



# KyMEA

## Delivery Point Metering and Meter Data System Update

October 24, 2018 Board Meeting



# MDS and Delivery Point Metering Update

- 10 Member Systems
  - 21 Delivery Points
  - 24 Meters
- Substation Facilities
- Member Purchase of Metering PTs and CTs
- Installation of Metering and Communication Equipment
- Installation of Meter Data System

# Delivery Points, Metering and Substations

Line No.	KyMEA Member	No. of Delivery Points	No. of Meters	Substation Transformer Ownership
	(a)	(b)	(c)	(e)
1	BARBOURVILLE	1	1	Member
2	BARDWELL	1	1	LGE/KU
3	BENHAM	1	1	LGE/KU
4	BEREA	2	2	Member
5	CORBIN	2	2	Member
6	FALMOUTH	1	1	LGE/KU
7	FRANKFORT	1	3	Member
8	MADISONVILLE	6	6	LGE/KU
9	PARIS	4	5	Member
10	PROVIDENCE	2	2	LGE/KU

*Madisonville and Providence are considering the purchase of substation facilities*

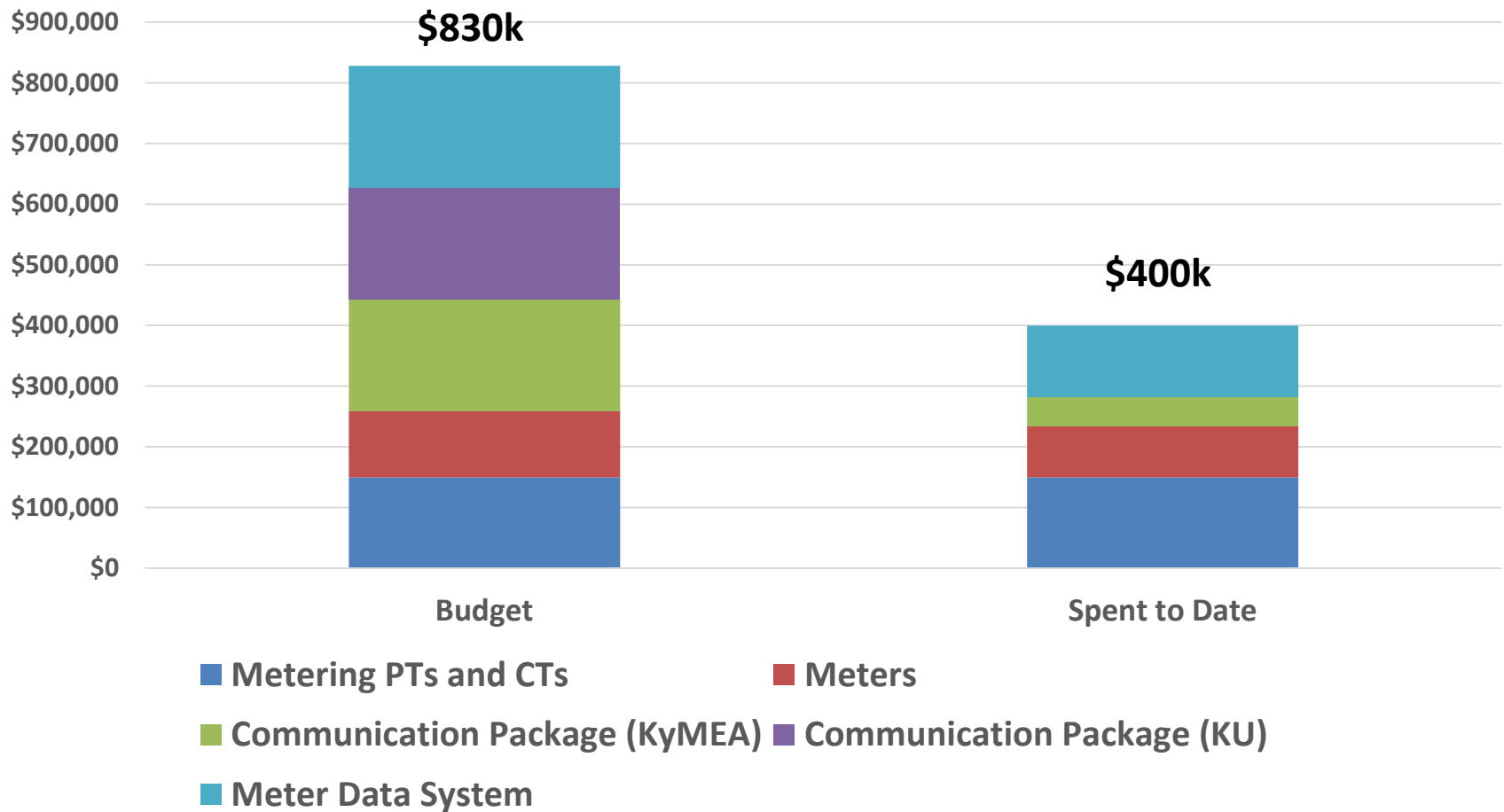
# Metering and Communication

Item	PO Issued To	Amount (\$) <sup>[1]</sup>
<b>Meters</b>	Schneider Electric c/o Leidy Engineering Sales	\$ 84,443
<b>Cell Routers</b>	Source, Inc.	\$ 6,674
<b>Data Plan</b>	Verizon	\$ 450 per month
<b>Ethernet Switch</b>	Industrial Networking Solutions	\$ 5,056
<b>Power Supply</b>	Digi-Key Electronics	\$ 1,062
<b>Total</b>		\$ 97,685
[1] As of October 2018; All amounts are one-time expenses unless otherwise indicated; at or under budget		

# Meter Data System

ITEM	Amount (\$) <sup>[1]</sup>
<b>Software</b>	\$ 21,171
<b>Startup &amp; Commissioning</b>	\$ 18,576
<b>Annual Support Plan</b>	\$ 30,190 (first 2 years)
<b>Server Hardware</b>	\$ 13,582
<b>Total MDS to Date</b>	\$ 83,519
[1] As of October 2018; All amounts are one-time expenses unless otherwise indicated; at or under budget	

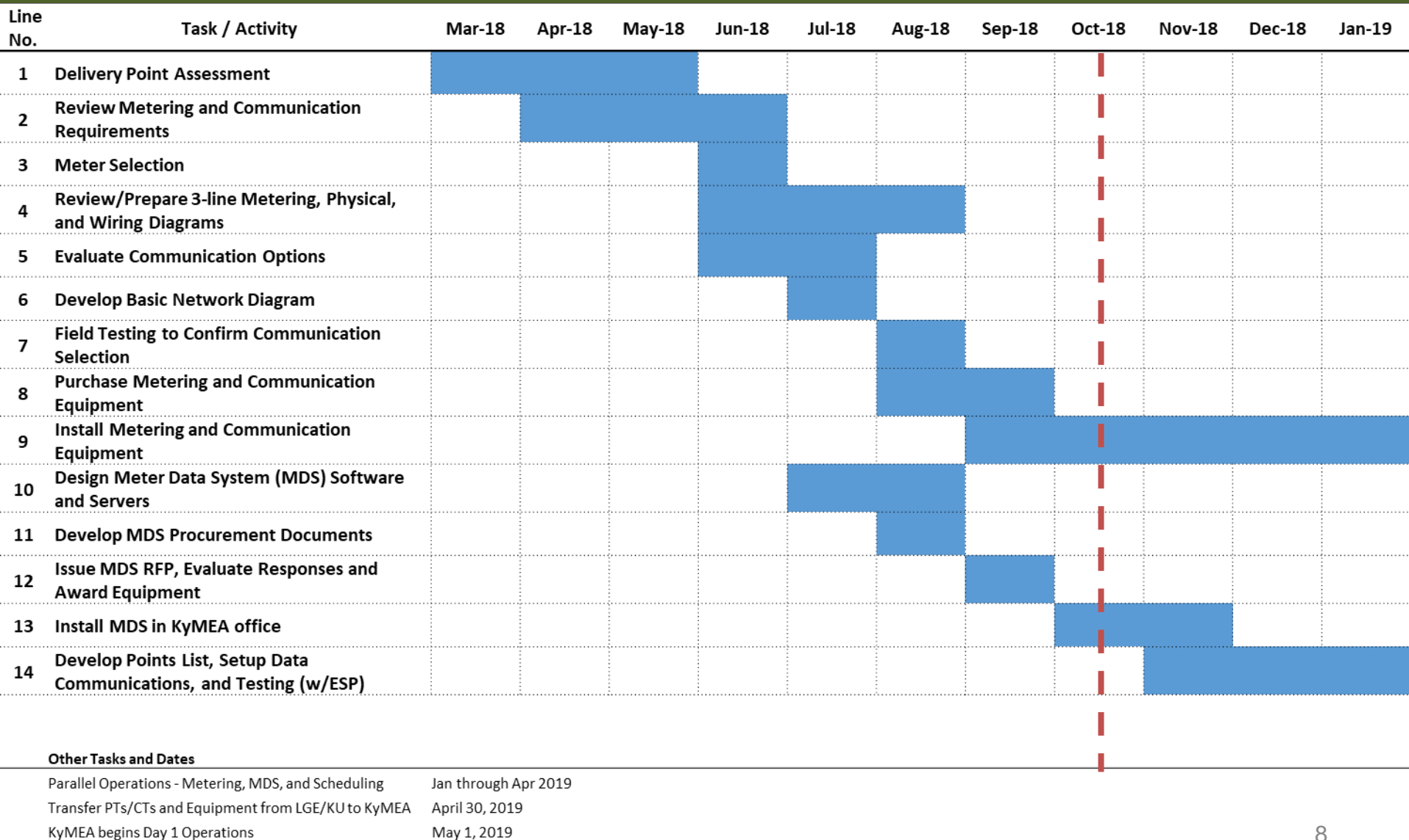
# Budget Status – October 2018



# Delivery Point Transition Plan

- Delivery Point Metering
  - Benham and Paris metering is complete
  - Madisonville is in progress
  - Remaining meters to be installed by end of year
- Meter Data System
  - Telecommunication and meter data arrangements include communication equipment, data path, and meter signal to LGE/KU and others

# Delivery Point Metering, Communication and MDS Schedule





# Delivery Point Meter Installation Schedule

Line No.	Member	No. of Del. Pts.	No. of Meters	Oct-18	Nov-18	Dec-18	Jan-19	Comments
1	Madisonville	6	6					6 meters, 6 comms
2	Providence	2	2					2 meters, 2 comms
3	Bardwell	1	1					1 meter, 1 comm
4	Benham	1	1 *					meter installed; comm from AMP via VPN
5	Barbourville	1	1					1 meter, 1 comm
6	Corbin	2	2					2 meters, 2 comms
7	Berea	2	2					2 meters, comms from AMP via VPN
8	Paris	4	5 *					5 meters installed, 4 comms to install
9	Falmouth	1	1					1 meter, 1 comm
10	Frankfort	1	3					3 meters, 1 comm
11	Totals	21	24					

\* Meters have been installed at these locations

# Discussion