

Customer Engagement... Who Cares?

May 23, 2019





Strategic Potential, LLC

# Utility Initiatives and Apogee Solutions



Engagement and Communications



**Rate Transformation** 



Self-Service and Cost Avoidance



**Customer Satisfaction** 





#### Revenue Enhancement

- Market Place
- Beneficial Electrification



**Demand Response** 



Distributed Energy Resources



Low and Moderate Income

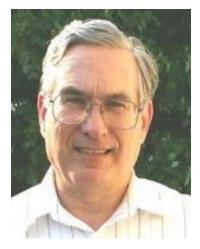
## Presenters





#### **Elizabeth Burroughs**

Engagement Manager, Apogee Interactive, graduated from Georgia State University in 2013 with a BBA in Marketing. Her professional background includes experience with strategic marketing campaigns. As Engagement Manager at Apogee Interactive, her role includes creating and executing outbound communication plans for Apogee's Envoy customers. Elizabeth specializes in digital communications strategies for utilities, and is currently working with more than 20 utilities nationwide. She continues to help energy professionals meet and exceed their customer engagement goals with relevant, personalized, and proactive messaging regarding topics such as rate transformation, high bills, or utility program initiatives. Her proven campaign tactics include sophisticated digital applications that incorporate the utility customer's bill analysis with or without AMI data. Once the customer's data is analyzed the information is then selectively distributed to in the form of video, text, email, and where appropriate, utility social media.



#### Strategic Potential, LLC

#### **Dan Waintroob**

Owner Manager, Strategic Potential LLC., has more than 40 years' experience working with energy companies and end users to meet their strategic and tactical goals. He is an expert in how to develop and use consumer energy utilization data as well how to rapidly design and implement projects. He has been involved with numerous energy service projects for both commercial and industrial endeavors. Under his direction, over 1.5 million customers received energy billing analysis and some 20,000 commercial energy audits were performed. Recently, he led a number of innovative energy efficiency programs for in Illinois, Pennsylvania, North Carolina and Michigan. In addition, with DNV GL (formerly KEMA) he played a key role in the development, start-up and oversight of a number of C/I programs on behalf of energy utilities in the mid-west, northeast and southeast and the startup of program offices for programs with \$multi-million budgets and aggressive goals.

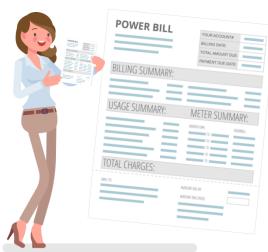
# The 3-Rs of Apogee





Program Lists
Bill Explanation
Service Messaging





Program Lists
TOU
Demand





Program Lists
Beneficial Electrification
Recommendations
Online Store

# Agenda

- Mega Trends
- Virtual Assistants
- PVs
- Customers like Energy Efficiency
- Energy use is changing
- Tailored Engagement
- Bill Explanation
- Demand Response and Rates Communication



# Customer Digital Engagement





#### My Career History in Two Pictures (Digitalization is NOT New)

Residential Auditing Tool in 1980



"A Room Full of Mainframes" now



#### A Few Words About My Experience

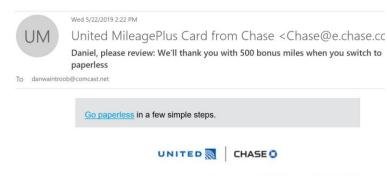
- Been in the energy space for a long time: Cranston CAP solar, Mass Save start-up, Xenergy, Aspen Systems, KEMA (now DNV GL)
- Have launched programs in throughout with strong digital with the following results:
  - 1.5 million Recaps (residential analyses) in Canada
  - 100's thousands commercial industrial audits using Xencap
  - DSM programs (both energy efficiency and demand response) meeting goals from coast to coast
- Energy services strategies in diverse environments (PRC, Mexico, Senegal, Ghana)
- Assessment of various information systems in power markets
- Currently independent consultant and adjunct faculty at SNHU Business

## Food for thought – what to the businesses below have in common?

All have dropped in EBITA multipliers according to a business broker I know

- Printing
- Copy Machines
- Commercial & Photo Processing
- Book Stores
- Department Stores

Hint from email I received yesterday as to why





LIMITED-TIME OFFER:
WE'LL REWARD YOU WITH 500 BONUS
MILES WHEN YOU GO PAPERLESS BY
6/1/20191

#### Online experiences have transformed everything

- According to PEW 94% of those 18 to 29 have a smartphone contrasted to 46% aged 65+
- Today one-in-five American adults are
   "smartphone-only" internet users –
   meaning they own a smartphone, but do
   not have traditional home broadband
   service. https://www.pewinternet.org/fact-sheet/mobile/
- Ecommerce represented 14.3% of total retail sales in 2018, according to Internet Retailer's analysis.

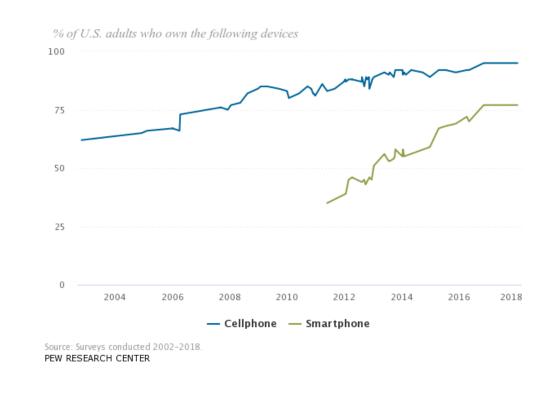
https://www.digitalcommerce360.com/article/us-ecommercesales/

 Mordor Intelligences predicts that smart (Wifi enabled) thermostats will be a \$2.2 billion market by 2024

https://www.mordorintelligence.com/indus try-reports/smart-thermostat-market

# **MEGA Trends**

#### Markets in Transformation



#### Virtual Assistants are Gaining Traction.

Online experiences are transforming businesses in all sectors

In a May 10<sup>th</sup> blog (https://blogs.oracle.com/utilities/how-virtual-assistants-will-completely-change-your-utility-world)

Jessica Lin, Senior Solution Manager, Social Impact, MIT wrote in an article: How Virtual Assistants Will Completely Change Your Utility World

- "Because nearly one in five U.S. adults today have access to a smart speaker. (That's nearly 50 million U.S. adults with the capability to seamlessly reach out to their virtual assistants to access key insights.)
- Because over half of <u>US broadband households</u> will likely have a smart speaker with a voice-based personal assistant by 2021. ...
- Because 60% of smart speaker <u>owners surveyed</u> said that they're "probably" or "definitely" interested in a utility app that makes use of voice-activated skills."



<u>This Photo</u> by Unknown Author is licensed under <u>CC BY</u>



# PVs are gaining Traction

According to our government:

Since 2008, U.S. installations have grown seventeen-fold from 1.2 gigawatts (GW) to an estimated 30 GW today. This is enough capacity to power the equivalent of 5.7 million average American homes. Since 2010, the average cost of solar PV panels has dropped more than 60% and the cost of a solar electric system has dropped by about 50%.

https://www.energy.gov/eere/solarpoweringamerica/solar-energy-united-states

- See fastcompany.com on Community Solar
- May 12, 2019 issue of the **Boston Globe** (home section) wrote that 6,000 residential solar arrays installed in 2018 with a "average payback" of 6 years (H2) and 4.1% premium when selling (p H1).

## **Customers Like Energy Efficiency and Renewables**

- OSRAM Survey showed majority of those surveyed "excited" about phase out of inefficient bulbs (2011)
- Per <a href="www.architectmagazine.com/">www.architectmagazine.com/</a> "90% of respondents expect to cut back electricity usage, or at least maintain the same level as in the previous year."
- According to a poll by the Solar Industries association: 76
  percent of voters and 87 percent of opinion leaders think their
  utility should deploy more solar power

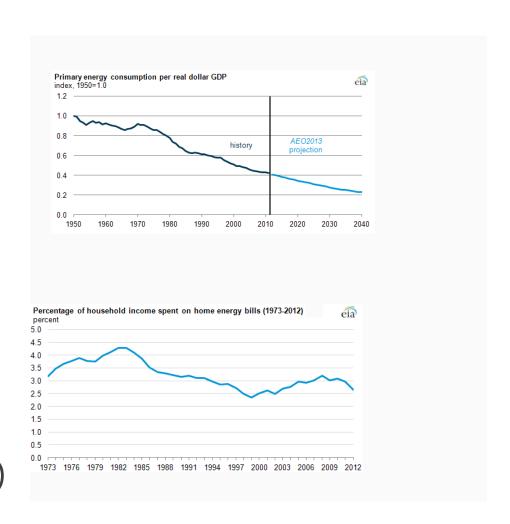
## Business Press Featuring Companies With Smart Apps and Smart Tech



- WSJ May 13, 2019 "In the lean years following the financial crisis, **Citigroup Inc.** made an unintentional bet on the future of banking and it is starting to pay off. (page B1)
- "Last Thing" in the May 13 issue of **Bloomberg Businessweek,** Honeywell's \$1.5 billion
  acquisition of Intelligrated in 2016 is one of the
  rate large, technology-focused deals that's
  been a smashing success."

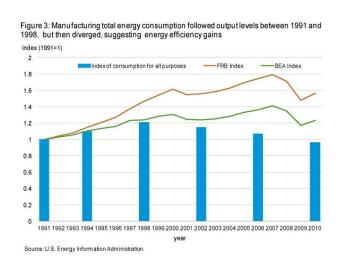
#### Trends Specific to Our Industry

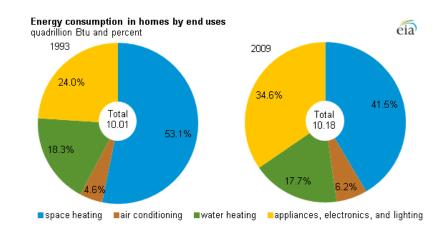
- Energy consumption per \$ of GNP continues to trend down
- Energy costs as a percent of household expenses also trending down
- The generation mix is changing in 2015 natural gas surpassed coal in generation
- Wind is now at 6% with a number of utilities making plans to use much more
- EIA predicts only 22% of generation will be from coal by 2040 (that may be high)
- Nuclear plants are retiring as well (e.g. TMI)

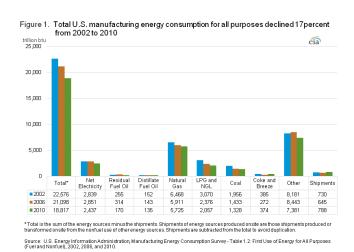


## **Usage Patterns Are Changing**

- HVAC no longer the majority household use
- Industrial consumption is falling
- The building space per commercial employee is decreasing







#### Numerous Apps are out there

- Examples of tracking apps referenced on the Web (no No endorsements ☺)
  - 1. Kill-Ur-Watts free
  - 2. Energy Tracker \$.99
  - 3. Wiser EMS free
  - 4. Energy Cost Calculator
  - 5. Nest Mobile
  - 7. Total Connect Comfort by Honeywell
  - 8. Green Outlet
  - CodeGreen Energy
  - 10. Light Bulb Finder

(taken from: https://www.servicechampions.net/blog/the-7-best-energy-efficiency-apps-for-your-smartphone-and-a-greener-lifestyle/)



About 624,000,000 results (0.69 seconds)

#### Similar sites:

https://smallbiztrends.com/2017/08/mobile-apps-to-help-you-reduce-energy-costs.html

https://money.usnews.com/money/blogs/my-money/articles/2016-04-11/8-free-apps-that-help-you-cut-energy-consumption-and-costs

https://earth911.com/eco-tech/energy-apps/

#### My Key Takeaways from the Trends Described

- Your customers are used to and responding to the "smartphone" society
- They can go on the Web and download numerous apps related to energy savings
- The older methods of reaching the your generations may not work very well anymore
- The investment community continues to be excited by the "Internet" economy
- A more diverse and distributed generation mix seems inevitable with elements as PVs on homes, business and community solar
- The technologies now should allow more effective communications in support of various pricing and demand response programs (e.g. WIFI instead of radio towers)
- Therefore: having a J.D. Power Centric Digital IQ score of 512 on a 1,000 point scale
  offering "one of the worst digital experiences"
  <a href="https://www.jdpower.com/business/press-releases/2019-utility-digital-experience-study">https://www.jdpower.com/business/press-releases/2019-utility-digital-experience-study</a> cannot be good

## Some Suggested Next Steps

Assuming you agree with J.D. Powers – start by assessing your current status (below are "typical" examples )

#### **Strengths**

- Current systems, programs and marketing
- Your customer's attitudes and survey
- Systems your customers have in place (e.g. residential NEST, Building Management Systems)

#### Weaknesses

- Image, PR issues
- Features of your current systems
- Operational issues
- Budgeting

#### **Threats**

- Regulatory pressures
- Change in customer characteristics.
- Competition from power marketers and other sources (including unexpected sources)

#### Some ideas for IOUs and smart apps

- Utility app for tracking use, paying bills and customer service
- Offering and analyzing rate choices
- Automate TOU and/or CPP
- Notifications
- Support load management
- Direct load control
- Security including outage notification

Some benefits beyond customer service would be improved load forecasting, more in-depth customer knowledge and improved public perception as a progressive organization.

## Use Structured Approaches to Design/Redesign Systems

There are a variety of structured approaches that work. A tried an true approach for software is the Kano Method (see <a href="https://foldingburritos.com/kano-model/">https://foldingburritos.com/kano-model/</a> for a good discussion). Other good templates can be found wit the Strategyzer series – Value Proposition Design (published by Wiley 2014) see <a href="https://www.strategyzer.com/">https://www.strategyzer.com/</a> for various templates

Riffing on Kano method follow these steps:

- Start by ranking features according to each customer segments\* needs:
  - Basic needs that must be met
  - Performance needs that will increase satisfaction
  - Delighters or unspoken needs (as an example Energy Star <sup>TM</sup> products were positioned as "premium products" and the dishwashers offered the benefits on not needing pre-rinsing)
- Know what your customers want
  - Typically ease of use is at the top
  - But "coolness" can be up there as well as environmentally friendly

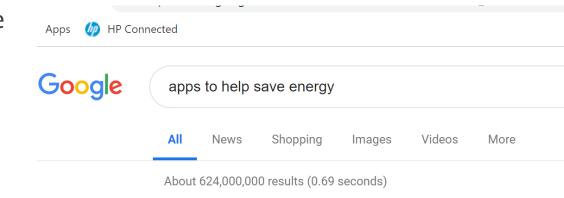
\* Examples of useful sources <a href="http://www.millennialmarketing.com/who-are-millennials/">http://www.millennialmarketing.com/who-are-millennials/</a> and <a href="https://www.pewresearch.org/">https://www.pewresearch.org/</a>



This Photo by Unknown Author is licensed under CC BY-SA-NC

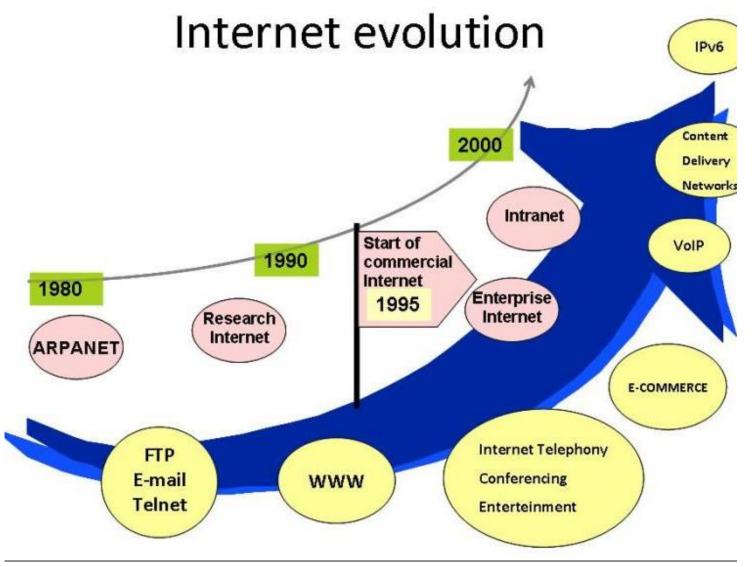
# Once You Defined Your Needs and Priorities

- Keep in mind your solution may be out there (see Google screen shot)
- Seek to leverage your current partner's expertise and content
- As needed round out team with experts in consumer products (e.g. gaming)
- Prototype and test with your customers
- Market and promote using social media as well as traditional means
- Celebrate innovation



## Wrapping Up

- Improving you're your digital engagement with your customers is a business necessity as your customers and markets are evolving.
- Utilities can also can strategic and operational advantages by taking more advantage of the "Internet of Things"



This Photo by Unknown Author is licensed under CC BY-SA-NC



# ThankYou

Dan Waintroob

603-475-5419

danwaintroob@comcast.net

https://www.energyefficiencystrategies.com/



# Tailored Engagement

# the value of tailored engagement



A concept that has been "pre-accepted" by your target audience, increasing the likelihood of success

# RESULT

- Value
- Relationships
- Empowerment
- Operational Goals
- ROI



## What it has looked like

#### Dear Customer:

The energy management systems of our company noticed an increase in your daily and/or hourly kilowatt-hour (kWh) usage above your current pre-set threshold(s).

Account Number: XXXXXXXXX

Usage: 13.0

Date/Time: 4/1/19 12:00 AM - 4/2/19 12:00 AM

Account Number: XXXXXXXXX

Usage: 1.0

Date/Time: 4/1/19 1:00 AM - 4/1/19 2:00 AM

Account Number: XXXXXXXXX

Usage: 0.0

Date/Time: 4/1/19 2:00 AM - 4/1/19 3:00 AM

Account Number: XXXXXXXXX

Usage: 1.0

Date/Time: 4/1/19 3:00 AM - 4/1/19 4:00 AM

Account Number: XXXXXXXXX

Usage: 1.0

Date/Time: 4/1/19 4:00 AM - 4/1/19 5:00 AM

#### ENERGY FORECAST - ELECTRIC COST

#### YOUR PROJECTED ELECTRIC COST FOR THIS WEEK IS \$88



#### Thermostat Savings

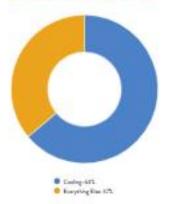
Adjusting your thermostal is an easy way to Save \$\$\$. Use the (hermostal below to see how much.

 Click the up or down bullians to adjust your thermostel and see your sovings?

Updale My Home Profile Settings



#### Weekly Electric Cost Breakdown



# What it could look like...

You have used about \$130 worth of electricity in this billing cycle, and your total bill is projected to be between \$197 and \$267. Learn more...

Your bill for the same month last year was \$107.



<sup>\*</sup>This is an estimate based on your past energy usage and the weather forecast. If you have made changes in your usage patterns like vacations, guests or how you use major appliances it will affect the accuracy of the estimate.

Here is some information on how the weather is affecting your bill...



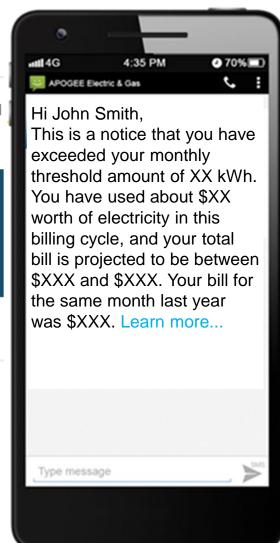
#### **Energy Use**

76% of your energy used this bill cycle is estimated to be for heating. Learn more...



#### Weather

We estimate that your neighborhood has 31 days that require heating this bill cycle. <u>Learn</u> more...

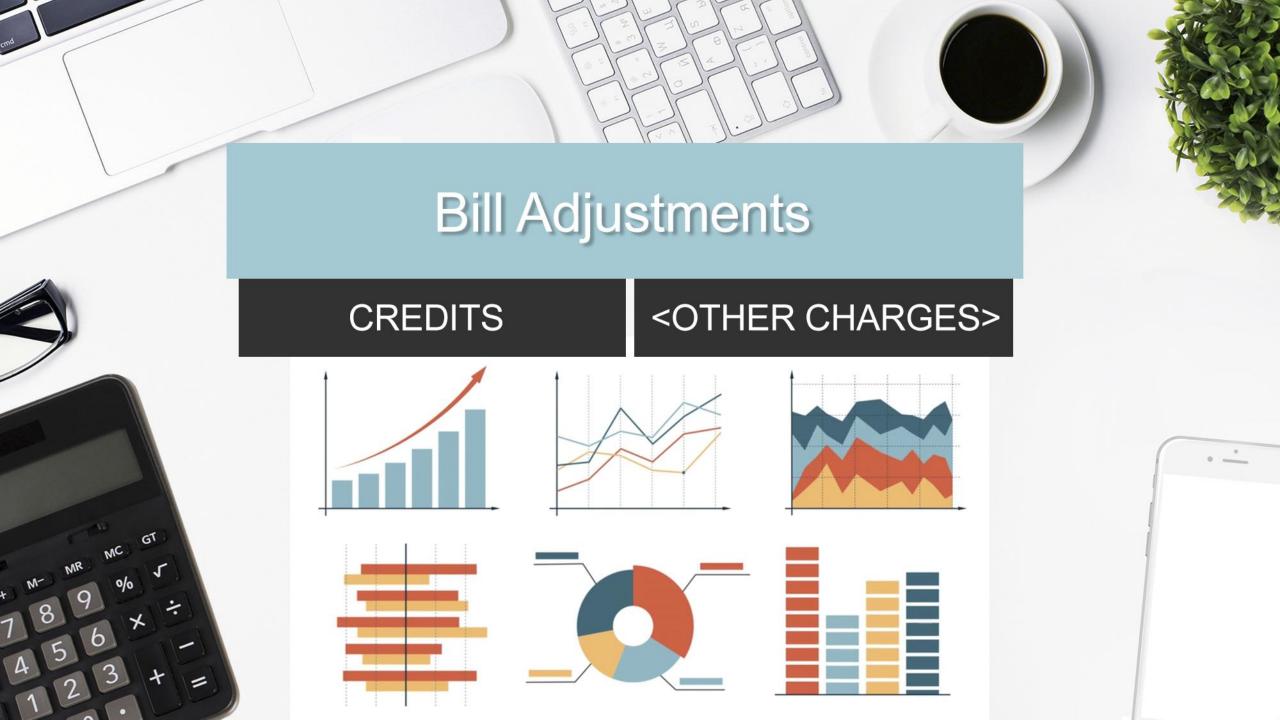


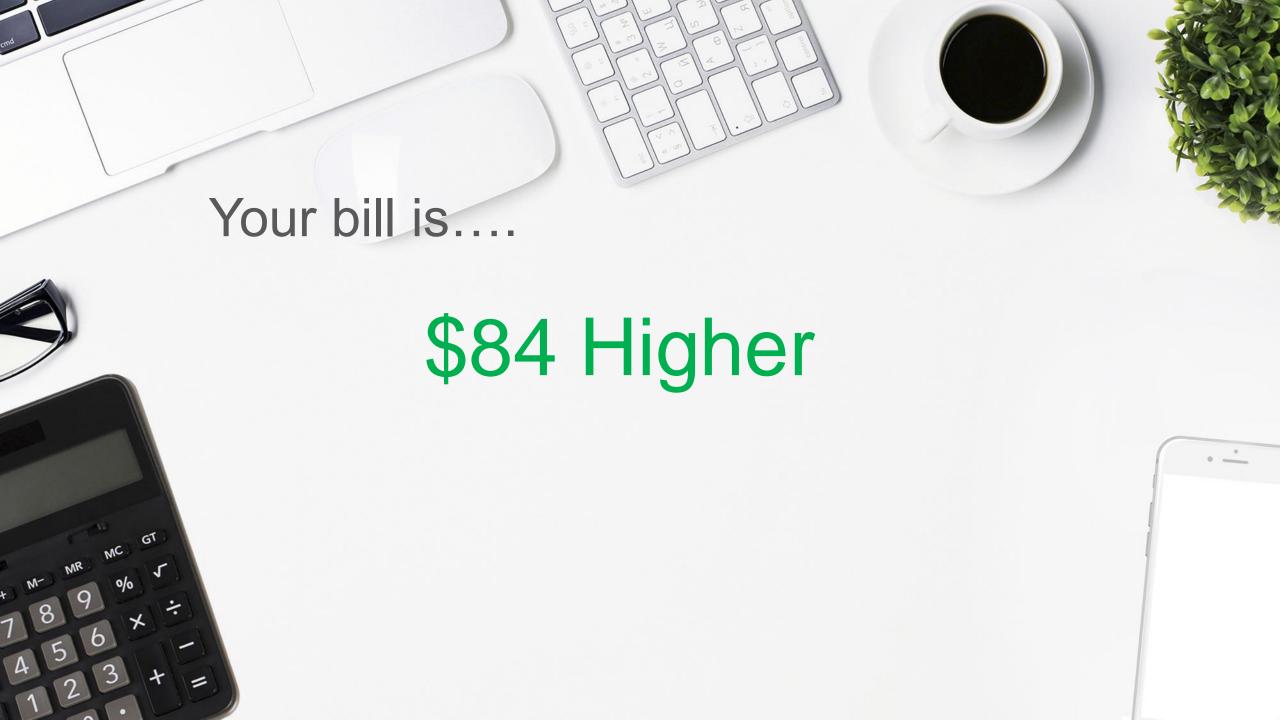


Video Bill Explanation: Proactively explain bills before customers call



Video Bill Explanation: Proactively explain bills before customers call





# Your Bill Summary





7.4 F Colder \$63 more



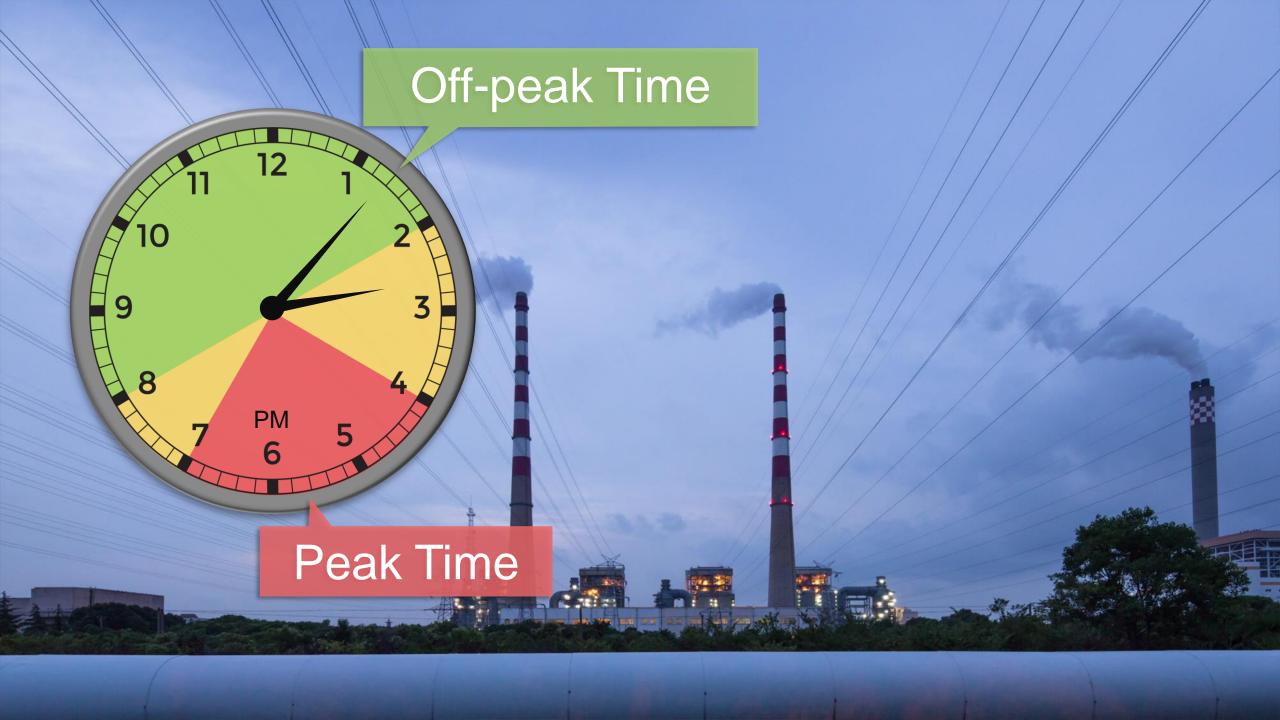
2 Fewer Days \$11 less



\$32 more



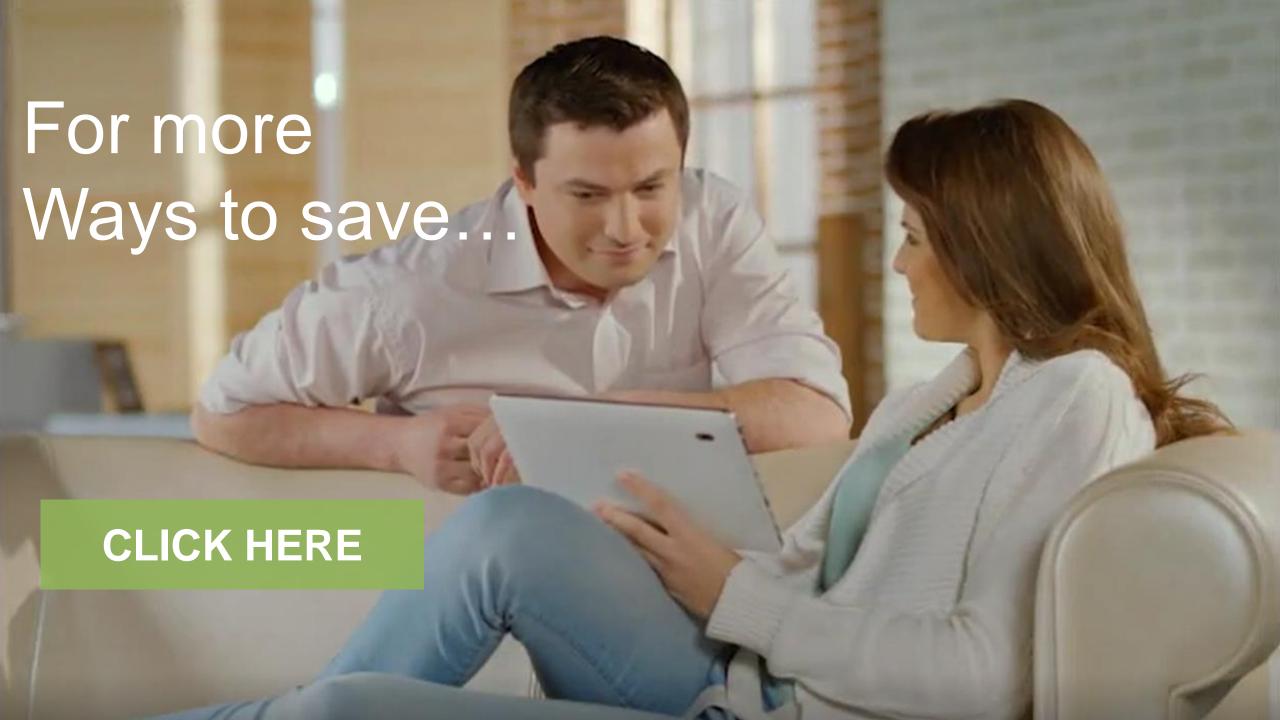












# 2018 Analytics

#### Unique Open Rates

- Mid-cycle Alerts 42%
- Video Bill Explanation 44%
- Summary Report 46%

#### Unique Click Rates

- Mid-cycle Alerts 3%
- Video Bill Explanation 18%
- Summary Report 14%



• Improving customer engagement through subsequent messages' CTR



# Project Overview:

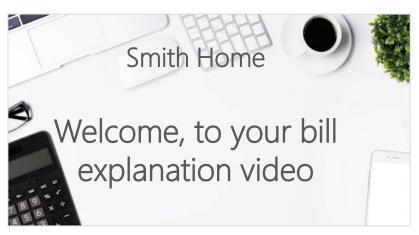
- 500,000 accounts processed
- 120,000 emails
- 3 unique messages

# Goals:

- Perception
- Call Center
- Customer Engagement









- 51,000 emails
- 34% open
- 5% CTR

+58%
perception

- 33,000 emails
- 49% open
- 14% CTR

87% useful

- 36,000 emails
- 40% open
- 16% CTR

**15% fewer calls** regarding high bills

# Questions









# Strategic Potential, LLC

Contact us: 678-684-6801 or <a href="mailto:info@apogee.net">info@apogee.net</a>