



CITY OF BURLINGTON

CIRCUIT LEVEL SUB METERING

TOM PEDLAR – ENERGY COORDINATOR, CITY OF BURLINGTON

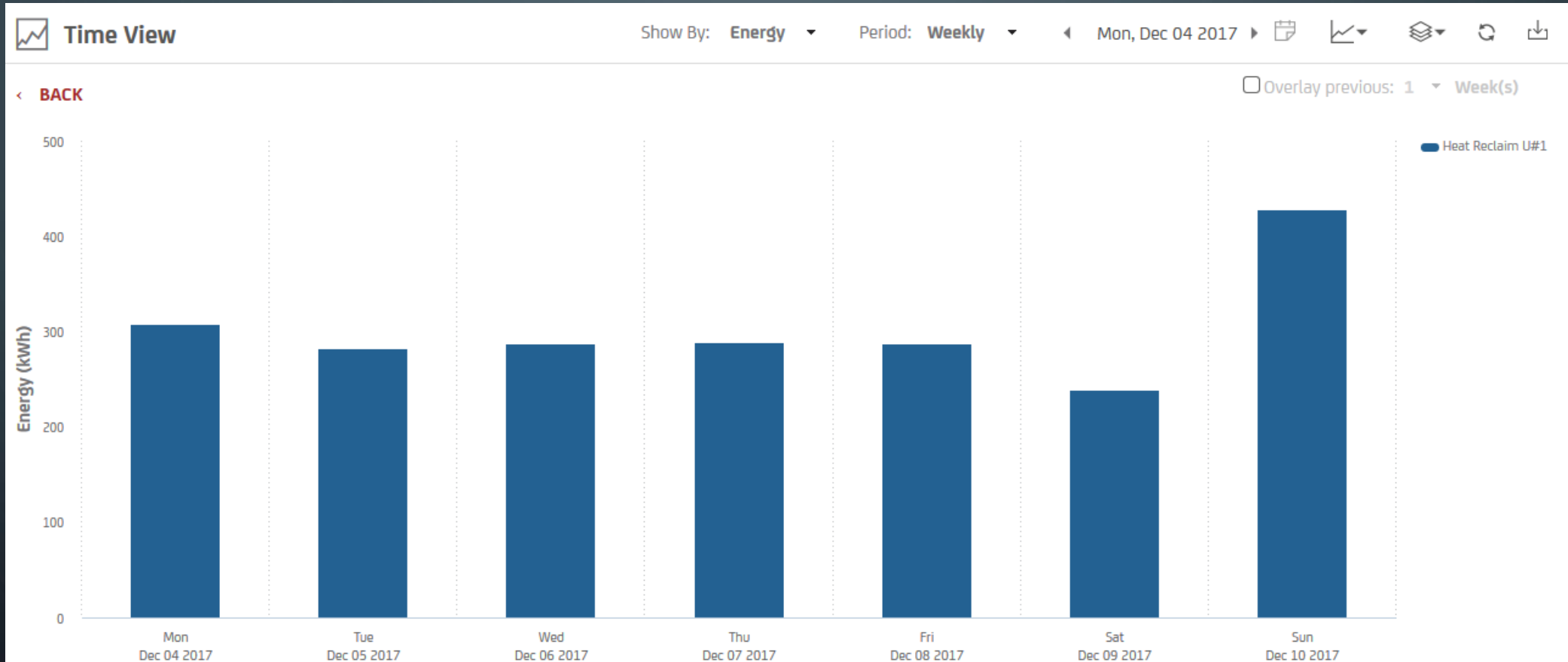
TOM.PEDLAR@BURLINGTON.CA

SYSTEM INFO

- Panoramic Power System
 - Electricity monitoring only – Natural Gas and Water are on the way!
- Installed at three highest electricity use city facilities.
 - Tansley Woods Community Cente, Appleby Ice Centre, Mainway Rec Centre.
- Purchased through Renteknik.
- Enrolled all three facilities in the Measurement and Targeting incentive program. Still underway with applications
- Three additional pool facilities to be installed in April.

RESULTS & BENEFITS

- Gives operations staff real time results for small changes



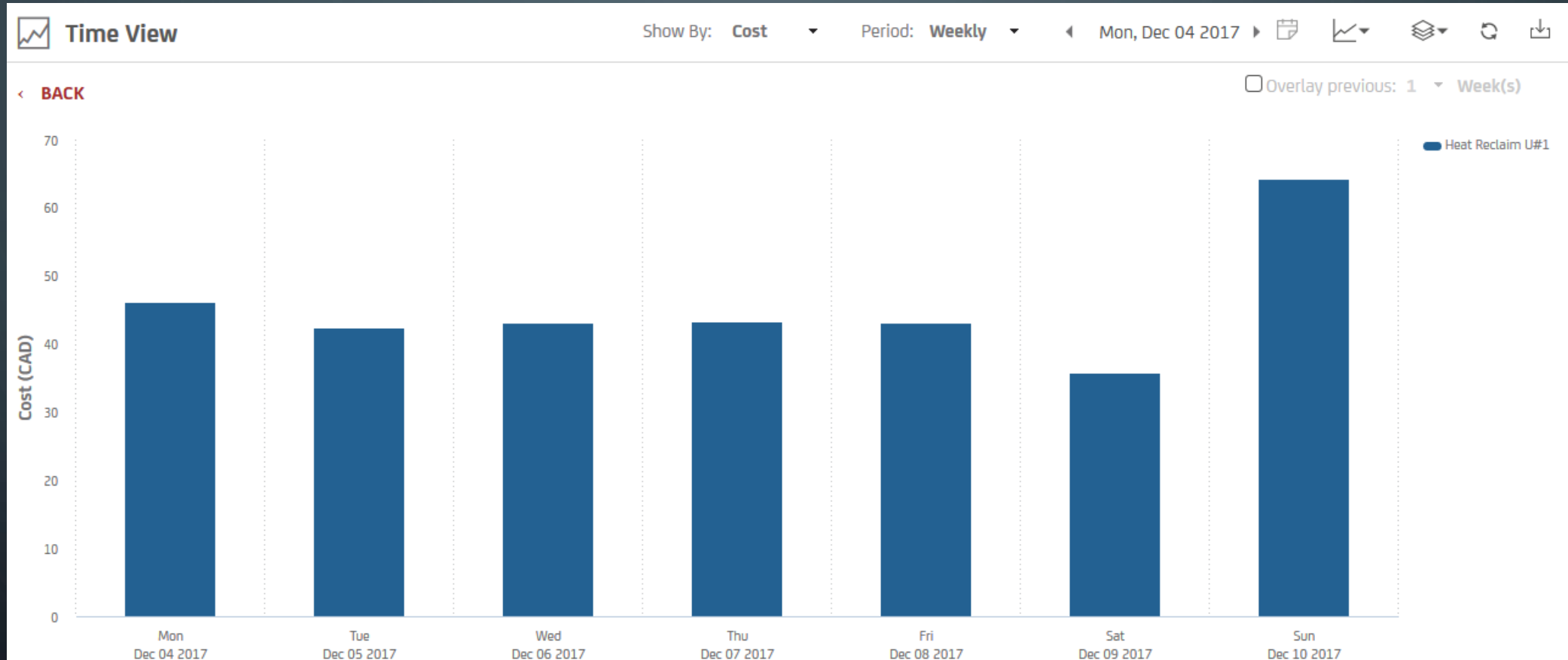
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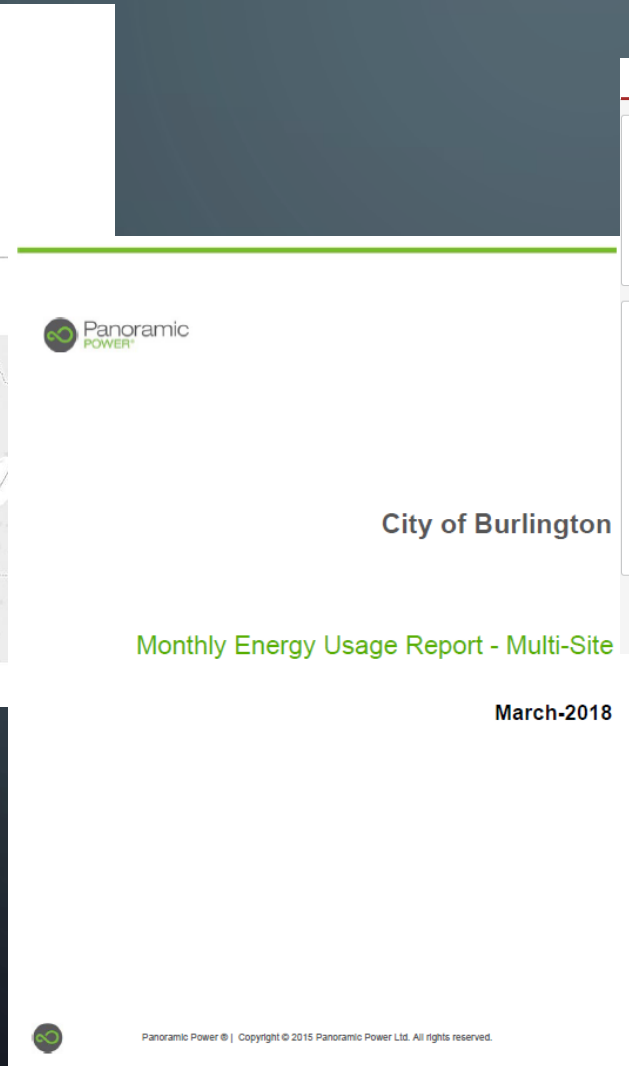
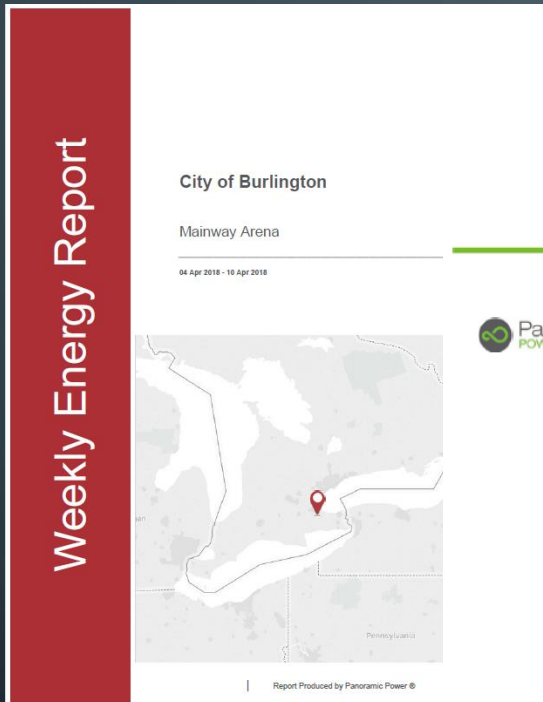
RESULTS & BENEFITS

- Identified errors in automation systems



RESULTS & BENEFITS

- Automated Reporting and Email and Text Alarms.



New Rule

Power & current rule For site: Mainway Arena

Power of Specific Device/s 1 device is Above 8 kW

Duration for more than 1 hours and 0 minutes

Schedule during site's off hours

Status: Enable

Severity: Medium

Email notification: Tom Pedlar Type user name, Email or select from list (+)

Push notification: Type user name or select from list (+)

Comment: Will be shown on alert/rule list

CANCEL APPLY

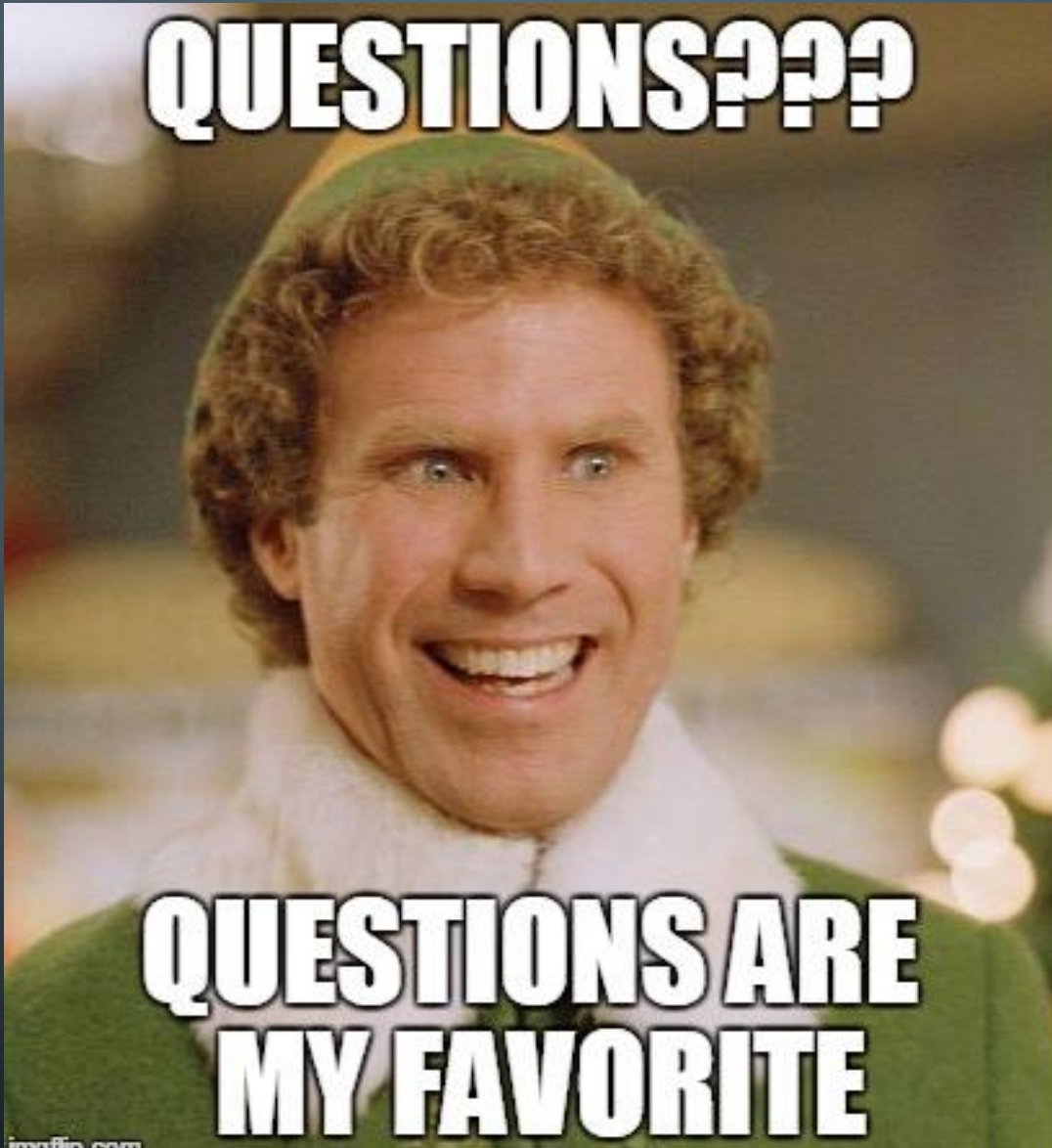
COSTS

- Tansley Woods Community Centre
 - 38 Sensors, 4 Bridges
 - Cost of Equipment, Install and Setup - \$10,103 (3,700)
- Appleby Ice Centre
 - 47 Sensors, 4 Bridges
 - Cost of Equipment, Install and Setup - \$12,368 (5,100)
- Mainway Recreation Centre
 - 39 Sensors, 6 Bridges
 - Cost of Equipment, Install and Setup - \$11,103 (4,300)
- Collegiate Pools
 - 6 Sensors, 1 Bridge
 - Cost of Equipment, Install and Setup – \$1,500 (8,00)

LESSONS LEARNED AND HELPFUL HINTS

- Don't bite off more than you can chew! – M&T applications take a lot of time.
- Cost for systems will vary based on the location of your equipment.
- Bad cell signals in mechanical and electrical rooms, make provisions for wired network connections
- Panel schedules and directories are correct and exist?
- Phases balanced ?

QUESTIONS???



**QUESTIONS ARE
MY FAVORITE**

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