

# TOWN OF INUXIK

"endeavor to be a leading example of sustainable innovation"





Arctic Resiliency: Community Accounts of Innovation

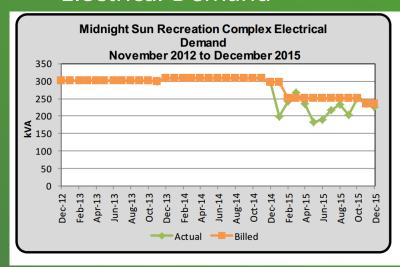




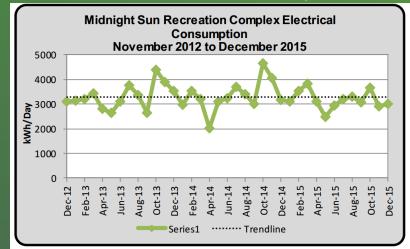


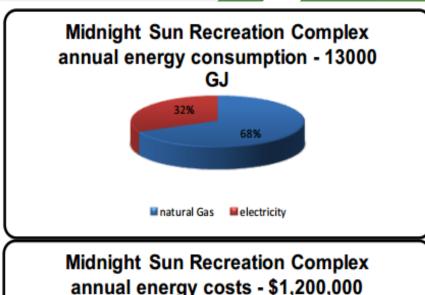
#### **Utilities Cost**

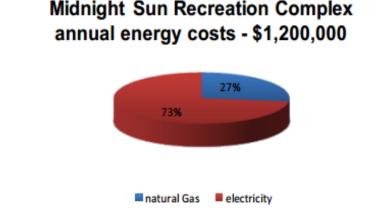
#### Electrical Demand



#### **Electrical Consumption**







In this facility natural Gas represents 68% of the energy used but only 27% of cost. A unit of electrical energy is about 5.5 times the cost of natural Gas.





#### BENEFITS OF USING BMON

- Real Time Notification
- Reduce Energy Use
- Reduce Energy Cost
- Simple Interface
- Data Graphing
- Improve Building Maintenance
- Accountability

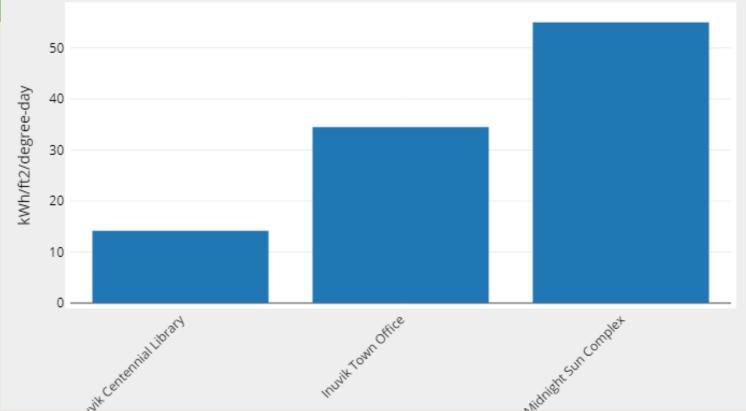




Compare Energy Use Across Buildings



Energy Use per Degree-Day per Sq. Ft.

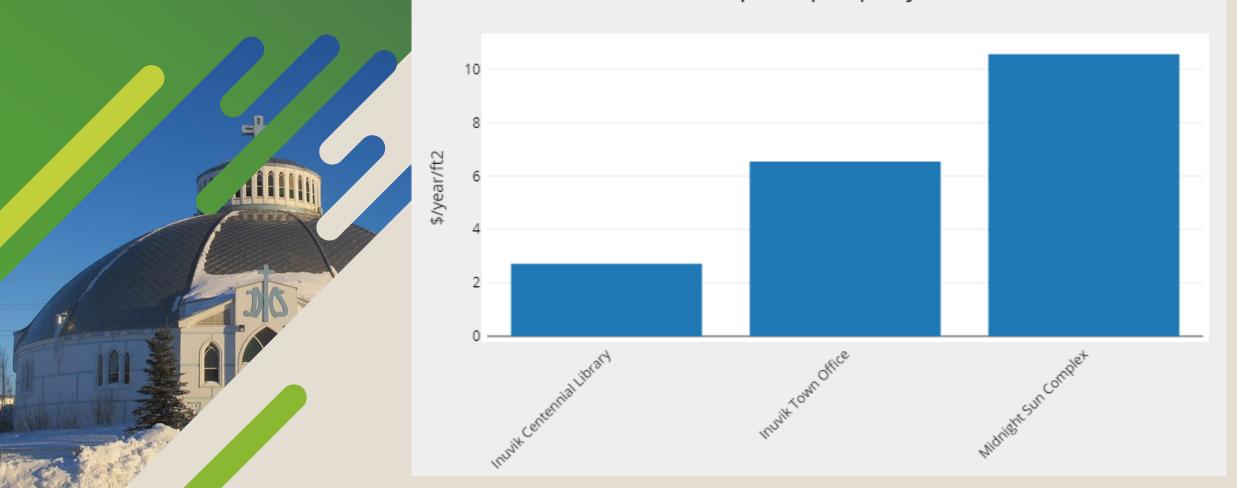






Compare Energy Cost Across Buildings

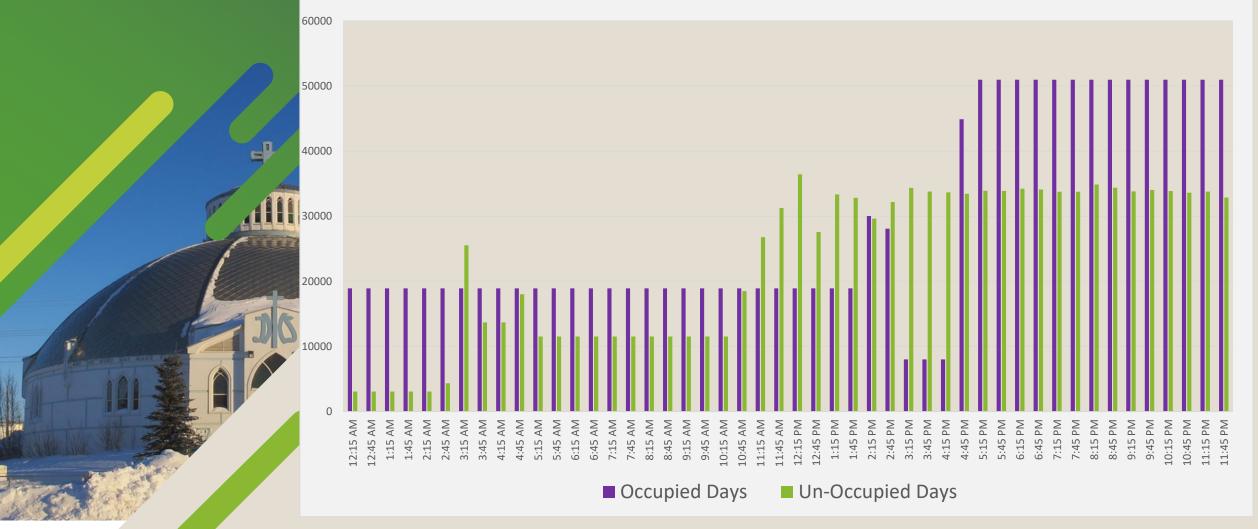
Cost per Sq. Ft per year





Heating Fuel use during Unoccupied Periods

**Town Office: Heating Fuel Use During Unoccupied Periods** 

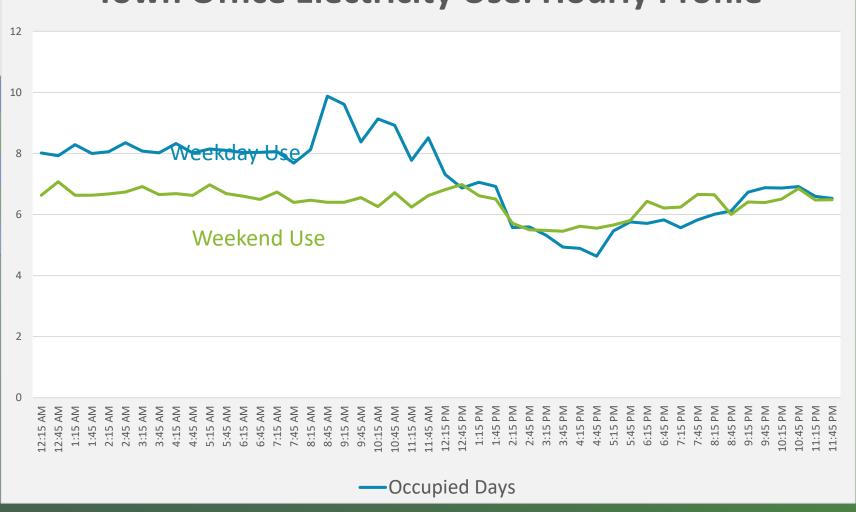




**Excess Unoccupied Electricity Use** 

#### **Town Office Electricity Use: Hourly Profile**

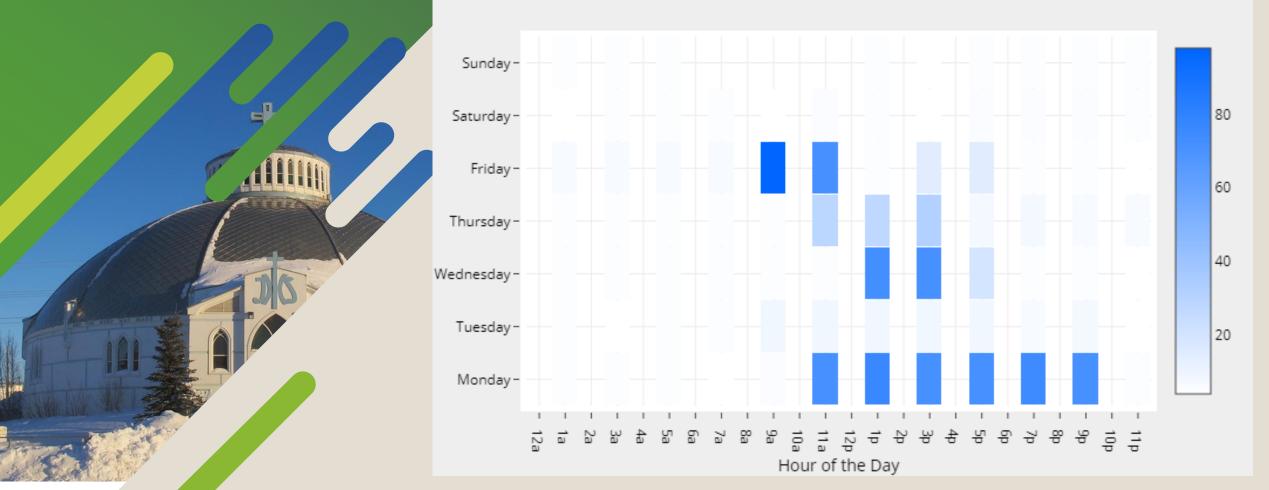






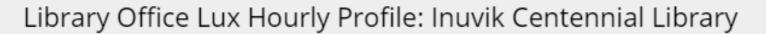
How Many Hours are Lights On?

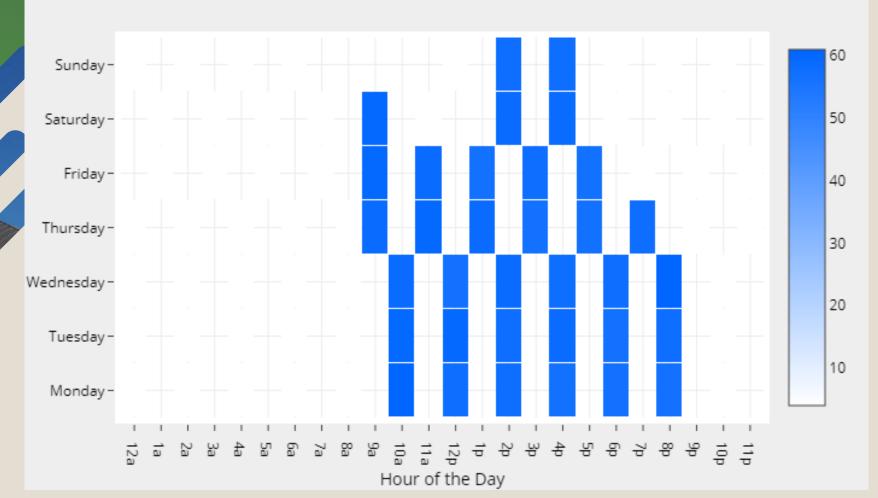






How Many Hours are Lights On?

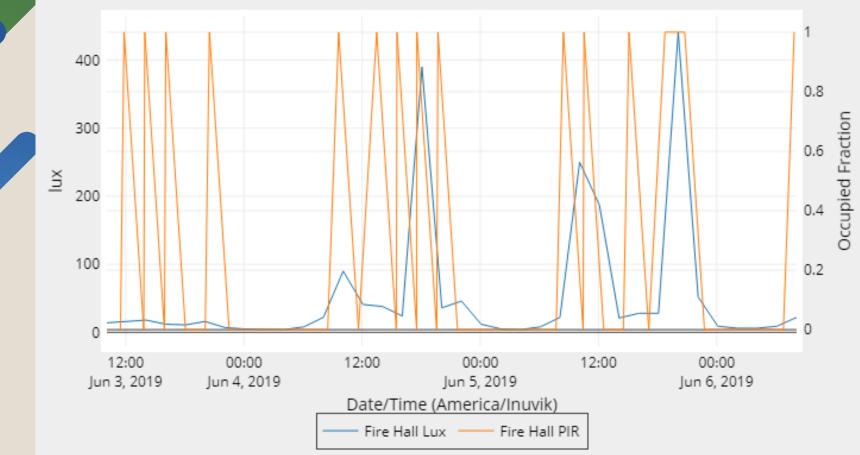






How Many Hours are Lights On when occupied?

Plot Sensor Values over Time: Inuvik Town Office



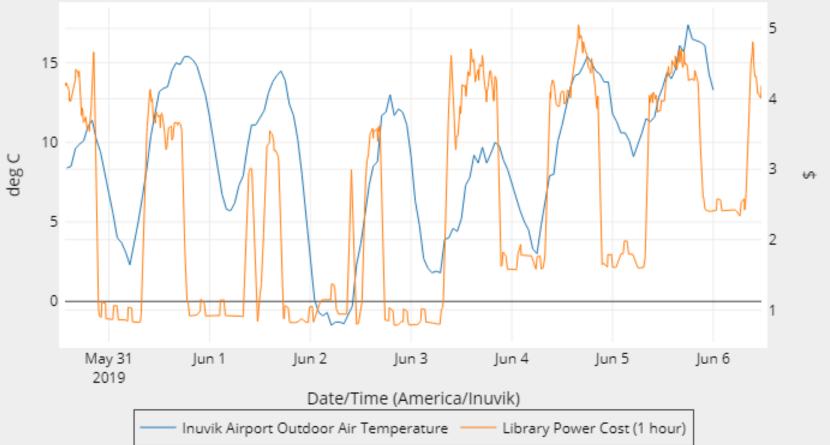






Outdoor Temperature vs. Power Cost

Plot Sensor Values over Time: Inuvik Centennial Library



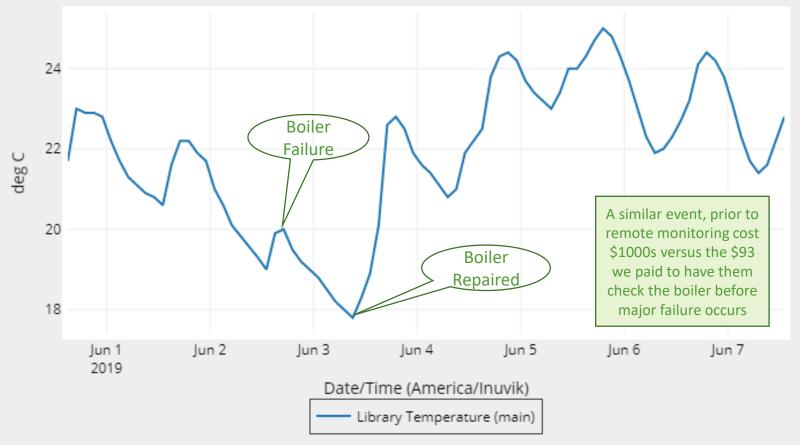




Avoiding Catastrophic Failure

Plot Sensor Values over Time: Inuvik Centennial Library





# **Monitoring Gadgets**

Wireless Sensor Installs





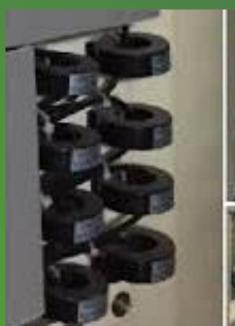
# **Monitoring Gadgets**

Wireless Sensor Installs



WattsOn Power Monitor

Current Transformers





CONTRACTOR OF STREET



## **Monitoring Gadgets**

Wireless Sensor Installs



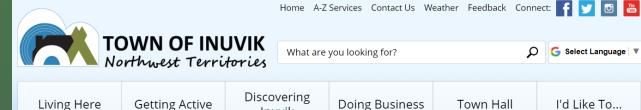
Reading Tekmar Controller Sensor



Ultrasonic Flow Meters







Inuvik

**Building Monitoring Information** 



#### Town of Inuvik Remote Building Monitoring





https://www.inuvik.ca/en/buil ding\_monitoring.asp



#### **Partners**







# ARCTIC ENERGY ALLIANCE





# THANK

Y ou!

QUESTIONS



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