



USING MOTORS@WORK



AGENDA

1. Introductions
2. About Motors@Work
3. Project history
4. Initial findings & analysis
5. Doing common tasks in Motors@Work
6. Incorporating Motors@Work into Toho's existing processes

TOHO TEAM

1. What's your name?
2. What's your role?
3. What would make today's training successful in your opinion?
4. What's your favorite local place or activity?
5. What's your most significant current challenge?



MOTORS@WORK TEAM



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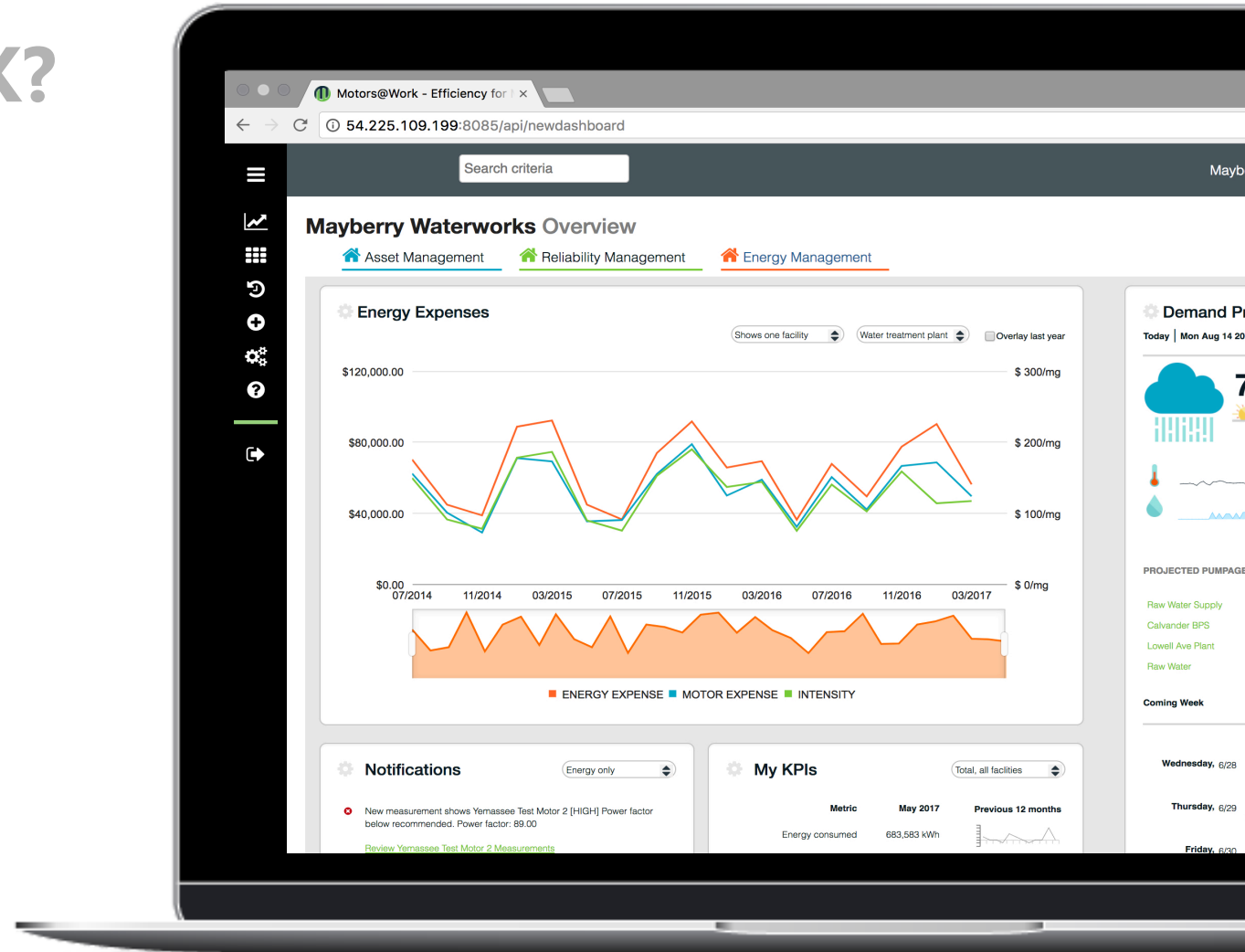
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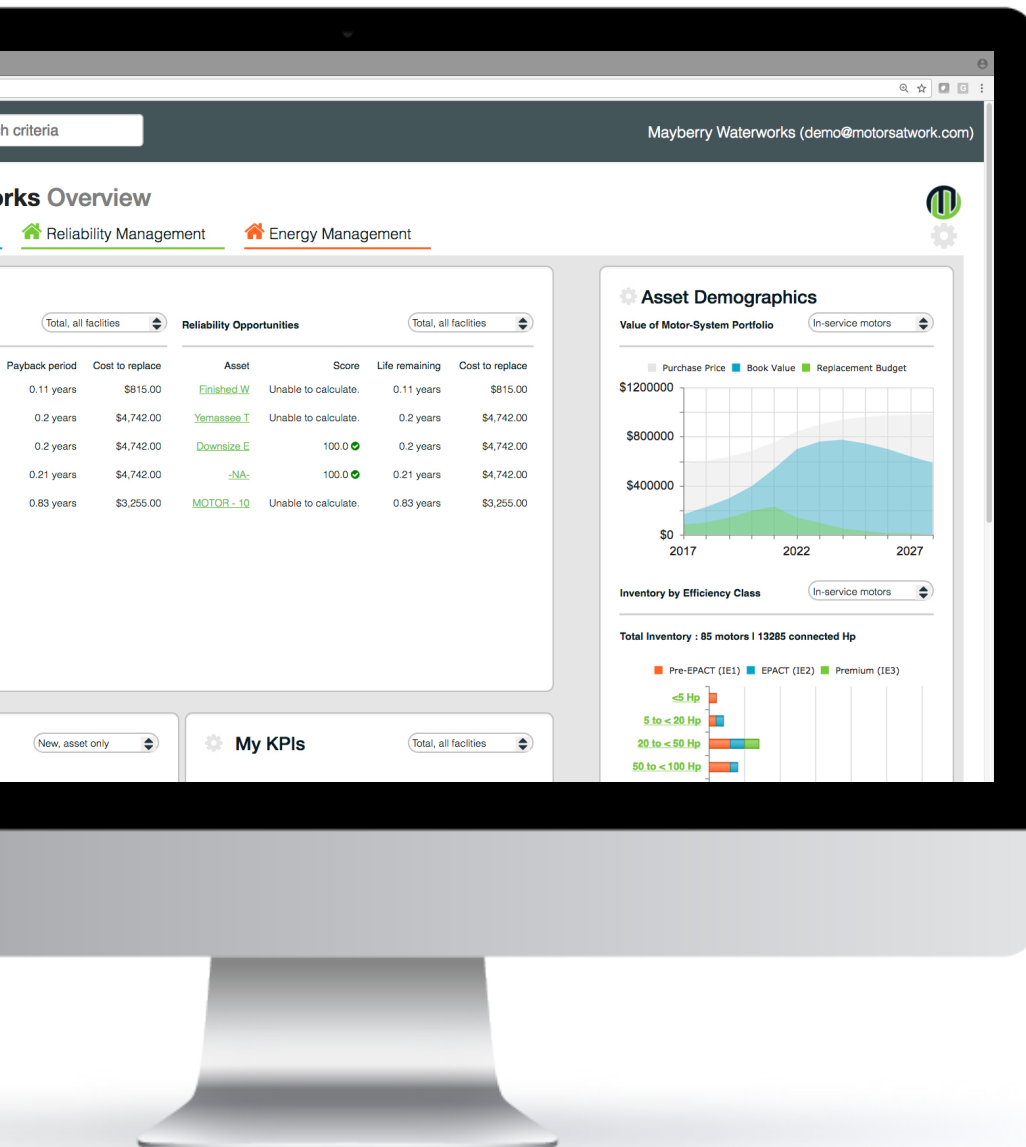


ABOUT MOTORS@WORK

WHY USE MOTORS@WORK?

Optimize your motor-driven systems' performance at the least energy cost





WHAT IS MOTORS@WORK?

Motors@Work provides timely technical, operational, & financial analyses on your motor-driven systems' performance to improve your



Energy intelligence



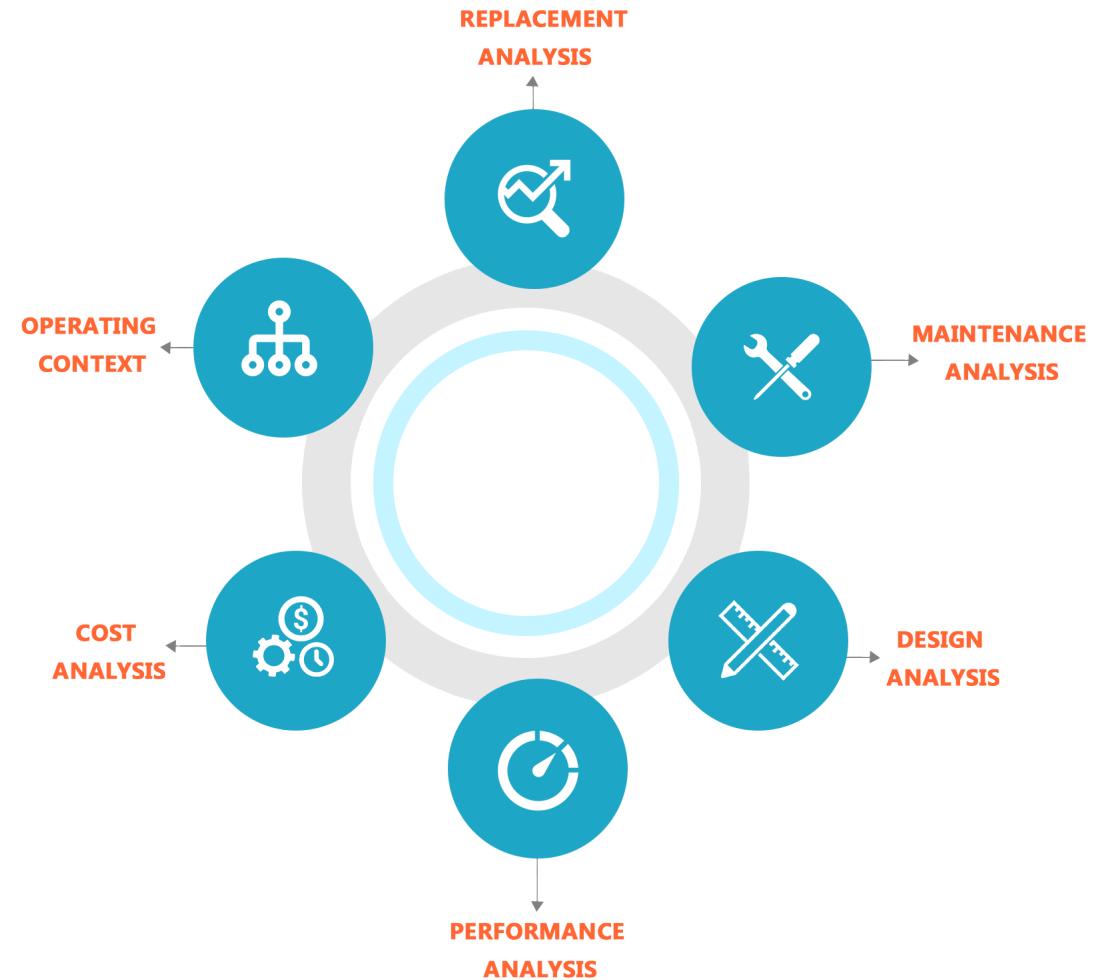
Asset intelligence



Reliability intelligence

HOW?

- Manage your motors anytime, anywhere, through our secure, cloud-based platform & EAM integrations
- Compare your motors' performance to our catalog of 46,000+ motors from 27 OEMs
- See how asset management decisions affect your utility bills by selecting your rate from our list of 47,000+ rates from 3,700+ utilities or by entering your custom rate
- View analytics on your motor inventory
- Identify energy efficiency upgrade opportunities
- Receive intelligence-rich condition-monitoring alerts
- Assess capital repair vs. replace decisions





PROJECT HISTORY

MILESTONES

10 JAN Planning session

11 MAY Project kick-off meeting

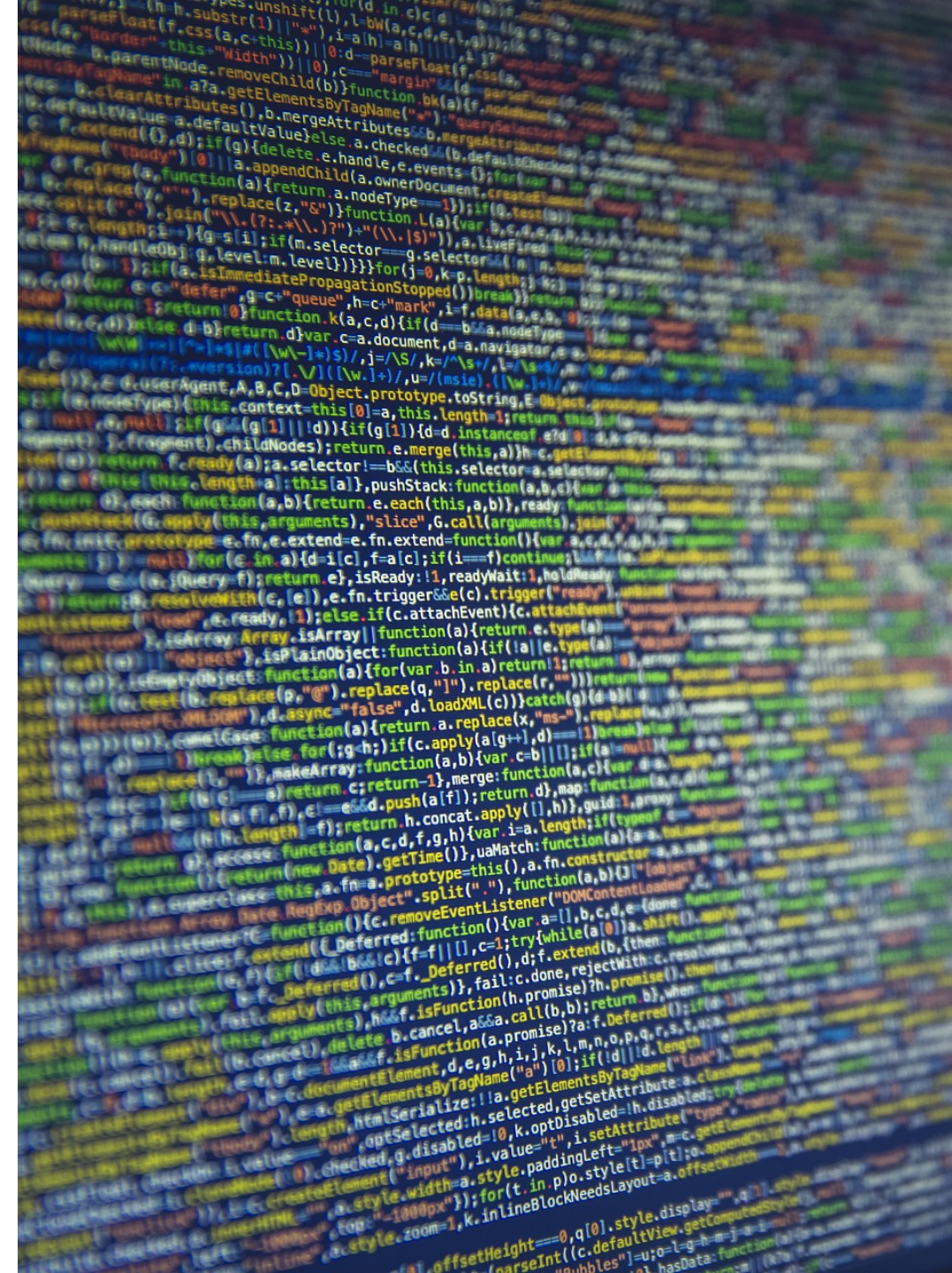
2 JUN Data collection complete

16 JUN Motors@Work environment configuration complete



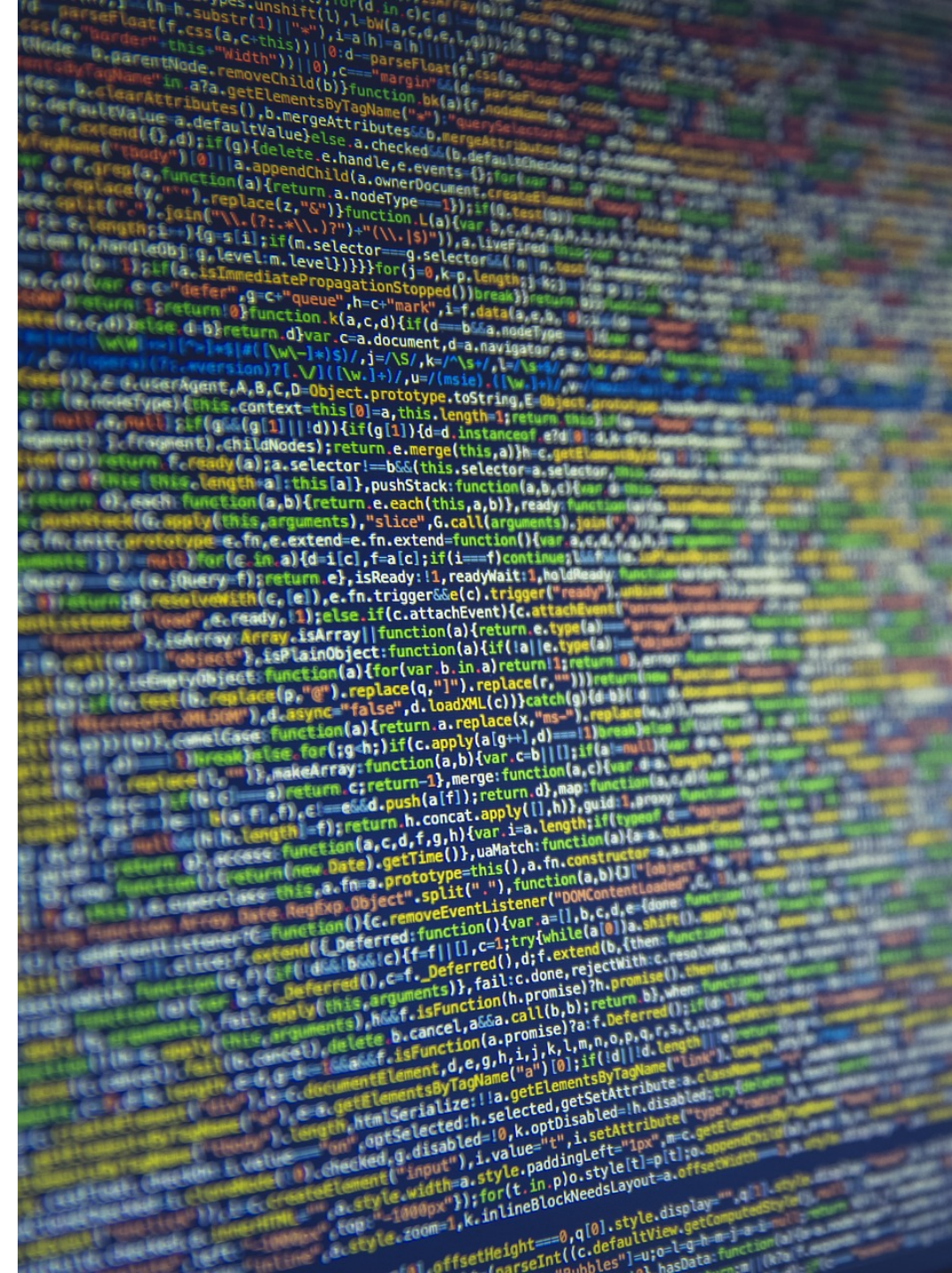
REMAINING TASKS

- Integration
- Go-live training (16 hours, on-site)



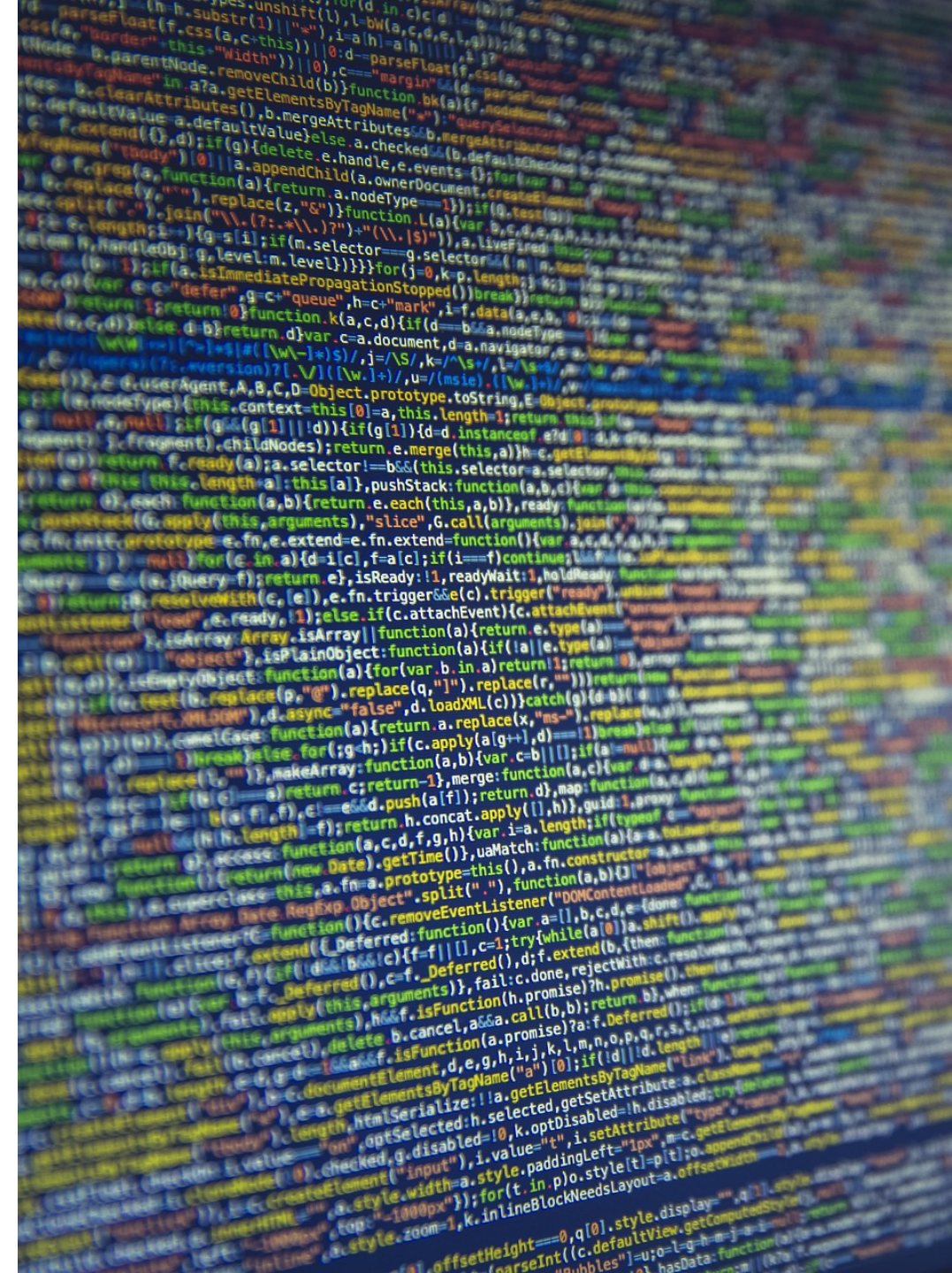
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- Integration
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 - **MDS-100** Using Motors@Work
 - **MDS-102 + MDS-111** Power systems & performance



REMAINING TASKS

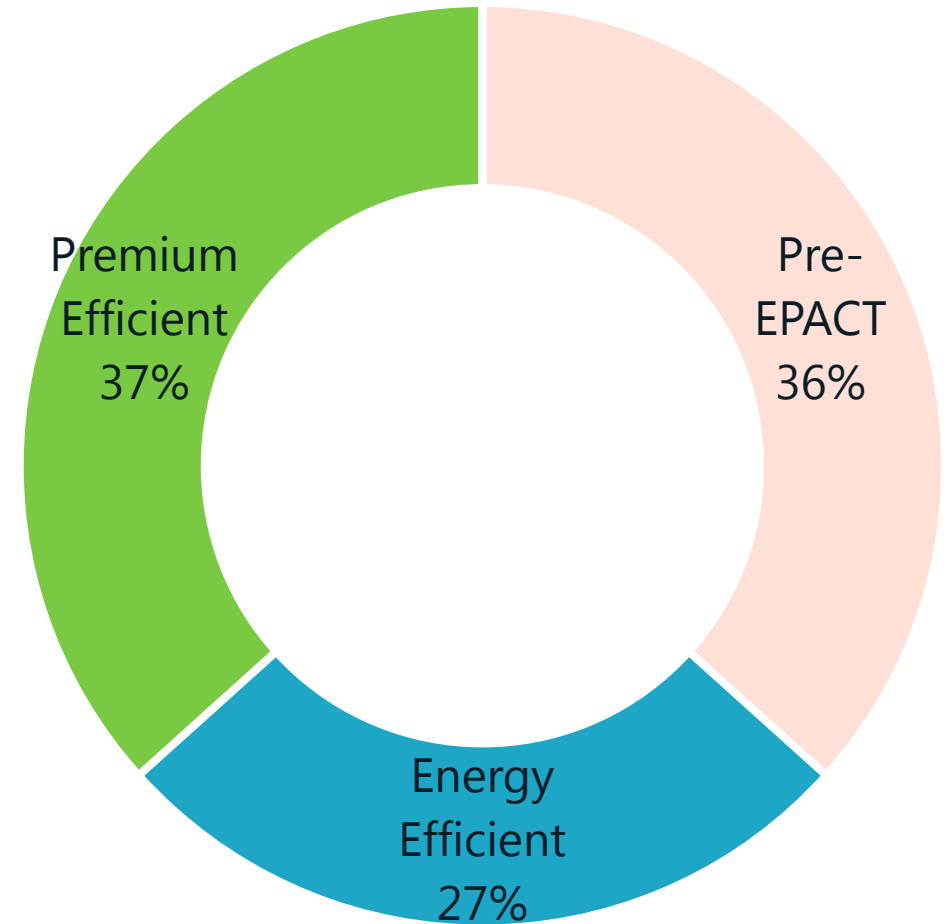
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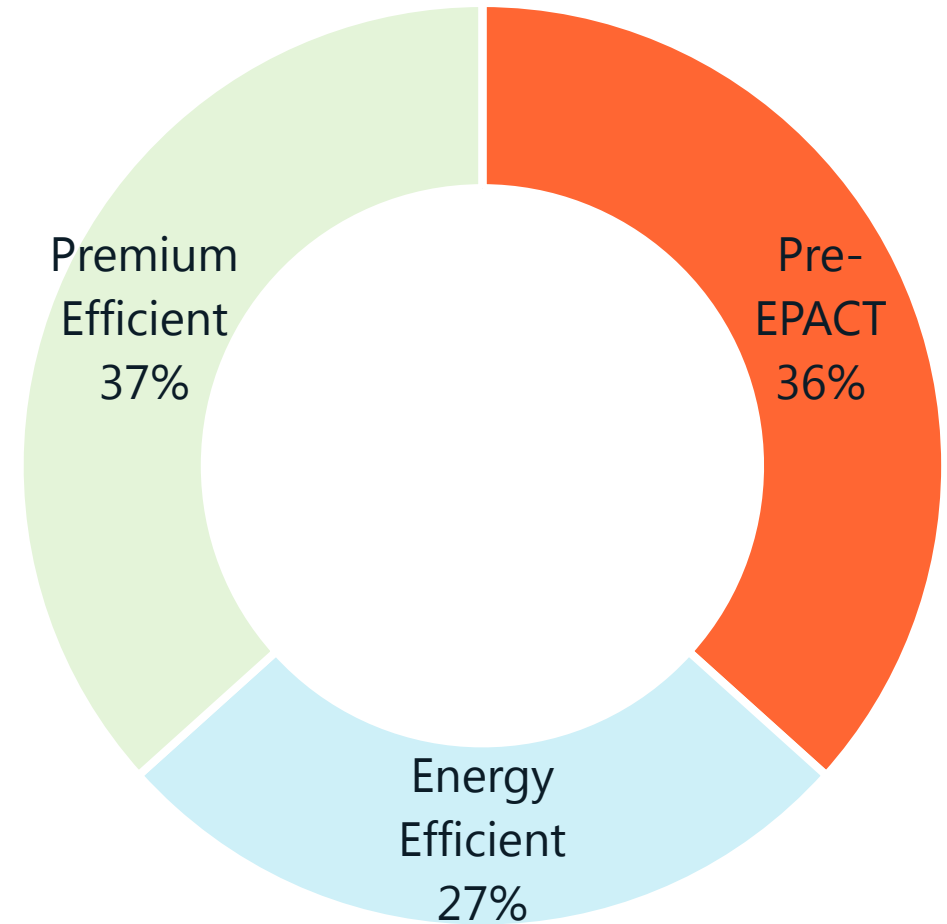


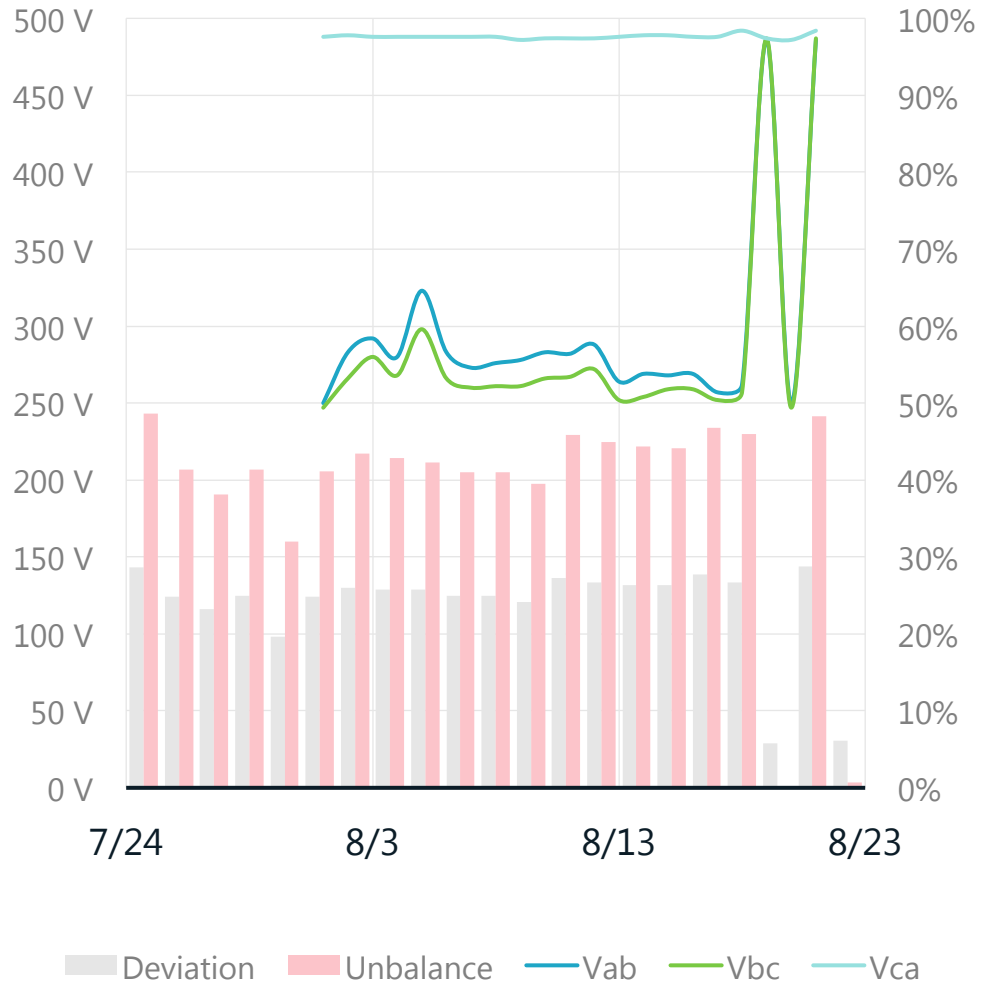
INITIAL FINDINGS & ANALYSIS

1. Toho's standalone motors tend to be highly efficient — with 64% of motors managed in Motors@Work meeting or exceeding EPACT minimum efficiency standards



2. Toho's integrated motors tend not to list efficiency data, which means they likely do not meet EPACT minimum efficiency standards





3. What's with the voltages on the Effluent Pumps?

- Effluent Pump 5 [at left]
- Effluent Reuse Pump 1
- Effluent Reuse Pump 2

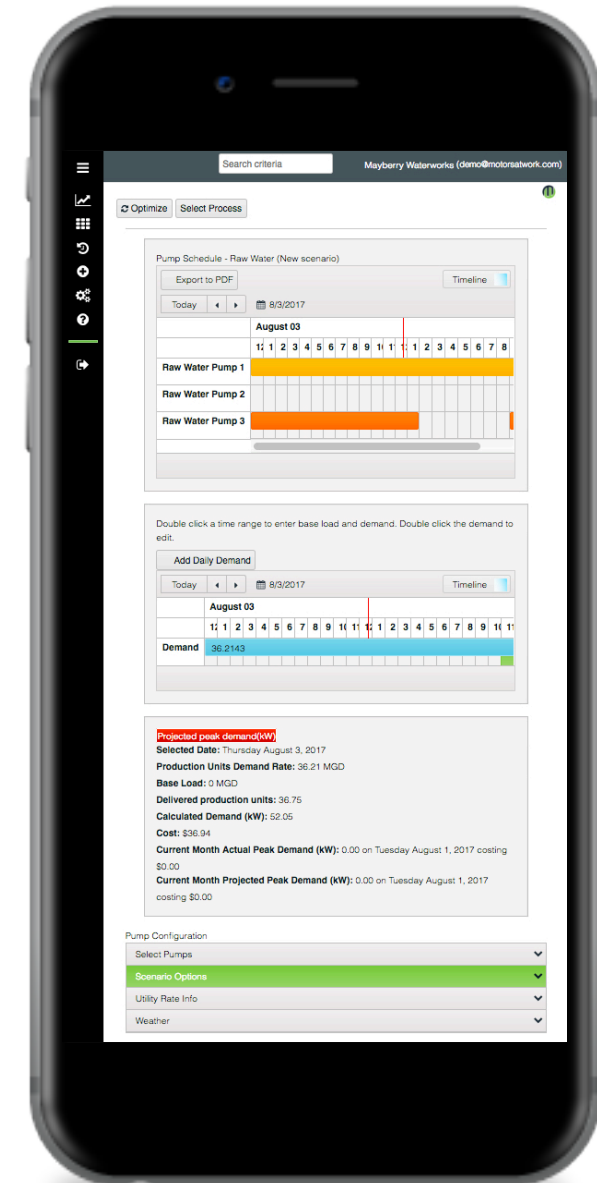


DOING COMMON TASKS IN MOTORS@WORK

COMMON TASKS

1. Navigating Motors@Work
2. Adding & editing motors
3. Adding & editing pumps
4. Adding measurements
5. Using pump optimization
6. Performing motor evaluations
7. Customizing your dashboard

Follow along on your laptop or review the **QUICK-START GUIDES** in your binder





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ENERGY & RELIABILITY SCORES

Energy GOOD [100 - 70] Asset in good condition, no action needed

WHAT'S NEW IN MOTORS@WORK V 4.0: AN ORIENTATION

POOR [0 - 30] Asset needs replacement within 2 years

Reliability GOOD [100 - 70] Asset in good condition, no action needed

FAIR [69 - 31] Asset needs replacement within 5 years

POOR [30 - 0] Asset needs replacement within 2 years

Measurements

Motor Measurement

Item	Date	Measure	Voltage (V)	Current (A)	Power (W)	Efficiency (%)	Temperature (°C)	Notes
1	2017-09-19 10:00	Power	230	10	2300	95	75	
2	2017-09-19 10:05	Current	230	10	2300	95	75	
3	2017-09-19 10:10	Voltage	230	10	2300	95	75	
4	2017-09-19 10:15	Power	230	10	2300	95	75	
5	2017-09-19 10:20	Current	230	10	2300	95	75	
6	2017-09-19 10:25	Voltage	230	10	2300	95	75	
7	2017-09-19 10:30	Power	230	10	2300	95	75	
8	2017-09-19 10:35	Current	230	10	2300	95	75	
9	2017-09-19 10:40	Voltage	230	10	2300	95	75	
10	2017-09-19 10:45	Power	230	10	2300	95	75	



Get an unexpected result?

Need more help?

Motors@Work's online [Help Library](#) contains the latest tips & tricks — just click the  [[Help icon](#)].



SUPPORTING TOHO'S EXISTING PROCESSES

A man wearing a green hard hat, safety glasses, and a yellow safety vest is looking intently at a large metal pipe in an industrial setting. The background is slightly blurred, showing other industrial equipment. The overall color palette is dominated by green and blue tones.

QUESTIONS?



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Motor Measurement

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**THANK
YOU!**