

# Time of Use Rate Pilot Program Q1 Check-In

**Ben Thivierge, Energy Specialist**  
**Aidan Leary, Communications Coordinator**

**June 15, 2022**



# Agenda

- Refresher on Time of Use Rates Pilot Program
- First Quarter Program Results
- Participant Survey Review
- Case Studies
- Suggestions for this Summer
- Q&A
- Next Steps

# What & Why TOU Rates?

***Time of Use (TOU) Rates** are a dynamic structure that more precisely pass on Belmont Light's energy costs to customers.*

## ***With TOU, We Aim To:***

- 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

**Goal:** To provide Belmont Light and the Municipal Light Board with data with which to decide on the viability of a future Time of Use Rate

**Participation:** 146 Participants to start

**Duration:** 1 Year (Jan. – Dec, 2022)

**Check-In Period:** Jan. 8 – Apr. 8, 2022

# Pilot Program Rate Schedule

**Summer**  
June - September



**Non-Summer**  
October - May



12:00 AM

**Off-Peak**  
7:00 p.m. - 1:00 p.m.  
Daily  
(Not including weekends & holiday)  
**\$0.136/kWh**

12:00 AM

**Off-Peak**  
8:00 p.m. - 4:00 p.m.  
Daily  
(Not including weekends & holiday)  
**\$0.141/kWh**

1:00 PM

**Peak Hours**  
1:00 p.m. - 7:00 p.m.  
Daily  
(Not including weekends & holiday)  
**\$0.587/kWh**

4:00 PM

**Peak Hours**  
4:00 p.m. - 8:00 p.m.  
Daily  
(Not including weekends & holiday)  
**\$0.363/kWh**

7:00 PM

**Off-Peak**  
7:00 p.m. - 1:00 p.m.  
Daily  
(Not including weekends & holiday)  
**\$0.136/kWh**

8:00 PM

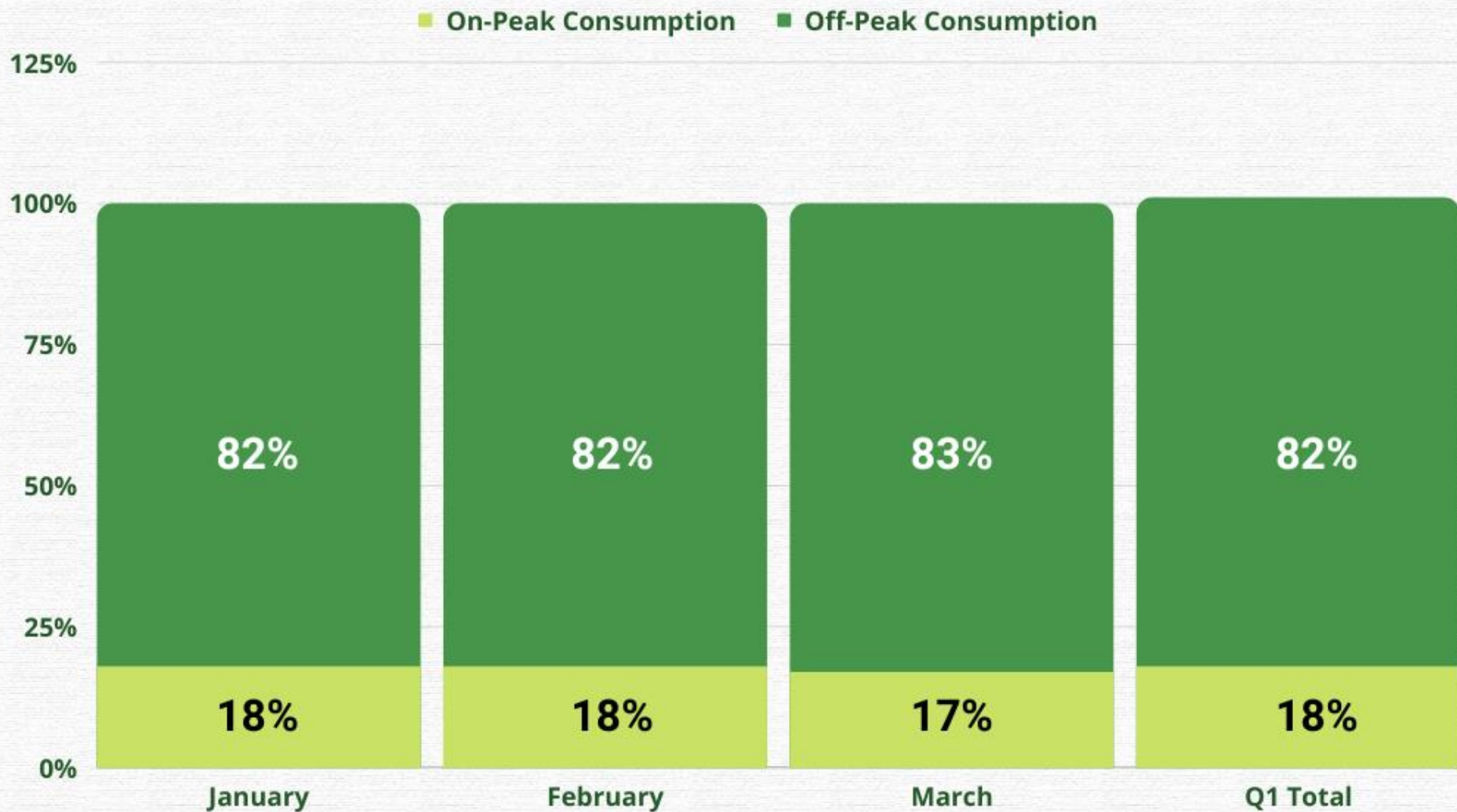
**Off-Peak**  
8:00 p.m. - 4:00 p.m.  
Daily  
(Not including weekends & holiday)  
**\$0.141/kWh**

12:00 AM

12:00 AM

# First Quarter Results

# TOU Q1 2022 Consumption On-Peak vs. Off-Peak

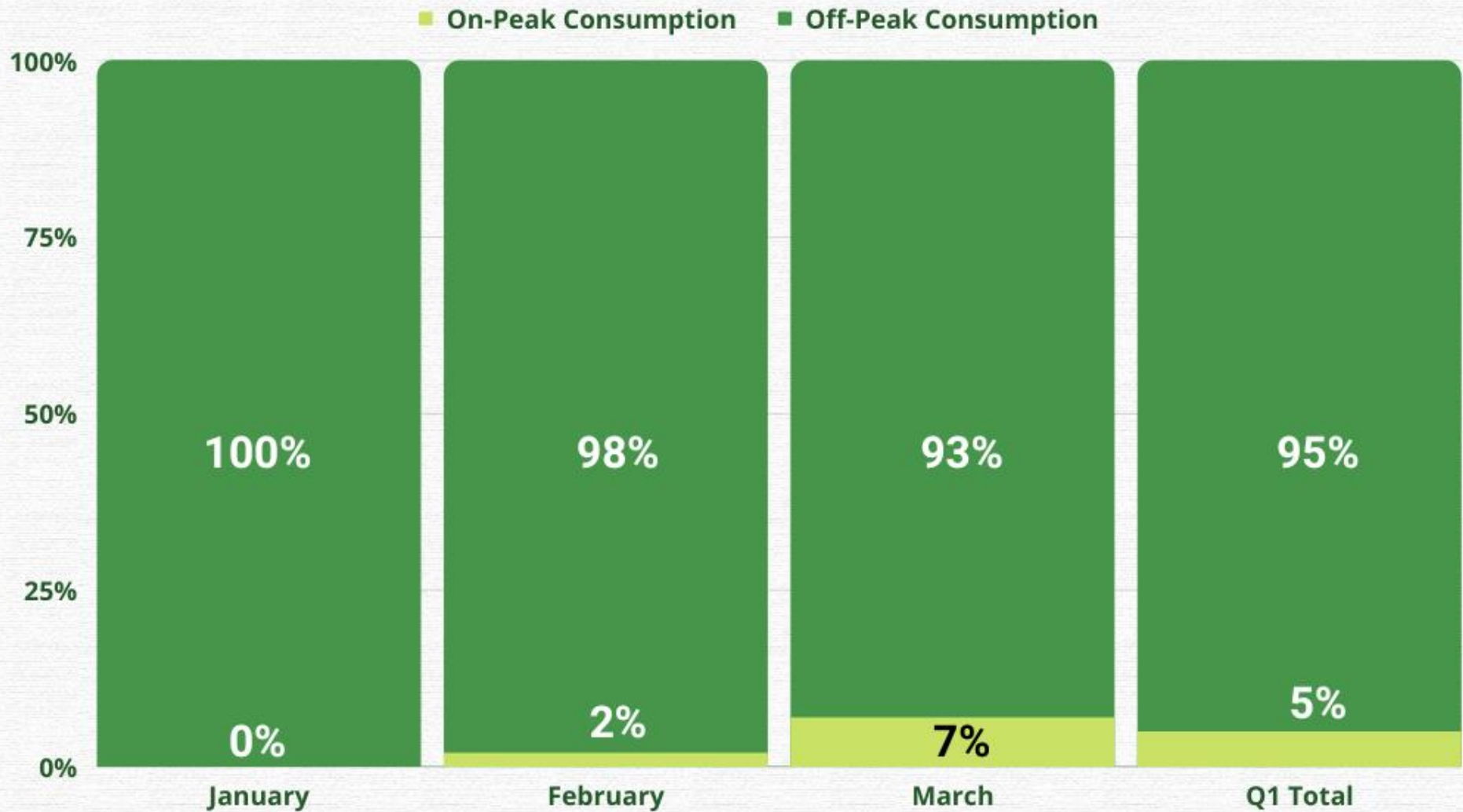


# TOU Pilot Program Q1 2022

## TOU to Rate A Comparison

	<b>\$/kWh</b>	<b>Average Monthly kWh</b>	<b>Average Monthly Bill Cost</b>
<b>TOU</b>	<b>\$0.17</b>	<b>876</b>	<b>\$146.25</b>
<b>TOU if on Rate A</b>	<b>\$0.19</b>	<b>876</b>	<b>\$169.22</b>
<b>Variance</b>	<b>\$(0.02)</b>	<b>-</b>	<b>\$(22.96)</b>
<b>Average Rate A Customer</b>	<b>\$0.19</b>	<b>557</b>	<b>\$106.60</b>

# TOU Q1 2022 Buyback On-Peak vs. Off-Peak



# TOU Pilot Program Q1 2022 Rate EFR Comparison

	\$/kWh	Average Monthly kWh
<b>TOU Buyback</b>	<b>\$0.072</b>	<b>246</b>
<b>Rate EFR</b>	<b>\$0.11</b>	<b>297</b>
<b>Variance</b>	<b>\$0.038</b>	<b>-17%</b>

# TOU Pilot Program Q1 2022

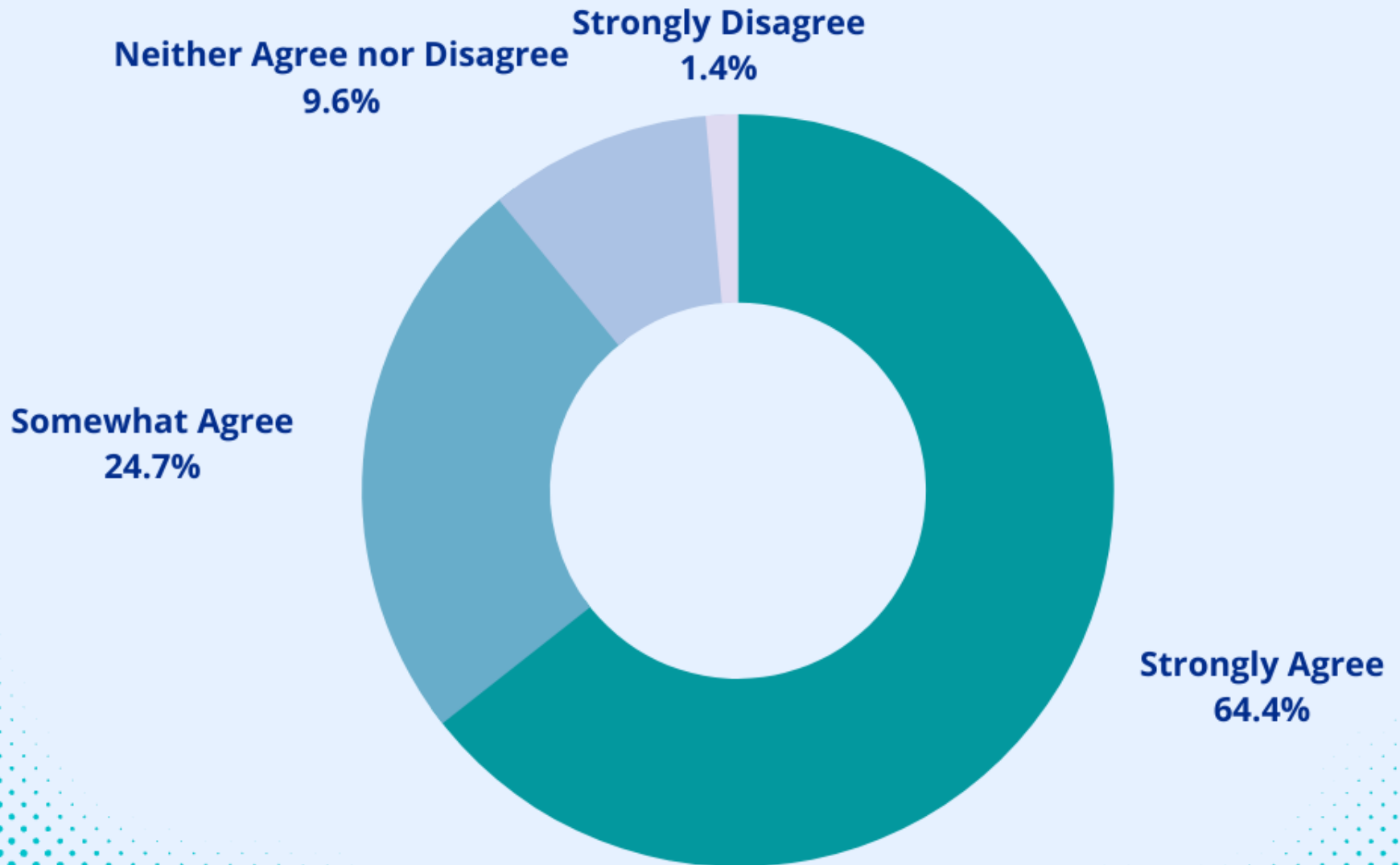
## Hypothetical TOU to A & EFR Comparison

	TOTAL GROUP		PER CUSTOMER
	\$ Variance - Actual from Hypothetical	% Variance - Actual from Hypothetical	Average \$ Per Participant
TOU Solar Buyback	\$1,949.17	-59%	\$ (30)
TOU A	\$10,070.29	-16%	\$ (69)

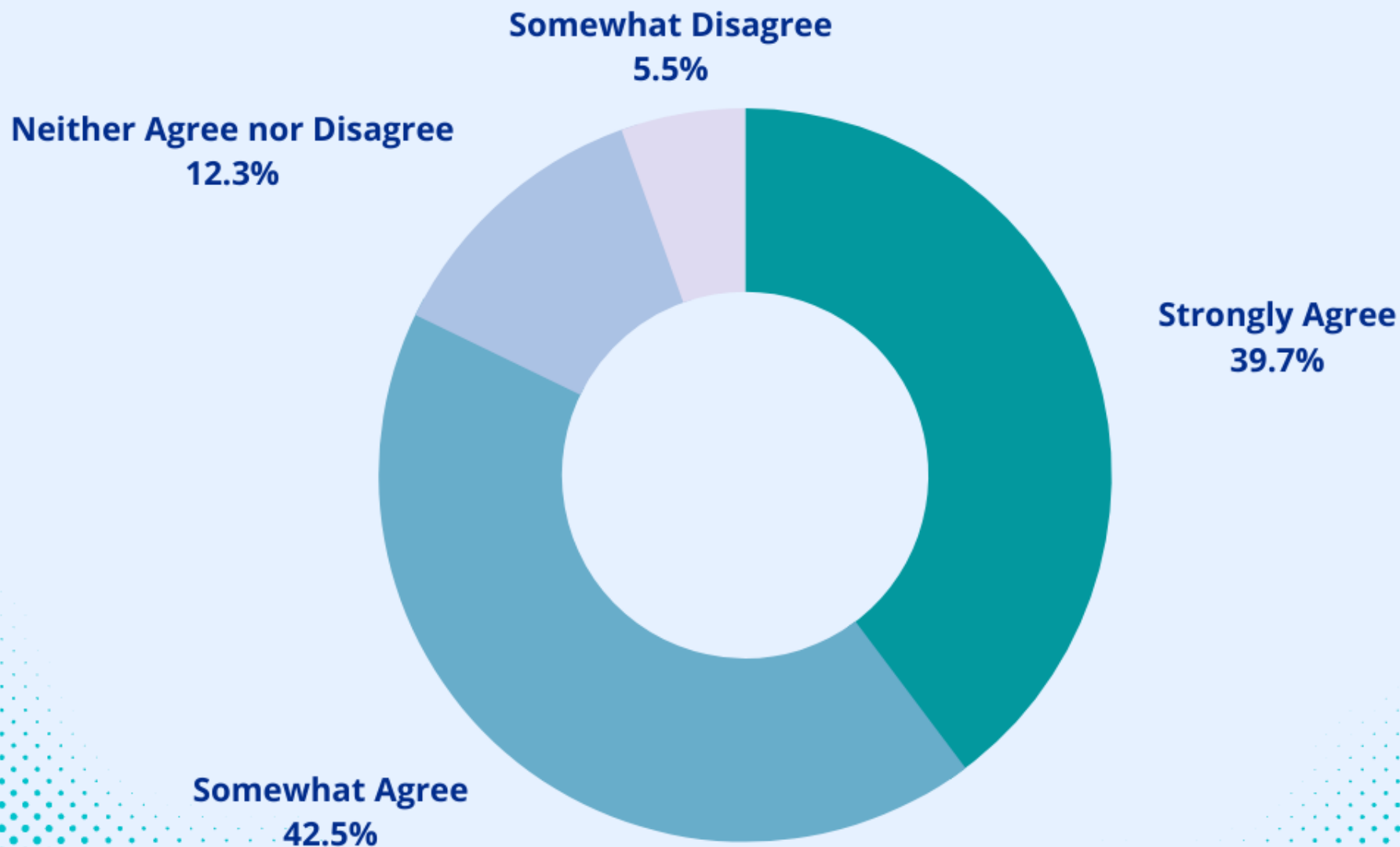
# TOU Pilot Program Participant Survey

**Participants: 73 (50%)**

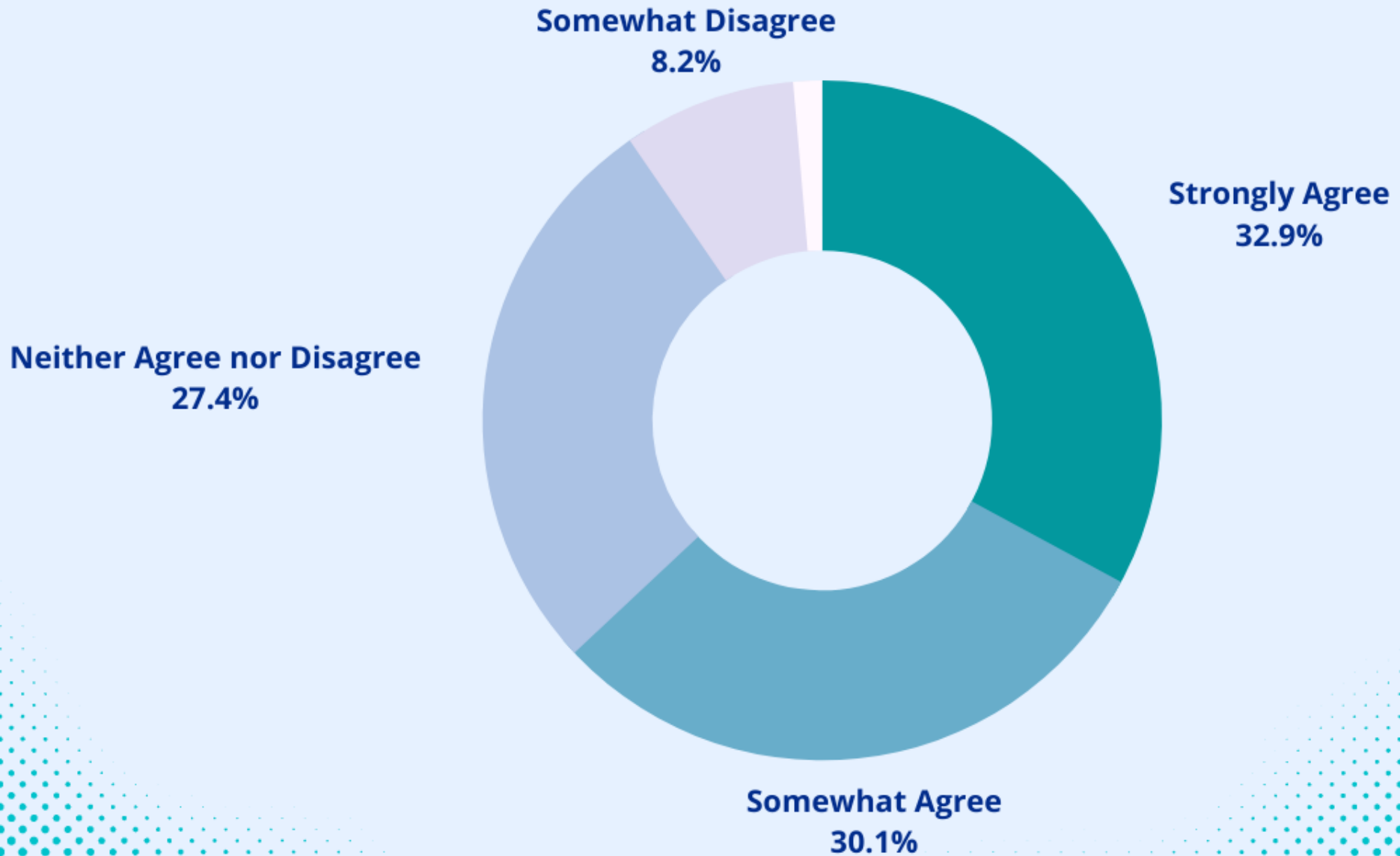
# The Program is Easy to Understand



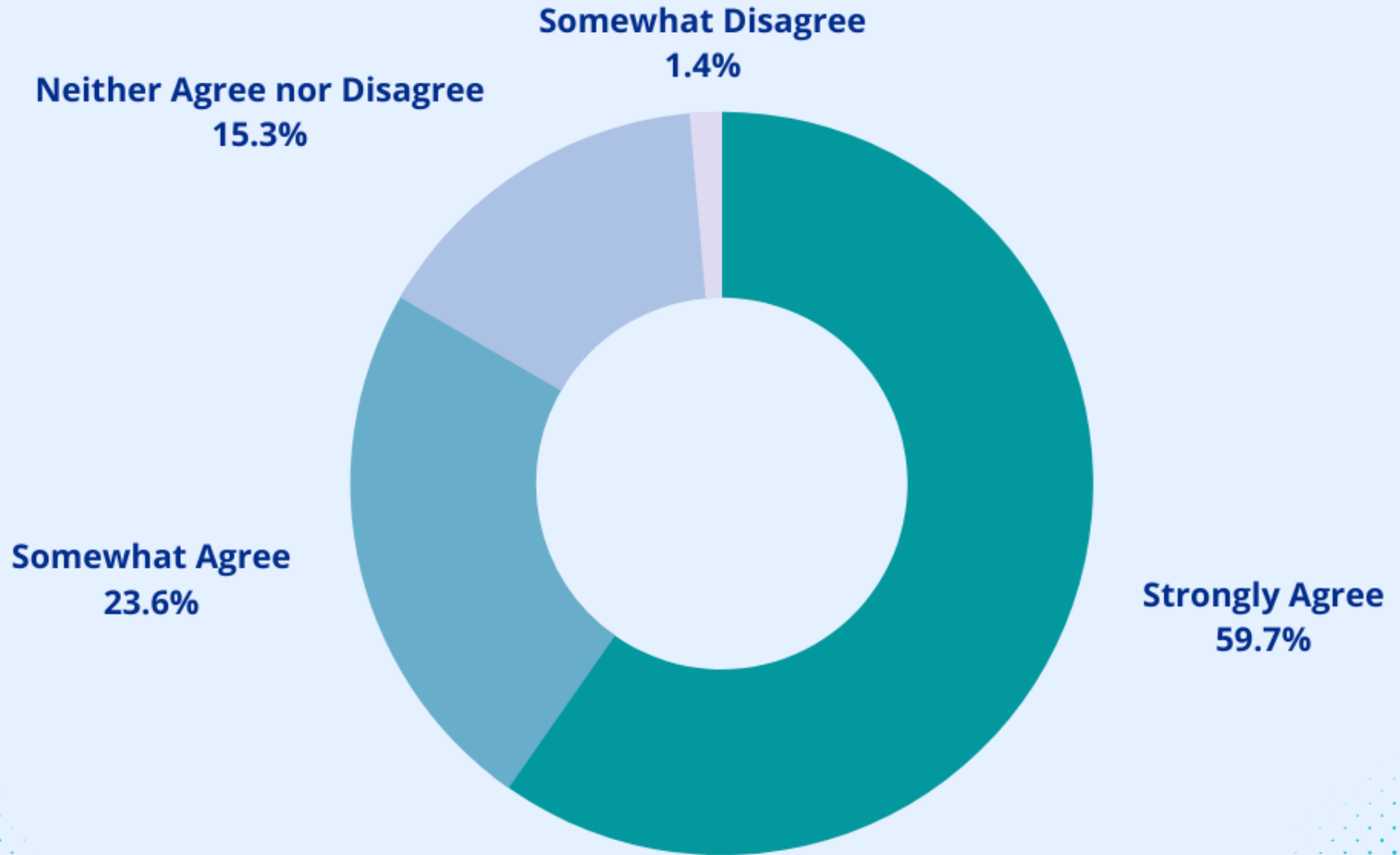
# It Has Been Easy to Make Changes Around the House



# I Am Seeing Savings Using the TOU Rate



# I Would Want to Continue on the TOU Rate after the Pilot



# Q: What Actions Have You Taken to Move Your Energy Off-Peak?

## Answers

- **Set timer on major electric loads (e.g. pool pumps, EV chargers)**
- **Use smart thermostats to change AC/heating load at set times**
- **Put notes next to major appliances**

## Responses

**31**

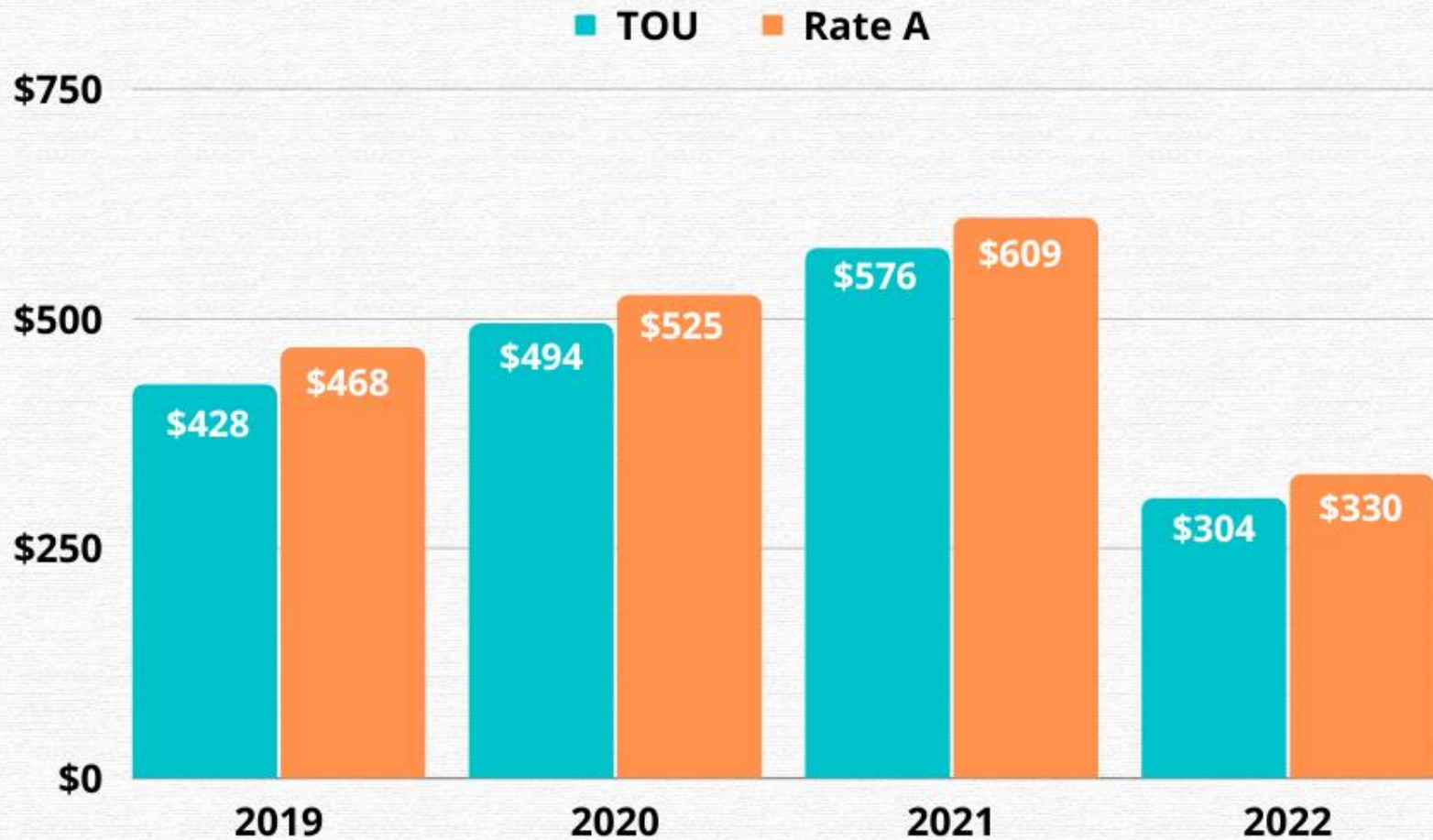
**18**

**10**

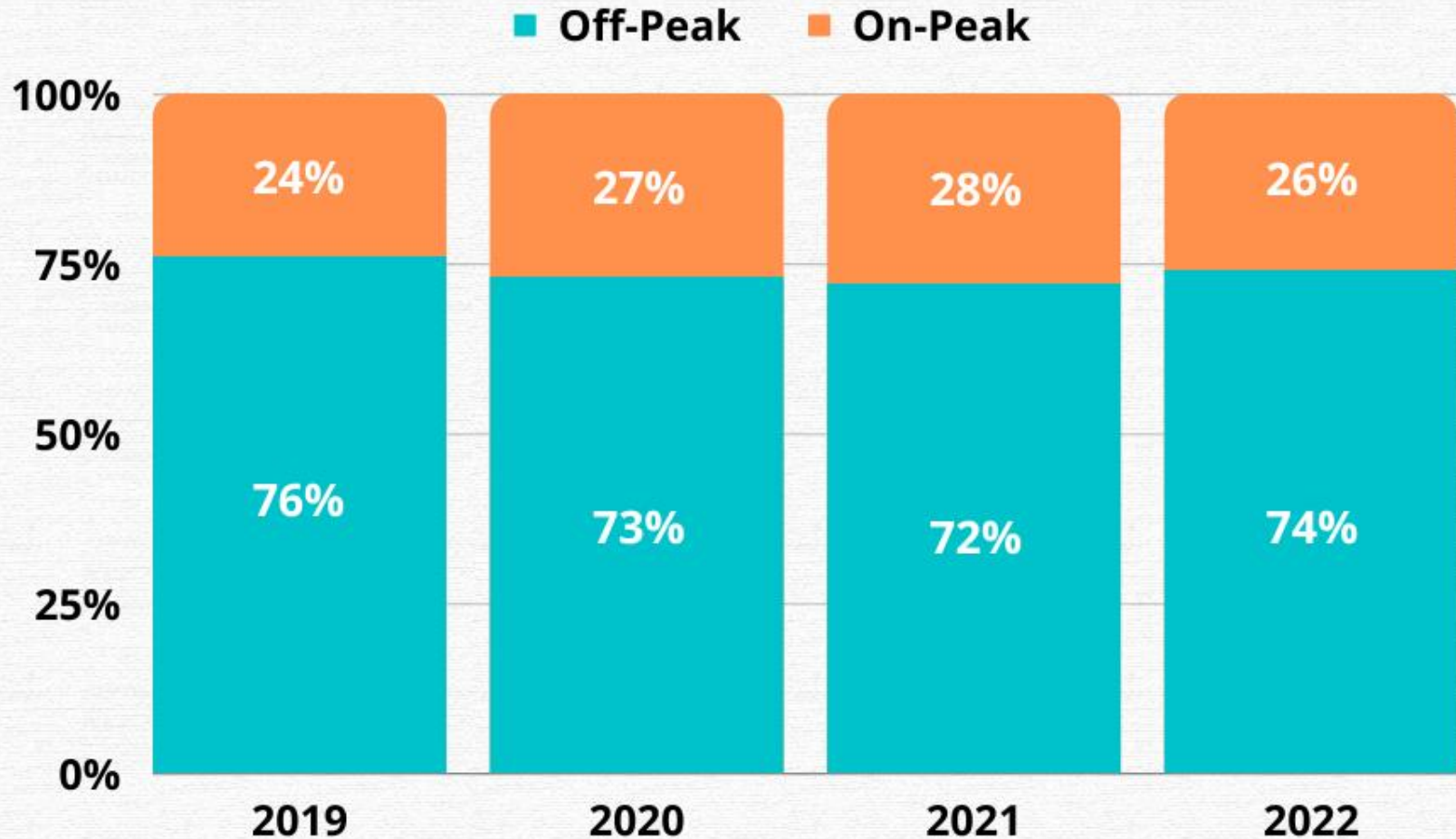
# **Case Studies**

**No-Tech, EV, & Solar Customer**

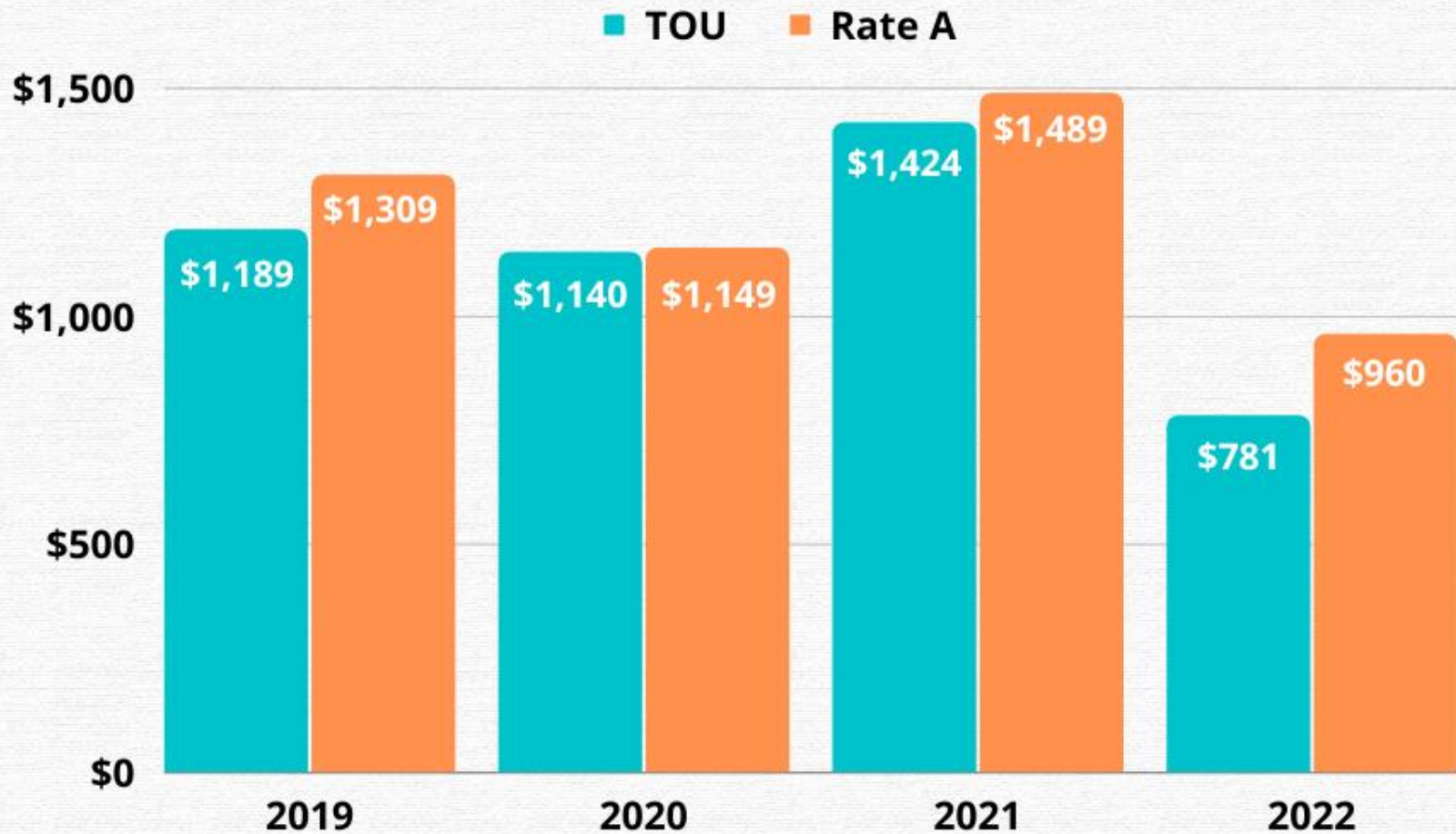
# Cost Comparison No-Tech Customer



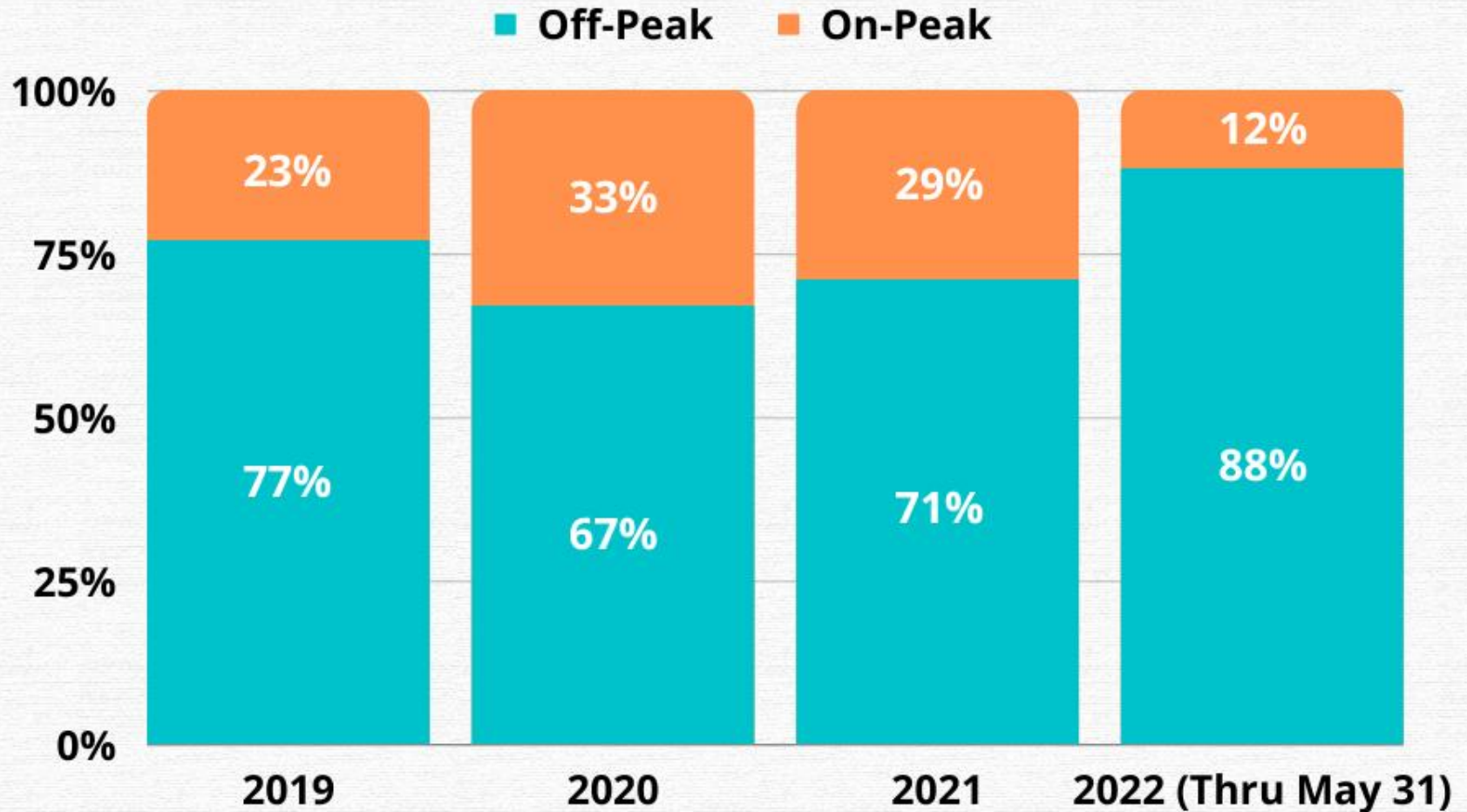
# Usage Breakdown Non-Tech Customer



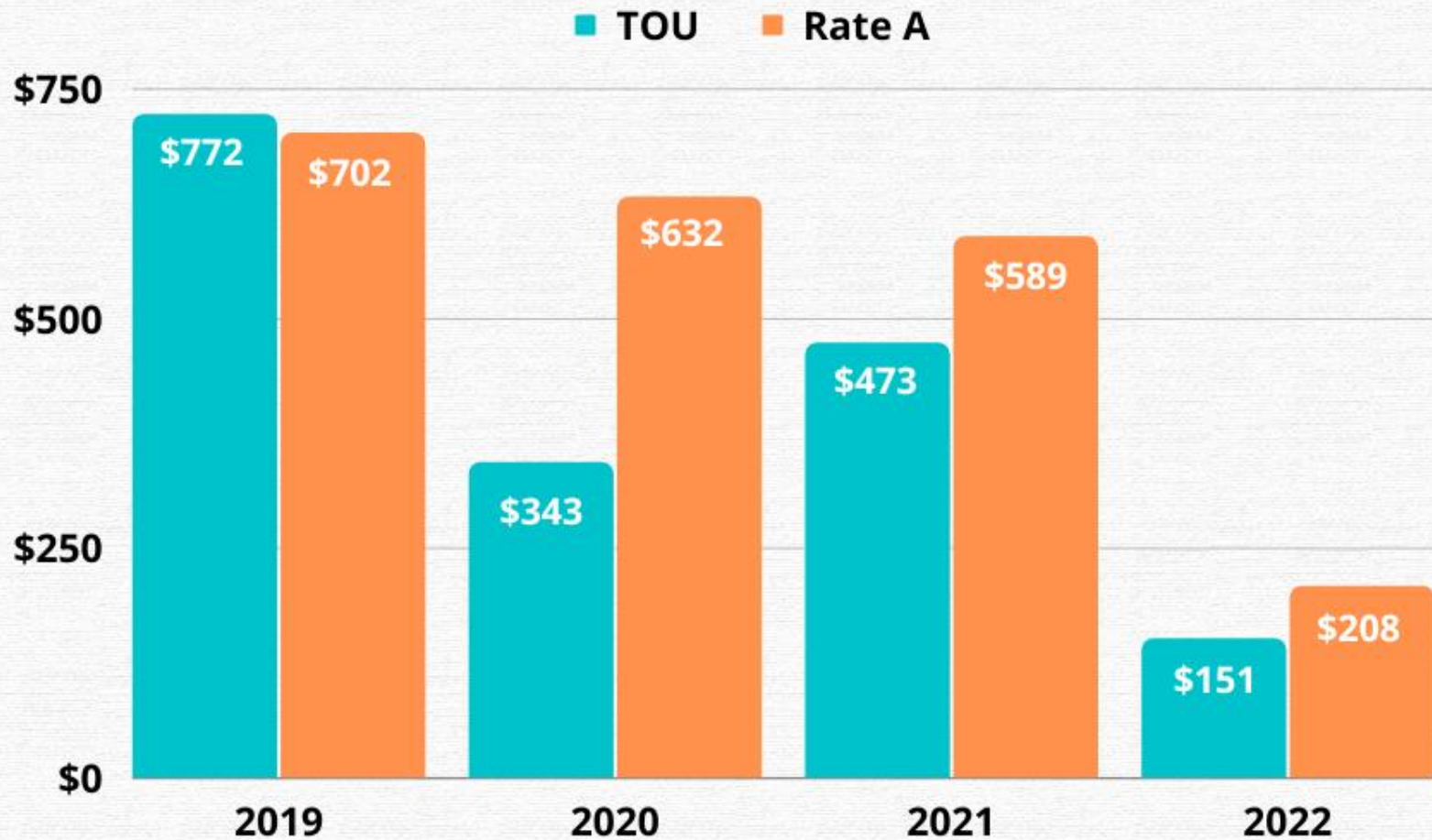
# Cost Comparison EV Customer



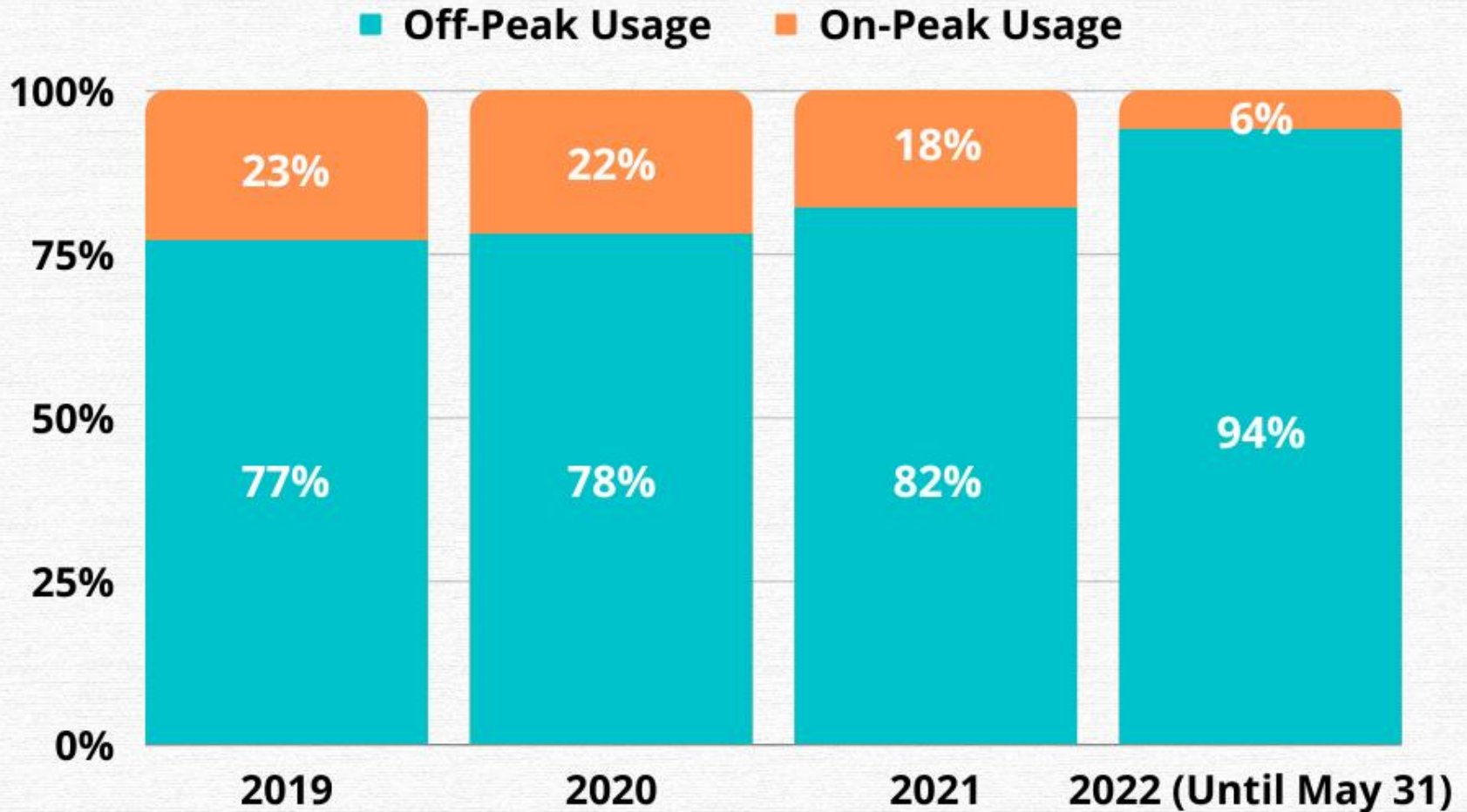
# Usage Breakdown EV Customer



# Cost Comparison Solar BESS Customer

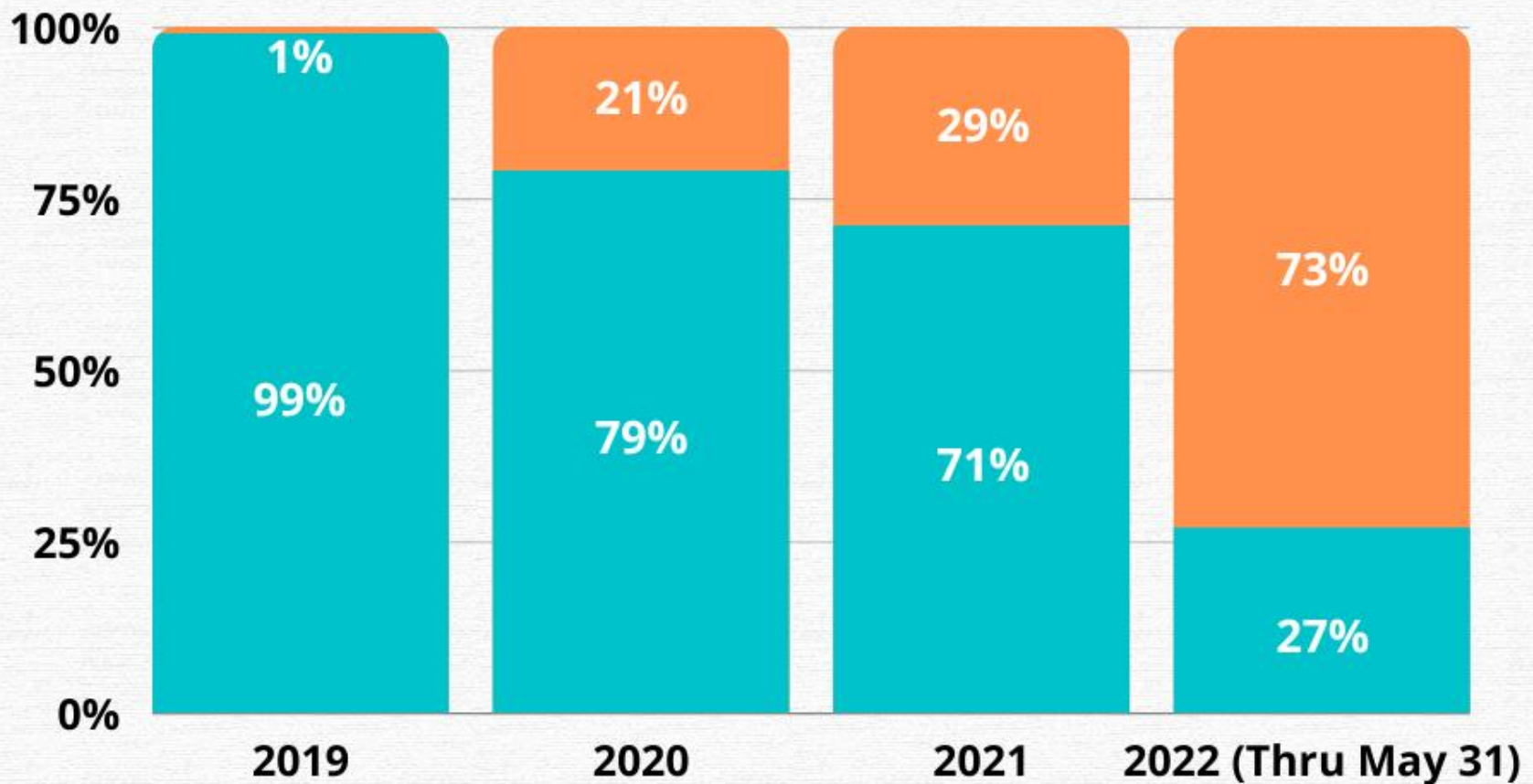


# Usage Breakdown Solar BESS Customer



# Buyback Energy Solar BESS Customer

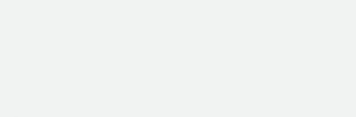
■ Off-Peak Buyback ■ On-Peak Buyback



# Suggestions for Summer

- **Set thermostats slightly higher to your comfort level**
  - Raising your thermostat 2° can save 7kWh per peak period
- **Plug electronics into smart power strips**
  - This allows you to control the consumption of your non-smart devices
- **Grill outside instead of using your oven**
  - Running your oven not only uses more energy, it warms your kitchen even more
- **Use indoor fans instead of A/C**
  - And remember – fans cool people, not rooms!

**Questions?**



- **TOU Rate fridge magnets are still available to participants.**
  - Email [timeofuse@belmontlight.com](mailto:timeofuse@belmontlight.com) for details
- **Set up a consultation with Ben at any time during office hours.**
  - Talk about TOU Pilot Program or anything energy-related

<https://calendly.com/bthivierge/>

- **June 2022 begins the Summer season for the Pilot Program**
  - Rates have been adjusted
  - Participants will be billed for summer rates beginning with the bill received in July
  - Summer runs through September 2022
- **Q2 Webinar to come in September**
  - Look for an email w/ survey a month ahead of time

# Contact Us

[www.BelmontLight.com/timeofuse](http://www.BelmontLight.com/timeofuse)

[TimeOfUse@BelmontLight.com](mailto:TimeOfUse@BelmontLight.com)