont Light
2. Support strategic electrification
3. Protect low-income customers
4. Support energy efficiency efforts & solar initiatives
5. Ensure Belmont Light revenue sufficiency & stability
6. Provide for easy implementation

What We Learned from Other MLPs

1. Keep It Simple!
2. A Pilot Is Crucial
3. Rate Design is Utility-Specific
4. Communicate, Communicate, Communicate!



Multiple Proposals Assessed

- ~~• 9-Hour with Critical Peak~~
- ~~• 9-Hour Year-Round Peak~~
- ~~• 6-Hour Summer Peak Only~~
- 6 Hour Summer & 4 Hour Winter Peak

Proposal Finalist(s)

Season	Hours	Current FLAT Rate (\$/kWh)	Recommended Rate [Weekends & Holidays Included] (\$/kWh)*	Runner-Up Rate [Weekends & Holidays Excluded] (\$/kWh)*
Summer On-Peak	Jun-Sept [1 PM – 7 PM]	\$0.193	\$0.457	\$0.587
Summer Off-Peak	Jun-Sept [7 PM – 1 PM]		\$0.133	\$0.136
Non-Summer On-Peak	Oct-May [4 PM – 8 PM]		\$0.299	\$0.363
Non-Summer Off-Peak	Oct-May [8 PM – 4 PM]		\$0.138	\$0.142

*Rounded to nearest thousandth

Impacts on Average Residential Customer

Summer Load Shift

Winter Load Shift

Load Shift	0%	1%	2%	3%	4%	5%
0%	\$0	-\$3	-\$5	-\$7	-\$9	-\$12
1%	-\$2	-\$4	-\$6	-\$8	-\$11	-\$13
2%	-\$3	-\$5	-\$8	-\$10	-\$12	-\$14
3%	-\$5	-\$7	-\$9	-\$11	-\$13	-\$16
4%	-\$6	-\$8	-\$10	-\$13	-\$15	-\$17
5%	-\$7	-\$10	-\$12	-\$14	-\$16	-\$18

Load Shift	10%	20%	25%	50%	75%	100%
10%	-\$36	-\$59	-\$70	-\$126	-\$182	-\$238
20%	-\$50	-\$73	-\$84	-\$140	-\$196	-\$252
25%	-\$57	-\$80	-\$91	-\$147	-\$203	-\$259
50%	-\$92	-\$114	-\$126	-\$182	-\$238	-\$293
75%	-\$127	-\$149	-\$160	-\$216	-\$272	-\$328
100%	-\$162	-\$184	-\$195	-\$251	-\$307	-\$363

HOURLY USAGE (Summer Only; 1-7 p.m.)



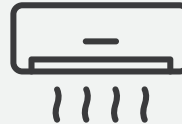
Water Heater (4.5 kWh)
Summer Peak: **\$2.06**
Summer Off-Peak: **\$0.60**
Savings: **\$1.46**



EV Charger (6.6 kWh)
Summer Peak: **\$3.02**
Summer Off-Peak: **\$0.878**
Savings: **\$2.14**



Clothes Dryer (3.75 kWh)
Summer Peak: **\$1.71**
Summer Off-Peak: **\$0.50**
Savings: **\$1.21**



Central AC (3.0 kWh)
Summer Peak: **\$1.37**
Summer Off-Peak: **\$0.40**
Savings: **\$0.97**

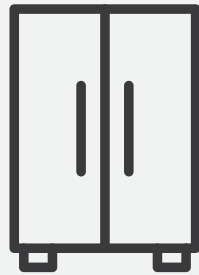


Dish Washer (0.9 kWh)
Summer Peak: **\$0.41**
Summer Off-Peak: **\$0.12**
Savings: **\$0.29**



Television (0.15 kWh)
Summer Peak: **\$0.07**
Summer Off-Peak: **\$0.02**
Savings: **\$0.05**

ITEMS WITH ALL-DAY USAGE



Refrigerator (1.8 kWh per day)

Summer Day: **\$0.39**

Non-Summer Day: **\$0.30**

Yearly Cost to Run: **\$119.09**

Current Rate A Yearly Cost: **\$126.91**

Yearly Savings from TOU: **\$7.82**



Wi-Fi Router (.14 kWh per day)

Summer Day: **\$0.03**

Non-Summer Day: **\$0.02**

Yearly Cost to Run: **\$9.53**

Current Rate A Yearly Cost: **\$9.87**

Yearly Savings from TOU: **\$0.34**

- Feedback from You
 - Feedback form on website
 - Customer survey to come
- Public Forum #2 – August 2021
 - Pilot Program Info Session
- Pilot Program – Begins October 2021

Questions?

Contact Us

www.BelmontLight.com

www.BelmontLight.com/time-of-use-feedback-form/

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