# Pacific Power Keeping Warm Workshop

Helping Customers Manage Costs by utilizing Smart Meter Technology

## March 14, 2019















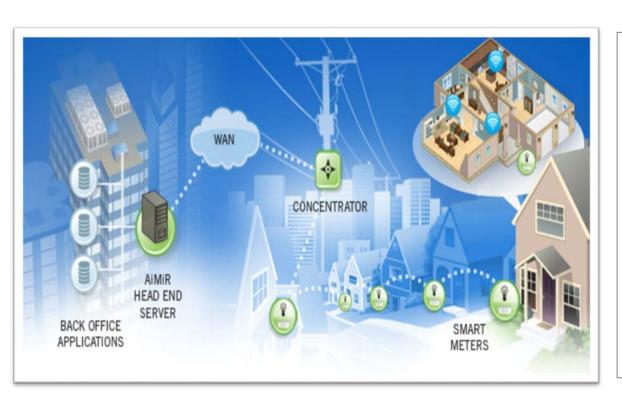
We're here for our customers, every step of the way.

- From high tech startups to young families just starting out, your dreams drive our innovation
- We're investing today in the technology and infrastructure to power the next 100 years
- We never stop looking for new ways to deliver the most affordable, sustainable, reliable electricity
- We're committed to protecting and preserving the land we all call home

Helping you power your greatness.



# AMI (Advanced Metering Infrastructure) - an integrated system of smart meters, communications networks, and data management systems that enables two way communication between utilities and customers.



#### Project Scope:

- Installation of 590,000 smart meters in Oregon In Progress
- Construction of a Field Area Network Completed
- Integration of new AMI software with legacy systems Completed
- Implementation of customer energy usage web pages Completed

## Meter Installations - Schedule

Area	Date	Status
Willamette Valley	January 2018 – May 2018	Complete
Lincoln City	February 2018 – May 2018	Complete
Klamath Falls	May 2018 – June 2018	Complete
Crescent City, CA	June/July 2018 – September 2018	Complete
Yreka/Mt Shasta - CA	September 2018 – November 2018	Complete
Medford	June 2018 – September 2018	Complete
Grants Pass	September 2018 – November 2018	Complete
Coos Bay	November 2018 – December 2018	Complete
Roseburg	December 2018 – January 2019	Complete
Portland	January 2019 – April 2019	In Progress
Astoria	February 2019 – April 2019	In Progress
Hood River	March 2019 – May 2019	In Progress
Central Oregon	May 2019 – July 2019	Not Started
Eastern Oregon	June 2019 – September 2019	Not Started

## **Smart Meter Benefits**

Smart Meters enable Pacific Power to continue moving toward a smarter grid and be a more responsive, efficient and resilient partner.

The Smart Meter rollout is a part of our larger, longstanding effort to upgrade and modernize the power grid. Smart Meters will help Pacific Power respond rapidly to outages, reduce operational costs (saving money for our customers) and set the stage for a cleaner, greener energy systems. For over 100 years, Pacific Power has balanced a bold, pioneering spirit with a commitment to a reliable, efficient performance. As we roll out these Smart Meter upgrades, we are preparing for another century of community partnership and innovation.

#### Additional Customer Benefits:

- Greater insight into their energy usage, allowing them to make informed choices
- Customers can setup monthly bill thresholds and we'll send them an alert if they start to go over
- Meters are read remotely, allowing customers to start and stop service without scheduling a visit.

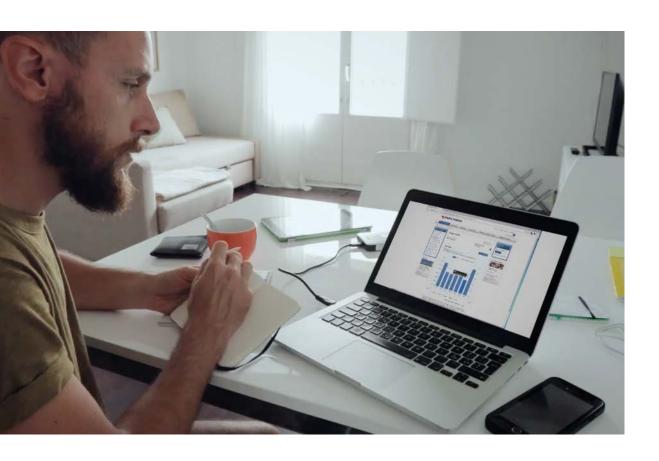
## Tested & proven technology

Smart meters are already used safely and successfully in over 70 million homes

- Use RF but at levels well below the limits set by the FCC
- And much lower than other common items: cell phones, baby monitors and microwave ovens
- Fire concerns were related to early model smart meters







Visit: <a href="https://www.pacificpower.net/ya/smart-meters/MeetYourSmartMeter.html">https://www.pacificpower.net/ya/smart-meters/MeetYourSmartMeter.html</a>

## Smart features for you

Your new smart meter comes with some exciting features.

 Sign in to your online account to see your daily energy use

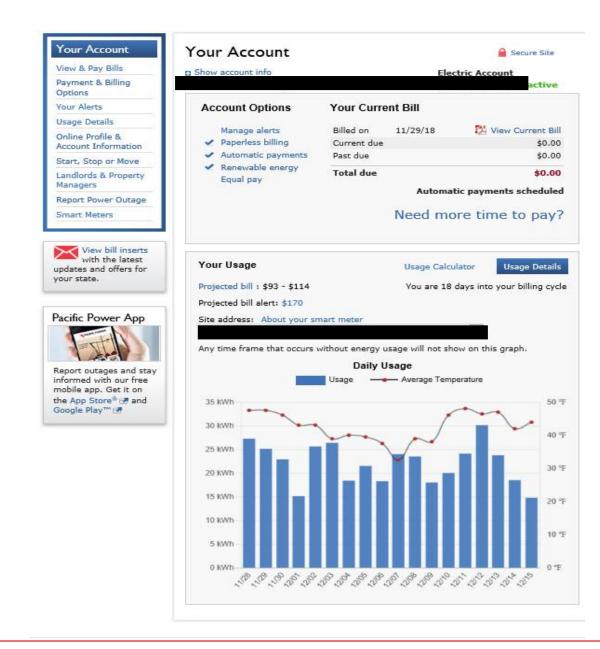
www.pacificpower.net/smartmeter

- Access tips and tools to give you more control over your monthly bill
- Connect to conservation efforts like paperless billing and Blue Sky<sup>SM</sup> renewable energy

## Web – Your Account

- Daily usage is displayed 7 days after bill is generated, until then, last 13 months of usage is presented.
- Average temperature is presented in both daily and monthly view.
- Customer can select from any meter on their account. Up to two years of data are available to view.

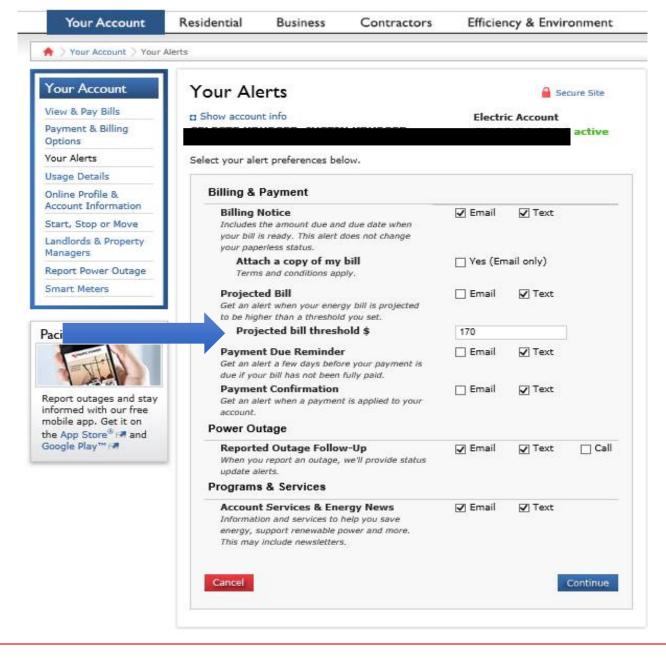
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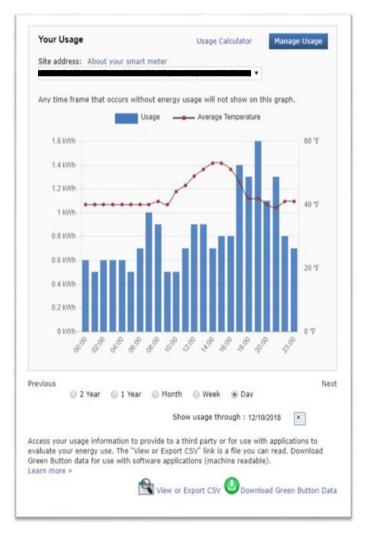
## **Your Alerts**

Smart Meter Customers see the option for projected bill

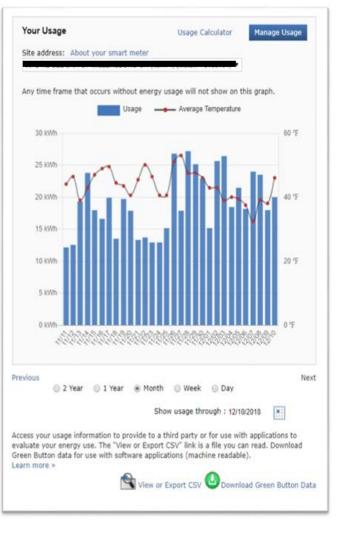
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## View Energy Usage







Day (By Hour) Week Month

# View Energy Usage (For non-residential) Customers)

- 15 minute intervals for nonresidential meters
- 1 hour intervals for residential meters





## Manage Usage

Allows you to manage your projected bill alert and review your projected bill

## Manage Usage



Show account info

KENNETH L RICHARDS

Electric Account Home

- Manage your projected bill alert
- Review your projected bill

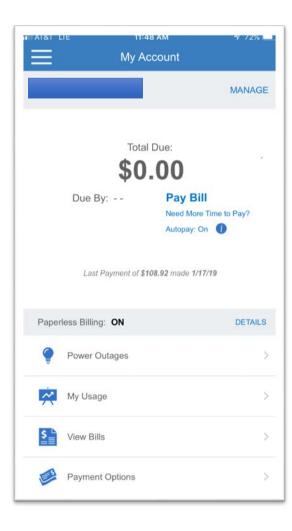
Projected bill \$111 - \$123



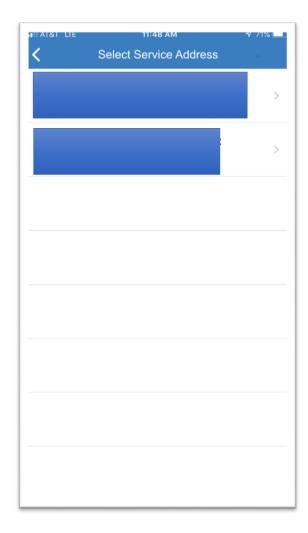
You are 29 days into your billing cycle

- Ways to save
- Discounts and cash incentives for energy upgrades
- Online tools to evaluate energy use
- Energy assistance and weatherization services

## Mobile – Your Account

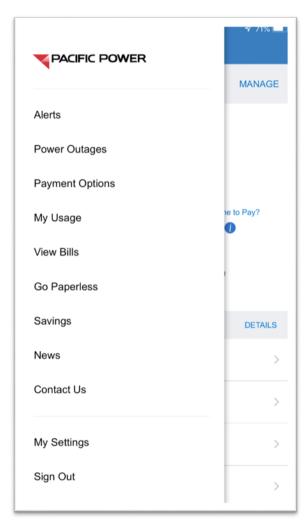


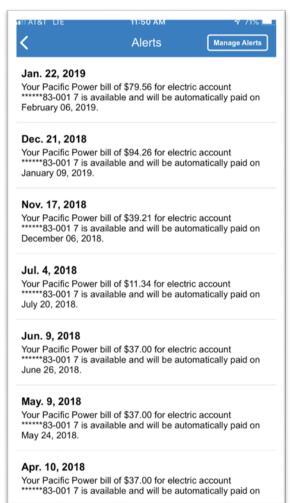
Home Screen – My Account

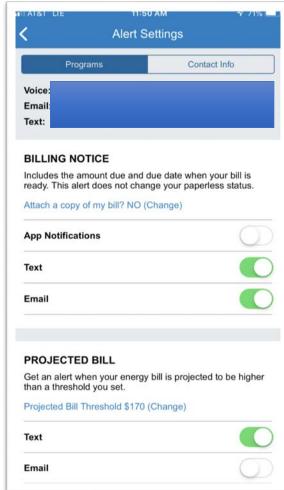


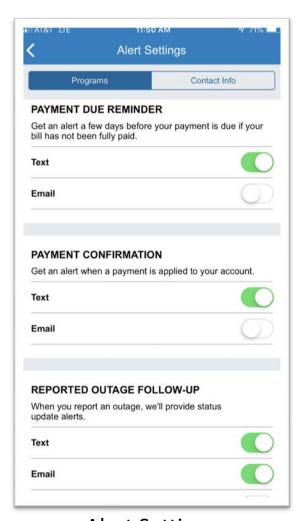
**Select Service Address** 

## **Alerts**







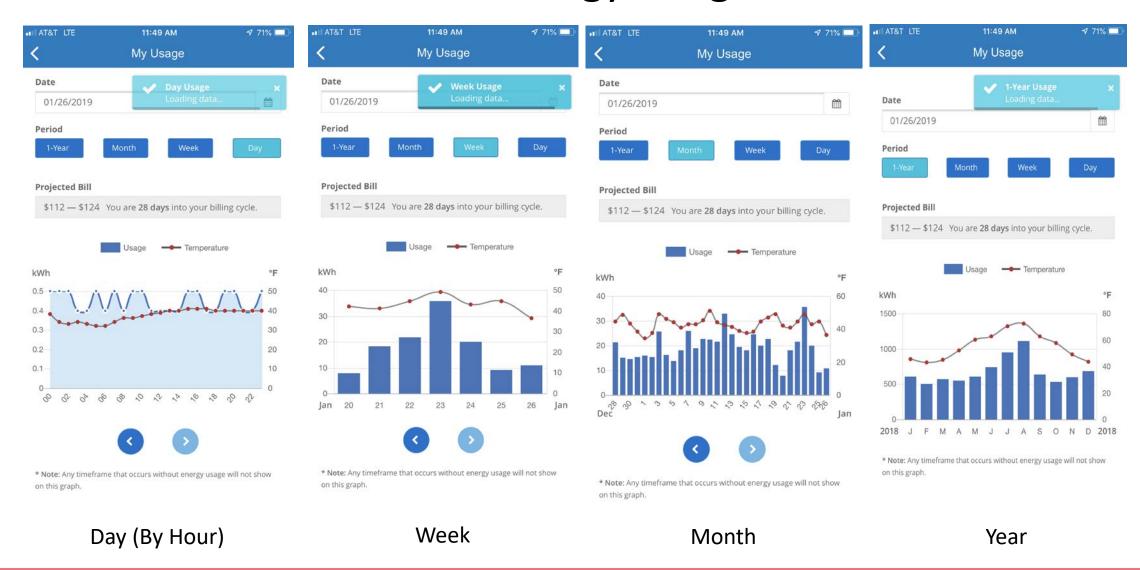


Set Alerts Alerts Sent

Alert Settings

Alert Settings

## View Energy Usage



#### SETTING UP YOUR ACCOUNT

To get started, if you don't already have one, you'll need to sign up for an account on the Pacific Power website (www.pacificpower.net) or on our mobile app.

The process is quick and easy to do:

- Enter your name
- . Create a user ID and password
- · Enter your email address
- . Check your email inbox for a confirmation link
- · Return to enter your Pacific Power account number (found on your bill)

And that's it! You now have access to many energy and money-saving options you may not have been aware of!



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#### PAYMENT OPTIONS

DISCOVER SEVERAL OPTIONS FOR BUDGETING



#### PAPERLESS BILLING

Sign up to conveniently receive bill notifications, payment confirmations, past-due notifications and copies of your bill in your email inbox.

#### AUTOMATIC PAYMENT

You can sign up to have your bill paid automatically from your checking or savings account on your due date.

#### **EOUAL PAY**

For more predictable billing, we can average your last 12 payments into equal monthly charges.

#### PREFERRED DUE DATE

Request a due date that works best for your monthly budget. We will do our best to accommodate your request.

#### NEED MORE HELP?

For more information, visit www.pacificpower.net/pay



MORE INNOVATION **MEANS MORE SAVINGS** OPPORTUNITIES.

Did you know Pacific Power offers a variety of ways to look at your energy usage and account information? We also offer several easy-to-use tools to guide and advise you on how to use that information to be more energy efficient and lower your bill.

These tools are all available through your personal Pacific Power account homepage.

### STAYING INFORMED SAVING MORE

Near real-time financial and service tools are just a click away.

#### PROJECTED BILL

To help inform your monthly budget, we provide an estimated cost of your next bill that is based on an average of your previous usage.

This number is an estimate and cannot anticipate unforeseen jumps in household usage. For more information visit www.pacificpower.net/TBD

#### BILL THRESHOLD ALERT

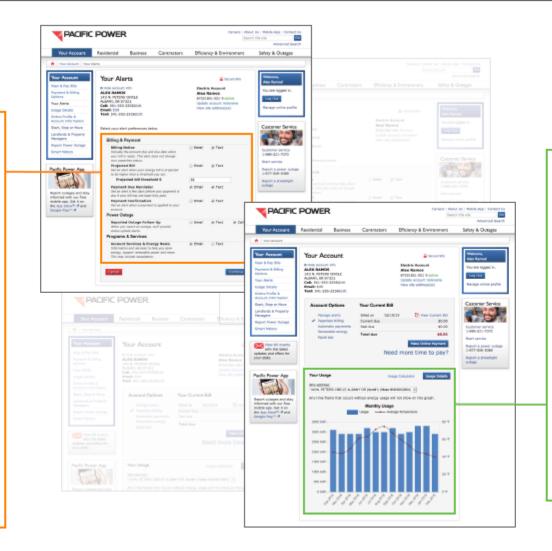
Set a monthly dollar threshold for your bill. If your projected bill nears that amount, you will be alerted, providing you the opportunity to make adjustments to your daily usage.

#### BILLING & PAYMENT ALERTS

You can sign up for an alert when your bill is ready, as well as reminders for when your payment is due and confirmation, once it has been paid.

#### **OUTAGE UPDATES**

During an outage, receive alerts letting you know when power is expected to be restored and when it is actually back on.



#### MANAGING YOUR USAGE

Easy-to-read yearly, monthly, daily and hourly usage charts allow you to see how much energy you are using and when. Use these to determine how you may want to adjust your usage, saving you money in the short and long term. For instance:

#### Heating and Cooling Adjustments

A spike during the day, while no one is home, could mean your furnace or air conditioner is turning on automatically. Programming it to remain off during the day may save you energy and money.

#### Simple Energy Upgrades

If you notice your usage increases dramatically after dark, take a look at how many and what type of lights you use in your home. Turning off unused fixtures and replacing old light bulbs with energy-efficient LED bulbs can make a dramatic difference.

#### wattsmart®

Visit www.bewattsmart.com to find many opportunities to save big money over time. Discover easy energy-saving tips and a long list of cash incentives for home energy upgrades.

