

REGULAR SESSION –WEDNESDAY MAY 20, 2020

STATE OF KANSAS)
) SS
CITY OF KANSAS CITY)

The Board of Public Utilities of Kansas City, Kansas (aka BPU, We, Us, Our) met remotely in Regular Session on Wednesday, May 20, 2020 at 6:00 P.M. The following Board Members were on the teleconference: Ryan Eidson, President; Robert L. Milan, Vice President; Mary Gonzales, Secretary; Jeff Bryant, Rose Mulvany Henry and Thomas Groneman.

Also on teleconference: William Johnson, General Manager; Angela Lawson, Deputy Chief Counsel; Lori Austin, Chief Financial Officer/Chief Administrative Officer; Jim Epp, Executive Director Water Operations; Johnnetta Hinson, Executive Director Customer Service; Jerry Ohmes, Executive Director Electric Supply; Jeremy Ash, Executive Director Electric Operations; Dong Quach, Executive Director Electric Production; David Mehlhaff, Chief Communications Officer; Dennis Dumovich, Director of Human Resources; Randy Otting, Director of Accounting; Brian Laverack, Director Network Operations and Paul Sprague, Supervisor EMS Maintenance.

A tape of this meeting is on file at the Board of Public Utilities.

Mr. Eidson called the Board Meeting to order at 6:00 P.M. He welcomed all that were listening or viewing the meeting. He stated the COVID 19 Pandemic has resulted in a State of Emergency disaster declared by the Governor which has made it necessary to conduct these meetings using technology instead of in person. Because of this we will not be having a visitor comments section. The public may email or call the BPU with concerns. The Agenda and the presentation may be found on the BPU website. If you are using Zoom, it will appear on your screen. Mr. Eidson introduced himself and the other Board Members along with the GM, and Legal Counsel.

Roll call was taken and all Board Members were present via teleconferencing.

Motion was made to approve the Agenda by Mr. Groneman, seconded by Mr. Milan, and carried.

Motion was made to approve the Minutes of the Regular Session of May 6, 2020 by Ms. Gonzales, seconded by Mr. Bryant, and carried.

Mr. Eidson turned the meeting over to Mr. Johnson.

Mr. Johnson said the UG’s website is reporting out on daily basis events that have taken place within Wyandotte County in regards to the COVID 19 pandemic. As of today there were 1,177 positive cases identified. Of those, there were 70 deaths. Hospital reports 30 active people currently in the hospital and 371 treated and released. As far as BPU statistics, as

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previously reported, we had two employees that tested positive and they have both been released and are back at work. We currently have two employees in quarantine and 43 that were quarantined but have returned back to work.

Mr. Johnson said a lot of staff was in meetings every day on a call with the UG, Health Department, the hospitals and other agencies throughout Wyandotte County. Those calls sometimes include our state and federal legislators. They speak on a regular basis to our national trade associations, area electric utilities and area water utilities. They reach out to other General Manager’s and CEOs to see how things are going. Every Thursday there is a faith based group that meets. The Mayor started that and invited him in about a month ago. That’s the group they speak to because they have huge followings and can get the UG’s and BPU’s information out to the public. They recently started meeting with the NBRs. That’s another group that’s active in the community and it is another way to get information out to the public. We continue to be safe and work to coexist as we battle this COVID 19. They are continuing to monitor the Wyandotte County Restart Plan. He sent a draft of it out to all of the Board Members that day.

Ms. Austin said she had the final reports delivered to the Board. These included 4th Quarter 2019, January 2020, February 2020 and 1st Quarter 2020. She had presented them in the previous Board Meeting on a preliminary basis. They had gone through their audit and gone through that approval so they were ready to finalize. She thought they could approve them all in a group.

Ms. Lawson said that was correct, their one vote would count for all four.

Ms. Austin asked for approval of the four reports.

Motion was made by Mr. Bryant to approve the finalized financials, seconded by Ms. Mulvany Henry and carried.

Mr. Johnson asked Mr. Mehlhaff to give his presentation on the BPU Website. They were still in development for a new design.

Mr. Mehlhaff has a Power Point presentation. (attached)

Mr. Bryant asked about the timeline for the policies. That was one of the things they were pushing to get on sooner than later.

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Mr. Mehlhaff said he has gotten all of the updated policies in the new format. He could put them on right now but they wouldn't be as easy to find. If he had a week's time they would be easier to find on the Mega Menu, broken out by department.

Mr. Bryant asked if he had an expected time line on it for sure.

Mr. Mehlhaff said he didn't have one he could give him right then. It was going to be a lot sooner than later. He wanted to get them on there within the next week to ten days. He would keep them posted.

Mr. Mehlhaff asked if there were any other questions and said they knew how to reach him. He hoped they were pleased with it. They were going to continue to keep working and improving it. There is a lot of traffic on our website, even more now because of COVID. People want to go on there to do business with us rather than coming to the lobby and also people are using this as a way to communicate with us one way or another.

Mr. Johnson said next on the Agenda he would have Mr. Ohmes and Mr. Sprague do an update on our new SCADA system and the improvements that were just rolled out with that.

Mr. Ohmes said they wanted to share some of the features of their new SCADA system. He introduced Mr. Sprague to walk through these new features.

Mr. Sprague gave a Power Point presentation. (attached)

Mr. Johnson had some miscellaneous comments. He said he knew it was important to Wyandotte County and the State of Kansas as a whole, through a lot of their weekly calls, our federal offices, especially our senator's office was asking our local officials to reach out to the public to make sure everybody understands how important it is for all citizens to complete the Census Data Request. Many homes were mailed forms or you can go online and take the survey. Some of the numbers that have been reported currently as of today, Kansas ranks eleven out of all 50 states with about 64% of Kansans completing their forms. Of that, Shawnee County was 67%, Sedgewick County 64%, Leavenworth County 67% and Wyandotte County 54%.

The deadline has been revised due to COVID. It has been pushed out to October 31. They did send it out the other day to all staff internally.

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Board Comments

Mr. Eidson thanked Mr. Johnson, Mr. Mehlhaff and Mr. Sprague for their comments. He was really excited to hear the website was getting closer to be up and running fully and functional in the near future so that was good. As we start to open up Wyandotte County, he asked that we not relax and to continue to social distance. He hopes everyone has a great Memorial Day weekend.

Mr. Groneman thanked everybody for the presentations. They were very informative. He said it appears they were getting more comfortable with this type of meeting; however, he was looking forward to when they could all get back together. He hoped everyone was safe and wished them a great holiday weekend.

Mr. Milan also commented on the excellent presentations. That was something that was well needed. He asked Mr. Johnson how many of the non-essential employees were back to work.

Mr. Johnson said all of our non-essential employees are back to work except the people that are on the quarantine list and there may be two that have some underlying conditions.

Mr. Milan said that was a good report and thanked him.

Mr. Bryant thanked Mr. Mehlhaff for the website update. It was nice to finally see it rolling out. He said he knew the unexpected pandemic has affected a lot of things. He was seeing it in other areas. He also appreciated the SCADA update. It was a deep dive into details of the business but it was important to at least have a good cursory understanding of it. At the end of the day we pay the professionals to make sure everything is up and running well. He said they did a great job. Stay safe and hopefully they would see everyone soon.

Ms. Gonzales had no comments.

Ms. Mulvany Henry echoed the other comments. She thanked Mr. Johnson for the COVID update, Mr. Mehlhaff for the website and Mr. Ohmes and team for the SCADA update. She said she would also echo the President's comments to remind everyone about not getting too lax on what has become our somewhat "new normal" and make sure we continue to listen to the Health Department, utilizing social distancing and washing our hands and doing all the stuff they are telling us to do. She sent a very heartfelt thank you to all the BPU employees and the Employee Foundation for the extremely generous contribution to the WYCO Strong, a

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community helping a community effort to raise funds for Avenue of Life. That really meant a lot so she appreciated it.

Motion was made to adjourn the meeting at 6:42 P.M. by Mr. Groneman, seconded by Ms. Mulvany Henry and carried.

ATTEST:

*NOT signed by
Secretary due to Pandemic*
Secretary

APPROVED:

[Signature]

President

*Jenny Burley-Krenzer
EXECUTIVE ASSISTANT
6/1/20*

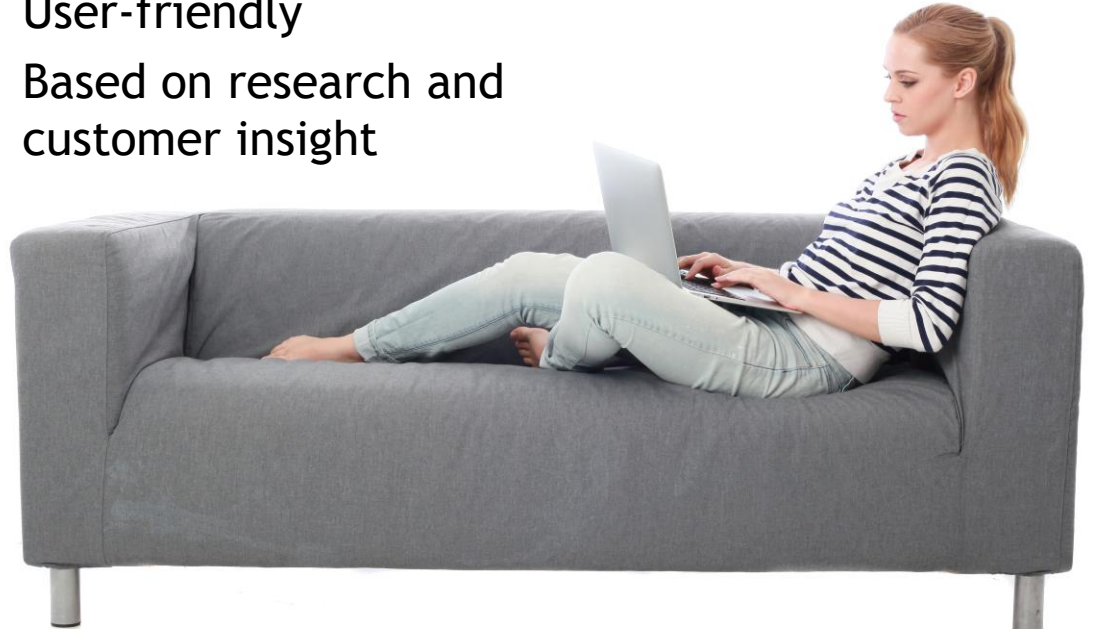


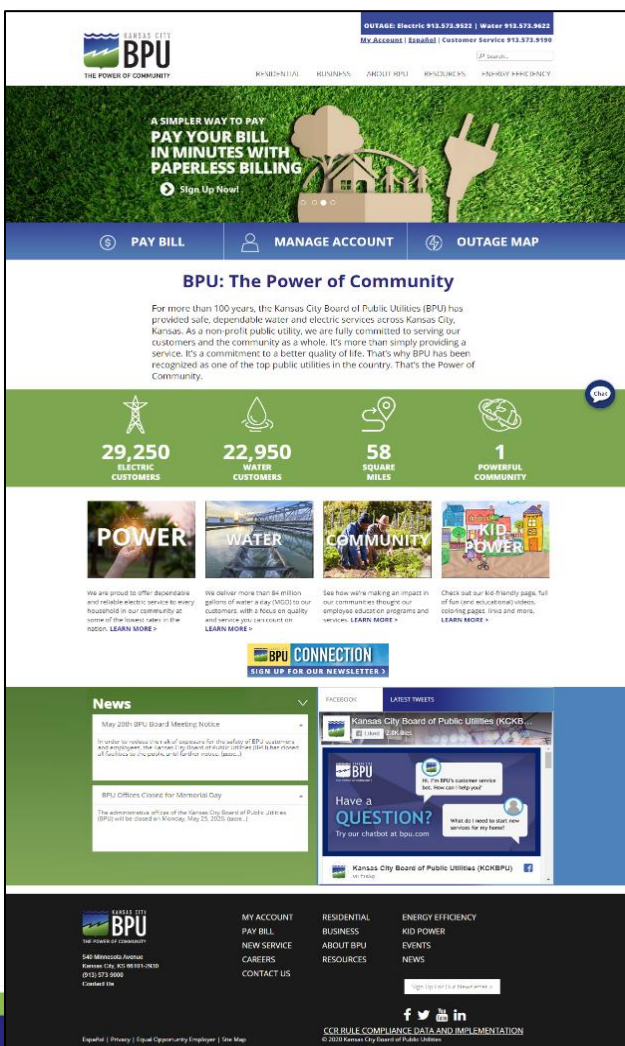
BPU.com

Website Refresh/Development

Refreshed BPU.com

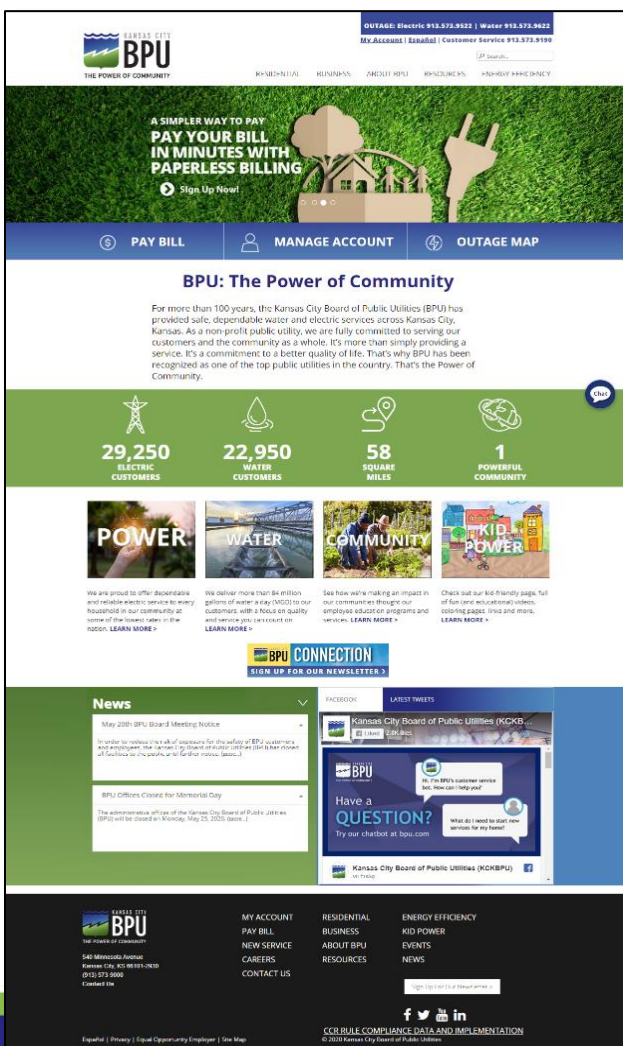
- New redesigned website
 - More efficient
 - Engaging
 - Informational
 - User-friendly
 - Based on research and customer insight





Revamped Site

- Improved UI/UX
- Brand story evident & supported in every part of the design
- Faster load time



Look & Feel

- Smarter use of fonts and buttons to enhance and simplify interaction
- Consistent brand voice and design to clarify and reinforce brand message
- Optimized photos and design elements to enhance look and allow for faster loading
- Cohesive color scheme, text and backgrounds to support brand standards
- Bold use of “The Power of Community” theme throughout to welcome users and help them feel empowered



Enhanced Utility Navigation (Callout pointing to top right navigation links)

Retoiled Site Nav (Callout pointing to top navigation menu)

New Slider Functionality with Video (Callout pointing to the main banner slider)

Prominent Buttons for High-Traffic Pages (Callout pointing to the 'PAY BILL', 'MANAGE ACCOUNT', and 'OUTAGE MAP' buttons)

Chatbot Feature (Callout pointing to the 'chat' icon)

“Power of Community” Message top of the page (Callout pointing to the introductory text)

Infographic about BPU (Callout pointing to the statistics section)

Important Content Segments (Callout pointing to the 'POWER', 'WATER', 'COMMUNITY', and 'KID POWER' segments)

News/Social Media Feed (Callout pointing to the news and social media section)

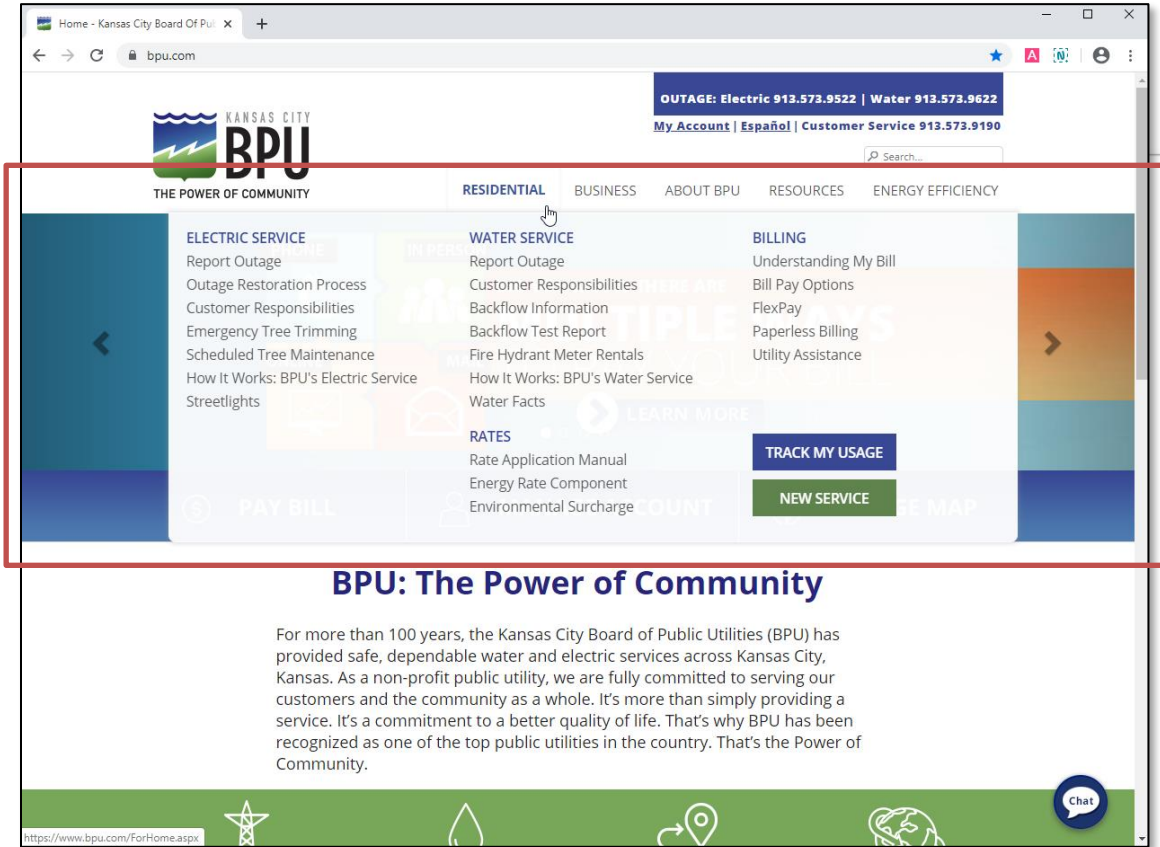
More Robust Footer (Callout pointing to the footer navigation and contact information)

IMPROVED Functionality (Large graphic on the right side of the page)

Website Content:

- Top navigation: [OUTAGE](#) Electric 913.373.9822 | [Water](#) 913.373.9822 | [My Account](#) | [Enroll](#) | [Customer Service](#) 913.373.9199
- Header: **KANSAS CITY BPU** THE POWER OF COMMUNITY
- Navigation: [HOME](#) | [ABOUT BPU](#) | [RESOURCES](#) | [HOW WE SERVE YOU](#)
- Slider: **A SIMPLER WAY TO PAY YOUR BILL IN MINUTES WITH PAPERLESS BILLING** | [Sign Up Now!](#)
- Buttons: [PAY BILL](#) | [MANAGE ACCOUNT](#) | [OUTAGE MAP](#)
- Section: **BPU: The Power of Community**
For more than 100 years, the Kansas City Board of Public Utilities (BPU) has provided safe, dependable water and electric services across Kansas City, Kansas. As a non-profit public utility, we are fully committed to serving our customers and the community as a whole. It's more than simply providing a service. It's a commitment to a better quality of life. That's why BPU has been recognized as one of the top public utilities in the country. That's the Power of Community.
- Infographic:
 - 29,250 ELECTRIC CUSTOMERS
 - 22,950 WATER CUSTOMERS
 - 58 SQUARE MILES
 - 1 POWERFUL COMMUNITY
- Content Segments:
 - POWER**: We are proud to offer dependable and reliable electric service to every household in our community at some of the lowest rates in the nation. [LEARN MORE](#)
 - WATER**: We deliver more than 16 million gallons of water a day (1000) to our customers, with a focus on quality and service you can count on. [LEARN MORE](#)
 - COMMUNITY**: See how we're making an impact in our communities through our employee education programs and services. [LEARN MORE](#)
 - KID POWER**: Check out our kid-friendly page full of fun (and educational) videos, coloring pages, and more. [LEARN MORE](#)
- Newsletter: **BPU CONNECTION** | [SIGN UP FOR OUR NEWSLETTER](#)
- News/Social Media:
 - News**: May 2020 BPU Board Meeting Notice
 - Facebook**: Kansas City Board of Public Utilities (KCKBPU) | [Like](#) | [Share](#) | [More](#)
 - Twitter**: Latest Tweets
 - Chatbot**: Have a QUESTION? Try our chatbot at [bpu.com](#)
- Footer:
 - KANSAS CITY BPU** THE POWER OF COMMUNITY
 - 140 Minnesota, Home Kansas City, MO 64111-7639 (913) 273-9900 Contact Us
 - MY ACCOUNT | RESIDENTIAL | ENERGY EFFICIENCY
 - PAY BILL | BUSINESS | KID POWER
 - NEW SERVICE | ABOUT BPU | EVENTS
 - CAREERS | RESOURCES | NEWS
 - CONTACT US
 - © 2020 Kansas City Board of Public Utilities

New Mega Menu



- Allows for quicker navigation
- Highlights High-Traffic Areas
- Special call-out for New Service



OUTAGE: Electric 913.572.9522 | Water 913.572.9422

My Account | [Español](#) | Customer Service 913.572.8198

Search

RESIDENTIAL BUSINESS ABOUT BPU RESOURCES ENERGY EFFICIENCY

BOARD MEETINGS - INFORMATION

ABOUT BPU » EVENTS

Check out BPU's board meetings

CHOOSE MONTH > April

DATE EVENT

May 06: BPU Board Meeting 6:00PM

May 20: BPU Board Meeting 6:00PM

LOCATION

BPU Admin Building: 540 Minnesota Ave., KCK
Time: 6:00PM

View larger map

Click here to view the board meeting agenda.

Search our meeting minutes archive



MEET OUR BOARD OF DIRECTORS



Ryan Edson
President
Member-at-Large
Position #2



Robert L. Milan, Sr.
Vice President
Member First District



Mary L. Gonzales
Secretary
Member-at-Large
Position #1



Rose Mulvany Henry
Member-at-Large
Position #3



Tom Groneman
Member Second
District



Jeff Bryant
Member Third District



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Kansas City, KS 66101-2938
(913) 572-8000
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CCR RULE COMPLIANCE DATA AND IMPLEMENTATION
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Board Meeting Page

- Developed a new Board Meeting page to add meeting dates, 'agenda' and 'meeting minutes' to keep customers informed
- Highlighted map for easy reference to meeting location



OUTAGE: Electric 913.573.9522 | Water 913.572.9622
My Account | Español | Customer Service 913.573.9190

RESIDENTIAL BUSINESS ABOUT BPU RESOURCES ENERGY EFFICIENCY

Search

NEWSLETTER



NEWSLETTER

Sign up for BPU Connection

EMAIL ADDRESS*

FIRST NAME

LAST NAME

SUBMIT

Please note: By filling out this form, you are subscribing to our email list and may receive periodic emails from BPU, which may include information on new programs, services, upcoming events and news that may be of interest to you.

Your information will not be shared with parties outside of BPU unless necessary to complete your request. Please [click here](#) for BPU's privacy policy.



Get helpful hints, tips, and news from BPU. From the latest news and events impacting the community to money-saving tips for lowering your energy bill, the BPU Connection is your source for helpful and handy information.

Sign up today and be better connected with what's going on in your area with the BPU Connection online newsletter.

[Click here](#) to view the current issue of BPU Connection.

DOWNLOAD CURRENT ISSUE

Interested in past issues of BPU Connection? Click below to view our newsletter archive.



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- 2019 Summer Issue
- 2018 Spring-Summer Issue
- 2018 Winter Issue
- 2017 Winter Issue
- 2017 Spring-Summer Issue
- 2016 Winter-Spring Issue
- 2016 Spring-Summer Issue



540 Minnesota Avenue
Kansas City, KS 66101-2930
(913) 573-9600
Contact Us

MY ACCOUNT
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CAREERS
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ABOUT BPU
RESOURCES

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KID POWER
EVENTS
NEWS

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Newsletter Page

- Easier to sign up for the electronic version of the newsletter.
- And added an archive section to access past issues

SAVING TIPS

ENERGY EFFICIENCY • SAVING TIPS

The power to save

Use these tips to help save on your utility bills.

Lowering your energy or water bills starts with being more aware of your utility usage. We've put together a variety of helpful videos and tips to show you how to do a few simple things to save on your utilities.

Saving energy with your appliances



Washing Clothes

Show More



Skip The Oven



Shorter Dryer Hose



Deep Clean Your Dryer



QUICK TIPS:

Buying new appliances? The energy savings will surprise you.
Replace older appliances and increase your energy savings. A new washing machine uses just half the energy of a 10-year-old unit. A new refrigerator can cut energy use up to 70%. All major appliances, except ovens and ranges, come with energy guide labels. Research these labels to compare the energy usage of different models. These labels tell you the typical annual operating cost of the appliance, based on national average energy rates.

When out of town, turn it down
If you're planning on being away for 24 hours, consider turning your appliances down or off to save energy costs. Turn off air conditioners, heaters, pool and waterbed heaters, fans, lights and small appliances. If you're going away for a longer amount of time, do the above plus turn your water heater off or down per the manufacturer's instructions. You may also want to purchase a programmable thermostat to automatically regulate your home temperature while you are away at work during the day.

Smart Heating, Cooling & Water Tips



Shorter Showers

Show More



Furnace Maintenance



Ceiling Fans



Air Conditioner And Furnace

QUICK TIPS:

Buying a new home? Efficiency, efficiency, efficiency.
Remember to look for energy-efficient features. While they may cost more up front, in the long run they will cost less to own. Look for passive, solar, energy-efficient heating and cooling, tightly sealed ducts, and energy-saving windows.

Sometimes, it's what's outside that counts.
Plant a deciduous tree on the south or west side of your home. It will provide cool shade in summer and allow warming sun to reach the house in fall and winter. A carefully planned windbreak can offer protection against cold winds and offer habitat for animals while reducing soil erosion by the wind. Proper tree placement can have more than aesthetic value. Also, consider hand-mowing small lawns and don't over-use gas mowers to save on operating costs.

Saving Tips

- Improved the organization and presentation of the Saving Tips page for easier navigation

Next Steps/Phase 2

- Improve upon refreshed site with the following among others:
 - Update bill pay options page and add button on home page
 - Add customer service, electric & water policies
 - Developer services/new construction page
 - FlexPay page
 - Interactive page for Kiosks using Google maps
 - Electrical heating page
 - Vendor/supplier page
 - Improvements to careers page
 - And others

Questions?





EMS System Features

May 20, 2020

What is SCADA

- SCADA – Supervisory Control and Data Acquisition
- Primary Function

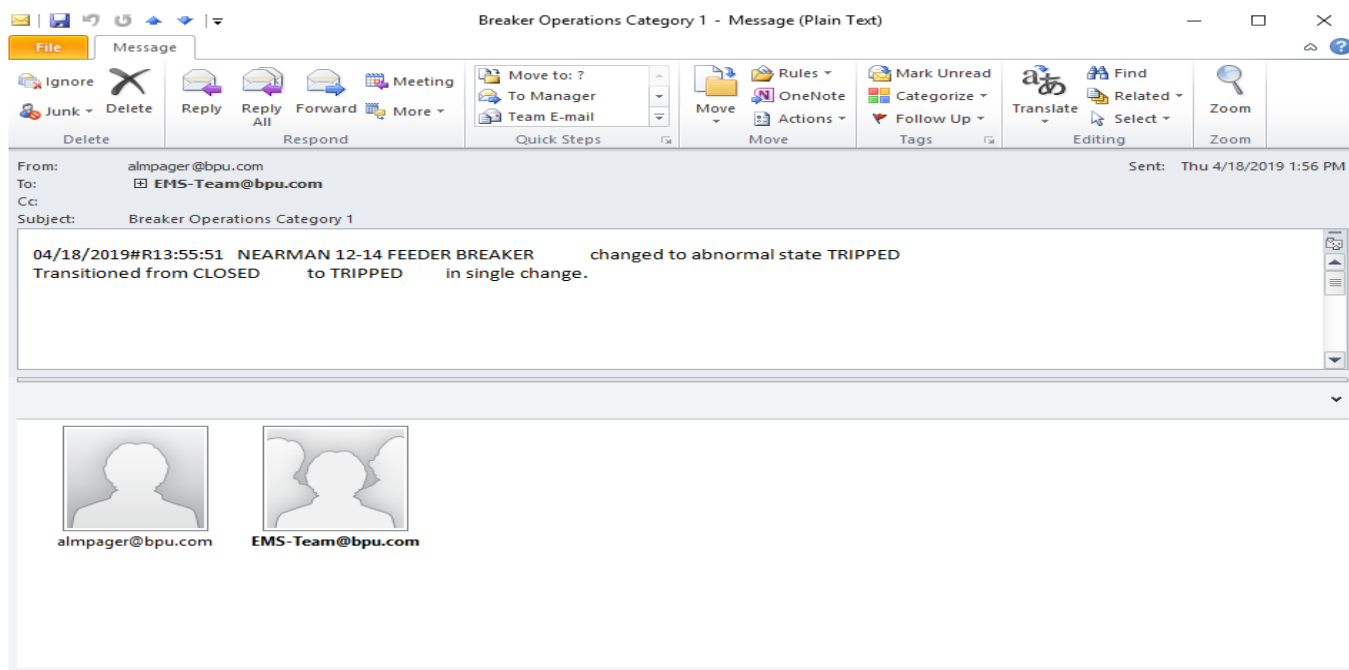
SCADA Enhancements

- Alarm/Alert features
- Storm Mode
- Seasonal Limits
- Ring Buss Calculation
- Feeder Peak Data
- Circuit Breaker Review Data
- OMS Implementation

Alarm/Alert features

- Alarm pager – real time email alerts
- Configured based on key word, alarm exception category, category, composite id
- Email recipients are configurable

Alarm Pager Example



Storm Mode

- Alarm Categories are selectable with the exception of priority 1
- Duration is configurable

Storm Mode

The screenshot shows a web browser window with the following elements:

- Browser tabs: ALARM_SUMMARY,ALARM[EMS] dogfish (B) Page:1 of 1
- Page Title: Alarm Summary
- Navigation: Storm Inhibit (thumbs up icon), buttons 1-8, trash icon, alarm icon, List: 0% full, refresh icon.
- Table Headers: Time, State, Message
- Table Content: A single row with a message: STORM_OP... - STORM_OPTIONS_POPUP,ALARM[EMS] dogfish (STORM_OPT... - EMS_EMS... x
- Modal Window (Storm Mode):
 - Storm Mode: OFF (radio button)
 - Active Until:
 - Duration (mins): 10
 - Storm Area: POWER (dropdown menu)
 - Restart Required
 - Priorities: 1, 2, 3, 4, 5, 6, 7, 8 (checkboxes)

Seasonal Limits

- Build based on field data provided by Electrical Engineering and SPP Modeling Submission Tool
- Triggered automatically in SCADA

Seasonal Limits

BPU Seasonal Line Ratings	MVA Limits															
	June - Sept		Oct - Nov		Dec - Mar		Apr - May		June - Sept		Oct - Nov		Dec - Mar		Apr - May	
	Normal	Emergency	Normal	Emergency	Normal	Emergency	Normal	Emergency	Normal	Emergency	Normal	Emergency	Normal	Emergency	Normal	Emergency
Tie Lines																
Wolcott - Weatherby	293	334	334	334	334	334	334	334	1051	1198	1198	1198	1198	1198	1198	1198
Wolcott - Weatherby	311	334	334	334	334	334	334	334	1115	1198	1198	1198	1198	1198	1198	1198
Metropolitan - Edwardsville	293	318	318	318	318	318	318	318	1051	1140	1140	1140	1140	1140	1140	1140
Metropolitan - Shawnee Mission	311	334	334	334	334	334	334	334	1115	1198	1198	1198	1198	1198	1198	1198
Barber - Terrace	293	318	318	318	318	318	318	318	1051	1140	1140	1140	1140	1140	1140	1140
Barber - Shawnee	293	318	318	318	318	318	318	318	1051	1140	1140	1140	1140	1140	1140	1140
Evergy Owned Lines in Service Territory																
Metropolitan - Maywood South	293	334	357	390	422	449	357	390	1051	1198	1280	1399	1513	1610	1280	1399
Metropolitan - Maywood South	316	356	343	382	372	407	343	382	1133	1277	1230	1370	1334	1460	1230	1370
Maywood South - Maywood	623	680	623	680	623	680	623	680	2234	2438	2234	2438	2234	2438	2234	2438
Maywood South - Maywood	552	557	557	557	557	557	557	557	1979	1997	1997	1997	1997	1997	1997	1997
Maywood - Wolcott	293	335	351	351	368	368	351	351	1051	1201	1259	1259	1320	1320	1259	1259
Maywood - Wolcott	316	356	343	382	372	407	343	382	1133	1277	1230	1370	1334	1460	1230	1370
161kv Lines																
Barber - Gibbs	232	247	246	251	246	251	246	251	832	886	882	900	882	900	882	900
Barber - Armourdale	293	318	318	318	318	318	318	318	1051	1140	1140	1140	1140	1140	1140	1140
Quindaro - Nearman	293	318	318	318	318	318	318	318	1051	1140	1140	1140	1140	1140	1140	1140
Quindaro - General Motors	293	318	318	318	318	318	318	318	1051	1140	1140	1140	1140	1140	1140	1140
Nearman - Sunset	293	318	318	318	318	318	318	318	1051	1140	1140	1140	1140	1140	1140	1140
Nearman - Maywood	293	318	318	318	318	318	318	318	1051	1140	1140	1140	1140	1140	1140	1140
Sunset - Kaw West	293	318	318	318	318	318	318	318	1051	1140	1140	1140	1140	1140	1140	1140
Kaw West - Turner	232	247	246	251	246	251	246	251	832	886	882	900	882	900	882	900
Kaw West - Metropolitan	293	318	318	318	318	318	318	318	1051	1140	1140	1140	1140	1140	1140	1140
Gibbs - Turner	232	247	246	251	246	251	246	251	832	886	882	900	882	900	882	900
Center City - Fairfax	293	318	318	318	318	318	318	318	1051	1140	1140	1140	1140	1140	1140	1140
Center City - Muncie II	293	318	318	318	318	318	318	318	1051	1140	1140	1140	1140	1140	1140	1140
Armourdale - Muncie II	293	318	318	318	318	318	318	318	1051	1140	1140	1140	1140	1140	1140	1140
General Motors - Fiberglass	293	318	318	318	318	318	318	318	1051	1140	1140	1140	1140	1140	1140	1140
Fairfax - Fiberglass	293	318	318	318	318	318	318	318	1051	1140	1140	1140	1140	1140	1140	1140



Seasonal Limits

SCADA NEARMAN SUBSTN Summaries System Summaries Peak Data

Action Options Test Mode: OFF Inhibit: OFF NIS: OFF

All Analogs Analogs w limits Points Points w controls Counts Filter for Eqp Group: BUSS

Equipment Group Filter: none

Eqp Group	Name	Device ID	Value	Ignore	Data Quality	Inhibit Alarm	Options Not In Service	TEST Mode	Meas Tag	Hier Tag	Additional information Deadband	Calculation	Communication Diagram
NEARMAN 177	CALCULATED MVA		56.84		Suspect								
	Limit: 85%	High: 270.00	Low: -20.00								12.00		
	Alternate Limit: FALL	High: 249.0	Low: -20.0										
	Alternate Limit: SPRING	High: 249.0	Low: -20.0										
	Alternate Limit: WINTER	High: 249.0	Low: -20.0										
	Alternate Limit: SUMMER	High: 270.0	Low: -20.0	←									
	Limit: 95%	High: 302.00	Low: -20.00								12.00		
	Alternate Limit: FALL	High: 278.0	Low: -20.0										
	Alternate Limit: SPRING	High: 278.0	Low: -20.0										
	Alternate Limit: WINTER	High: 278.0	Low: -20.0										
	Alternate Limit: SUMMER	High: 302.0	Low: -20.0	←									
	Limit: SOL	High: 318.00	Low: -20.00								12.00		
	Alternate Limit: FALL	High: 293.0	Low: -20.0										
	Alternate Limit: SPRING	High: 293.0	Low: -20.0										
	Alternate Limit: WINTER	High: 293.0	Low: -20.0										
	Alternate Limit: SUMMER	High: 318.0	Low: -20.0	←									

Ring Buss Calculation

Ring Buss

18-May-2020 10:48:34

Ring Buss Calculations

Station	161 KV	Station	69 KV
ARMOURDALE	0 MW	EVERETT	0 MW
BARBER	-1 MW	FISHER	0 MW
CENTER CITY	0 MW	GRIFFIN WHEEL	14 MW
FAIRFAX	3 MW	KAW PLANT	-4 MW
FIBERGLASS	0 MW	LEVEE	0 MW
GENERAL MOTORS	0 MW	MAYWOOD	0 MW
GIBBS	3 MW	MILL STREET	1 MW
KAW WEST	3 MW	MORRIS	0 MW
MAYWOOD	-1 MW	MUNCIE	-13 MW
MAYWOOD SOUTH	-2 MW		



Feeder Peak

- Built to include Week's High, Month's High, Quarter's High, and Year's High
- Includes all BPU Feeders



Feeder Peak

		Feeder Review															PRINT FDR LIST										
SUBSTATION	FEEDER	PH	6 HOUR AVG	LAST READ	TIME READ	TODAY'S HIGH			YESTERDAY'S HIGH			WEEK'S HIGH			MONTH'S HIGH			QUARTER'S HIGH			YEAR'S HIGH						
						PEAK	PH	TIME	PEAK	PH	TIME	PEAK	PH	TIME	PEAK	PH	TIME	PEAK	PH	TIME	PEAK	PH	TIME	PEAK	PH	TIME	
ARMOURDALE	15-01	A	66	66	10 : 49 : 53	66			68			68			119			121			121			121			16 : 37 : 53
		B	64	64	10 : 49 : 53	66	C	04 : 25 : 53	66	A	00 : 37 : 53	66	A	00 : 37 : 53	119	C	17 : 49 : 53	121	C	16 : 37 : 53	121	C	07-Apr-2020	121	C	07-Apr-2020	
		C	66	65	10 : 49 : 53	67			68			68			121			122			122			122			
ARMOURDALE	15-02	A	34	36	10 : 49 : 53	41			42			42			51			51			70			70			17 : 43 : 53
		B	42	44	10 : 49 : 53	48	B	09 : 43 : 53	48	B	21 : 43 : 53	53	B	21 : 43 : 53	63	B	21 : 25 : 53	75	B	21 : 19 : 53	112	B	03-Apr-2020	112	B	20-Jan-2020	
		C	37	41	10 : 49 : 53	39			37			37			45			52			81			81			
ARMOURDALE	15-03	A	0	0	10 : 49 : 53	0			0			0			0			0			0			0			00 : 01 : 53
		B	0	0	10 : 49 : 53	0	A	00 : 01 : 53	0	A	00 : 01 : 53	0	A	00 : 01 : 53	0	A	13 : 43 : 53	0	A	00 : 01 : 53	0	A	01-Apr-2020	0	A	01-Jan-2020	
		C	0	0	10 : 49 : 53	0			0			0			0			0			0			0			
ARMOURDALE	15-04	A	16	14	10 : 49 : 53	22			18			22			24			29			32			32			06 : 31 : 53
		B	14	13	10 : 49 : 53	10	A	05 : 49 : 53	16	A	12 : 01 : 53	10	A	05 : 49 : 53	18	A	08 : 31 : 53	20	A	06 : 25 : 53	14	A	04-Apr-2020	14	A	18-Feb-2020	
		C	14	14	10 : 49 : 53	12			17			12			18			20			16			16			
ARMOURDALE	15-05	A	0	0	10 : 49 : 53	0			0			0			0			0			0			0			00 : 01 : 53
		B	0	0	10 : 49 : 53	0	A	00 : 01 : 53	0	A	00 : 01 : 53	0	A	00 : 01 : 53	0	A	13 : 43 : 53	0	A	00 : 01 : 53	0	A	01-Apr-2020	0	A	01-Jan-2020	
		C	0	0	10 : 49 : 53	0			0			0			0			0			0			0			
ARMOURDALE	15-06	A	90	96	10 : 49 : 53	100			77			100			111			128			148			148			09 : 07 : 53
		B	81	88	10 : 49 : 53	97	C	10 : 37 : 53	81	C	01 : 37 : 53	97	C	10 : 37 : 53	122	B	08 : 55 : 53	131	C	09 : 37 : 53	143	C	17-Apr-2020	143	C	29-Jan-2020	
		C	92	97	10 : 49 : 53	105			82			105			118			139			160			160			
ARMOURDALE	15-07	A	168	175	10 : 49 : 53	181			153			181			207			225			256			256			11 : 01 : 53
		B	168	177	10 : 49 : 53	179	C	09 : 55 : 53	160	C	01 : 13 : 53	179	C	09 : 55 : 53	211	C	13 : 55 : 53	243	B	13 : 43 : 53	263	C	03-Apr-2020	263	C	22-Jan-2020	
		C	183	189	10 : 49 : 53	197			168			197			222			228			287			287			
ARMOURDALE	15-08	A	0	0	10 : 49 : 53	0			0			0			0			0			0			0			00 : 01 : 53
		B	0	0	10 : 49 : 53	0	A	00 : 01 : 53	0	A	00 : 01 : 53	0	A	00 : 01 : 53	0	A	13 : 43 : 53	0	A	00 : 01 : 53	0	A	01-Apr-2020	0	A	01-Jan-2020	
		C	0	0	10 : 49 : 53	0			0			0			0			0			0			0			
ARMOURDALE	15-09	A	0	0	10 : 49 : 53	0			0			0			0			0			0			0			00 : 01 : 53
		B	0	0	10 : 49 : 53	0	A	00 : 01 : 53	0	A	00 : 01 : 53	0	A	00 : 01 : 53	0	A	13 : 43 : 53	0	A	00 : 01 : 53	0	A	01-Apr-2020	0	A	01-Jan-2020	
		C	0	0	10 : 49 : 53	0			0			0			0			0			0			0			
ARMOURDALE	15-10	A	208	248	10 : 49 : 53	263			114			263			278			285			341			341			09 : 43 : 53

Circuit Breaker Log



Circuit Breaker Review

PRINT LIST

16-May-2020 06:10:49	FIBRGLAS	FIBERGLASS 15-18 BREAKER	CLOSED	COMMANDED
16-May-2020 06:10:45	FIBRGLAS	FIBERGLASS 15-18 BREAKER	TRIPPED	COMMANDED
08-May-2020 18:03:08	QUINDARO	CT #3 52G BREAKER	TRIPPED	
08-May-2020 18:02:36	QUINDARO	CT #3 52G BREAKER	CLOSED	MCD



Outage Management System

- Demonstration and Code completed by GE Grid
- NERC required background checks and training in progress for GE Grid team
- Testing and validation to commence upon completion of background checks and vendor training

Questions?

