

AGENDA
COUNCIL COMMITTEE MEETING
MUNICIPAL DISTRICT OF PINCHER CREEK
September 12, 2023
2:00 pm
Council Chambers

- 1) Approval of Agenda
- 2) Delegations
 - a) 2:00 pm to 2:30 pm – Castle Mountain Resort
 - b) 2:30 pm to 3:00 pm – Municipal Energy Project
- 3) Closed Session
 - a) Draft Policy C-CO-001 – FOIP Sec. 23.1.a
 - b) Draft Policy C-HR-002 – FOIP Sec. 23.1.a
 - c) Draft Policy C-FIN-537 – FOIP Sec. 23.1.a
 - d) Monetary Adjustments – FOIP Sec. 23.1.a
- 4) Round Table
- 5) Adjournment

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www.mdpincercreek.ab.ca



August 11, 2023

Castle Mountain Resort

Re: Changes to Solid Waste Services

Dear Castle Mountain Resort,

The purpose of this letter is to advise of changes to solid waste services. Currently, solid waste services are provided to Castle Mountain Resort (“CMR”) by the Crowsnest Pincher Creek Landfill Association (“CNPC”). These services are fully funded by the Municipal District of Pincher Creek No. 9 (“MD”). The MD has been actively working to update our Utility Bylaw. During this process, it came to our attention that this arrangement has always been outside of the Utility Bylaw and that there is no agreement to fund solid waste services.

MD Council met with CMR in April of 2023 to discuss the arrangement and a path forward. Effective January 1, 2024, the MD will continue to fund the below bins, provided the service is not abused. However, the MD will re-evaluate the arrangement as needed and will provide appropriate notice should any changes be required.

- 1 Recycling Bin – 30 cubic yards – pick-up as needed
- 1 Waste Bin – 45 cubic yards – pick-up weekly

The MD will no longer fund nor provide any other bin, including but not limited to, the 30 cubic yard Metal Bin and 30 cubic yard Staff Bin. If these services are required after December 31, 2023, we encourage CMR to work directly with CNPC or another third party.

We trust that the foregoing provides a sufficient explanation. Should you have any questions or concerns regarding the foregoing, please contact MD Administration.

Yours truly,

Roland Milligan



MUNICIPAL CLIMATE CHANGE ACTION CENTRE *MUNICIPAL ENERGY MANAGER PROGRAM: CLOSEOUT*

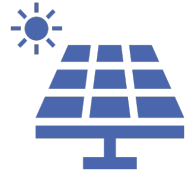
MD of Pincher Creek
September 2023



PURPOSE OF PRESENTATION



**What's
been done**



**Completing
this year**

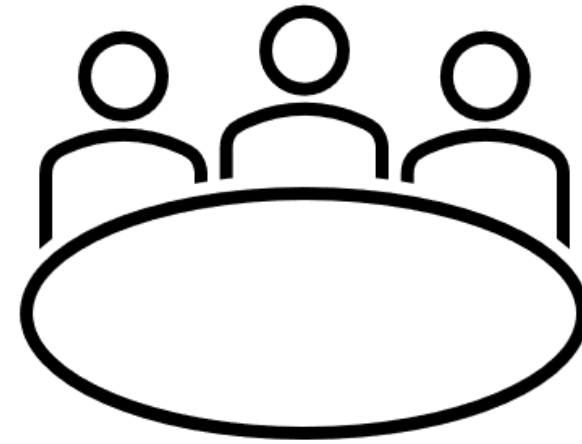


**Looking
forward**

WHAT'S BEEN DONE?

ENERGY TEAM & PRELIMINARY TARGETS

- ▶ Indicators of Success:
 - ▶ Reduce MD/Town baseline 2019 GHG emissions by 5%
 - ▶ Development of Energy Management Plans to monitor effectiveness of Energy Conservation Measures
 - ▶ Adoption of Energy Plans & Energy Policy by MD & Town

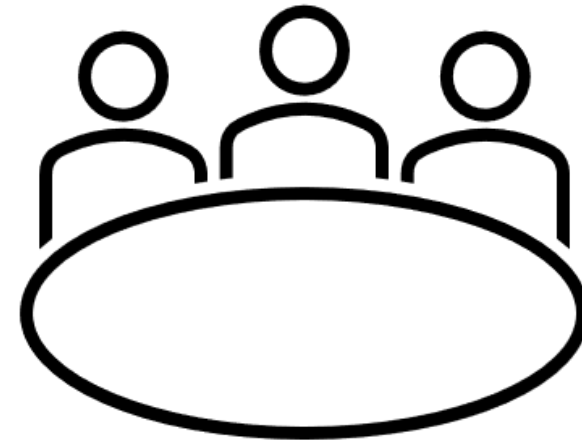


WHAT'S BEEN DONE?

ENERGY TEAM & PRELIMINARY TARGETS

▶ Achievements

- ▶ Reduce MD/Town baseline 2019 GHG emissions by 8%
- ▶ Energy management assessment increased from 41% ->69% in Y2
- ▶ Implemented 94 Energy conservation measures
- ▶ Launched QUEST net zero accelerator program to support policy and plan development



WHAT'S BEEN DONE?

ENERGY SCANS & ENERGY MANAGEMENT PLANS

- ▶ Analyzed all facilities
- ▶ Full energy scans done on larger facilities;
 - ▶ Multi-Purpose Facility
 - ▶ Admin Building/PW Office & Shop
 - ▶ Water Treatment Plant
 - ▶ Community Hall
 - ▶ Airport Terminal and Shop
 - ▶ Community Recreation Facility

WHAT'S BEEN DONE?

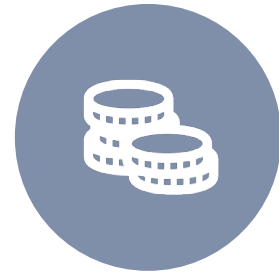
ESTIMATED PROJECT SAVINGS



QUOTED
COSTS:
\$548,000
\$163,000
WITH REBATES



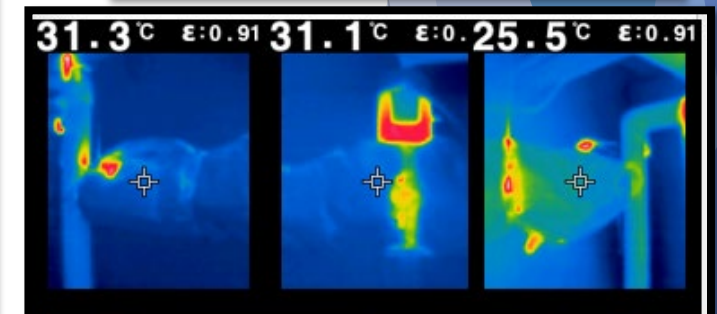
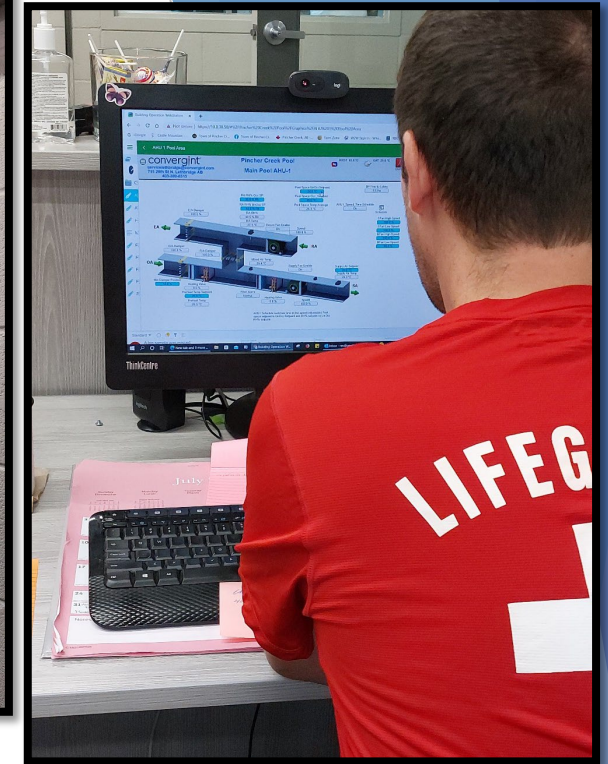
ESTIMATED
ENERGY
SAVINGS:
~60,067 \$/YR



SIMPLE
PAYBACK WITH
FUNDING:
2.7 YRS

WHAT'S BEEN DONE? ARENA AND POOL

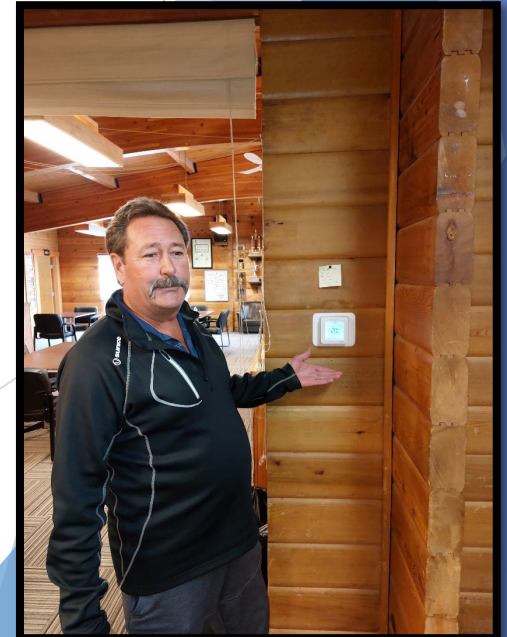
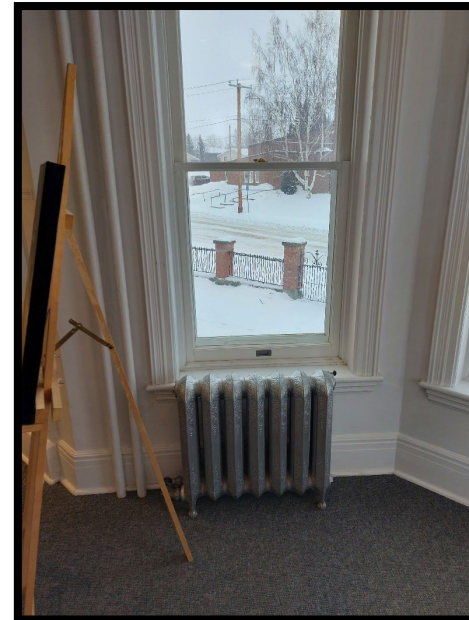
- ▶ New Building Management System
- ▶ Insulated hot water piping
- ▶ New arena furnaces
- ▶ Gym lighting retrofit
- ▶ Endotherm additive
- ▶ REALice resurfacing technology
- ▶ Electric Vehicle Chargers



WHAT'S BEEN DONE?

Town Facilities

- ▶ Lebel lighting retrofit
- ▶ Lebel Window trial
- ▶ Re-commission daycare HVAC
- ▶ Community rec facility programmable thermostats
- ▶ Thermostat policy in all water facilities
- ▶ Utility bill adjustments
- ▶ Off-grid welcome signs
- ▶ Hot water tank replacement at Veterans campground



WHAT'S BEEN DONE? MD FACILITIES

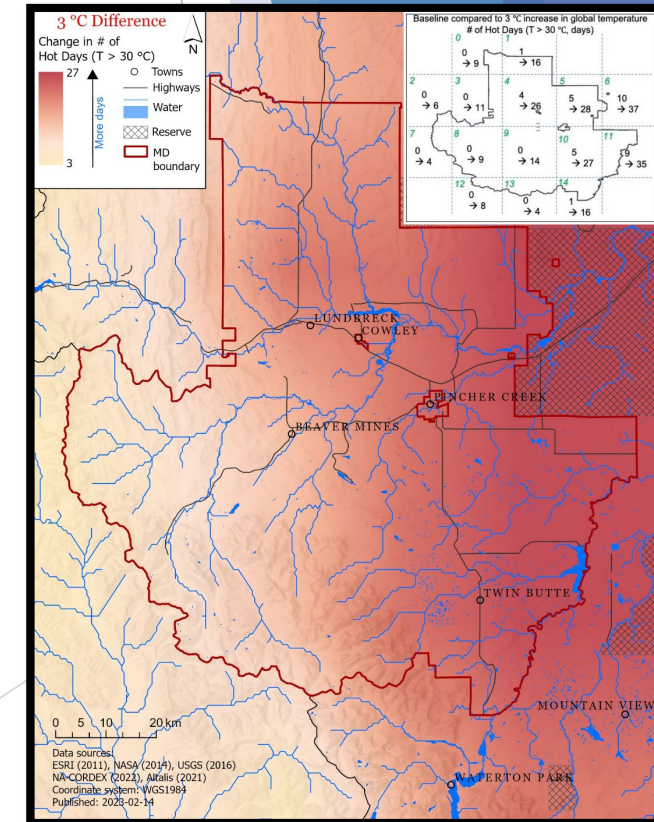
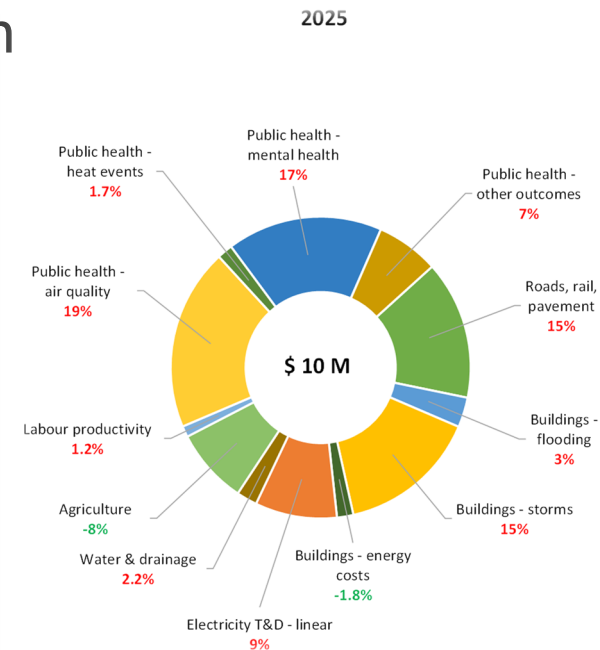
- ▶ Re-commission MD Administration building HVAC
- ▶ Endotherm boiler additive
- ▶ Programmable thermostats at PW shop
- ▶ Programmable thermostats at Airport terminal
- ▶ Lighting retrofit at airport terminal
- ▶ Lighting retrofit at PW Quanset, sand shed, bobby burns park
- ▶ EV Chargers at PW and Administration building
- ▶ Eco Center Solar



WHAT'S BEEN DONE?

CLIMATE ADAPTATION PLAN

- ▶ Team development with Town, MD, Piikani, and PC-REMO
- ▶ Staff and area showcase
- ▶ Climate Projections
- ▶ Survey (211 valid responses)
- ▶ Economic analysis on the cost of inaction
- ▶ Climate Risk analysis
 - ▶ Staff and stakeholder risk assessment
 - ▶ Open House (40 attendees)
- ▶ Adaptation plan
 - ▶ Staff and stakeholder plan development
 - ▶ Open House (20 attendees)
- ▶ Final Plan
- ▶ 2-page brochure



WHAT'S BEEN DONE?

EMPLOYEE & COMMUNITY ENGAGEMENT

- ▶ Monthly newsletters
- ▶ Energy lunch and learns
- ▶ Newspaper and social media stories
- ▶ Dedicated website pages
- ▶ Trade show
- ▶ Surveys
 - ▶ CEIP
 - ▶ Lebel solar

PINCHER ENERGY
Lowering costs, fostering independence

CLIMATE RESILIENCE AND ADAPTATION
Final Report and individual reports available on Town and Municipal District Websites

ENERGY TIPS

ENERGY GOALS

PROJECT HIGHLIGHT: ELECTRIC VEHICLE CHARGING

ESTIMATED SAVINGS

2023 PROJECTS

CANADA

Renewable energy expert to lead research on EV charging stations

By Gillian Francis, Local Journalism Initiative Reporter Shootin' the Breeze
Wed., May 4, 2022 | ⌚ 3 min. read

News / Local News

Municipal energy hopes to reduce emissions, lower costs

Bill Atwood
Aug 30, 2021 • August

REALice system will lower greenhouse gas emissions at Pincher Creek MCC Arena

By Gillian Francis, Local Journalism Initiative Reporter Shootin' the Breeze
Wed., Dec. 1, 2021 | ⌚ 2 min. read

CANADA

Calgary engineer takes on new community role, putting plans for eco-friendly building into motion

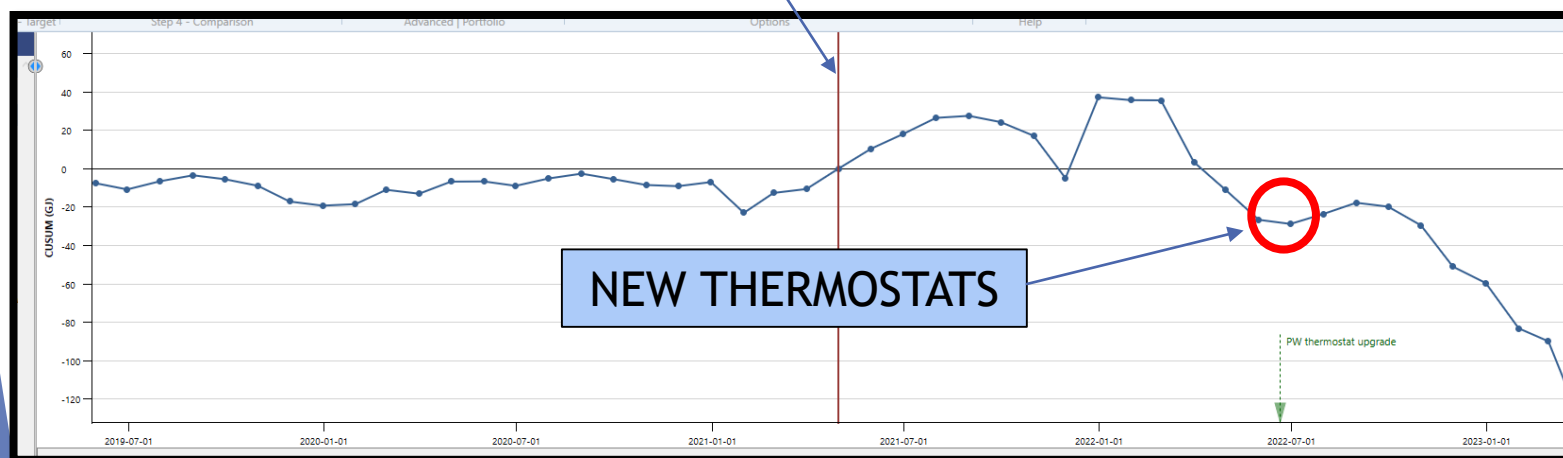
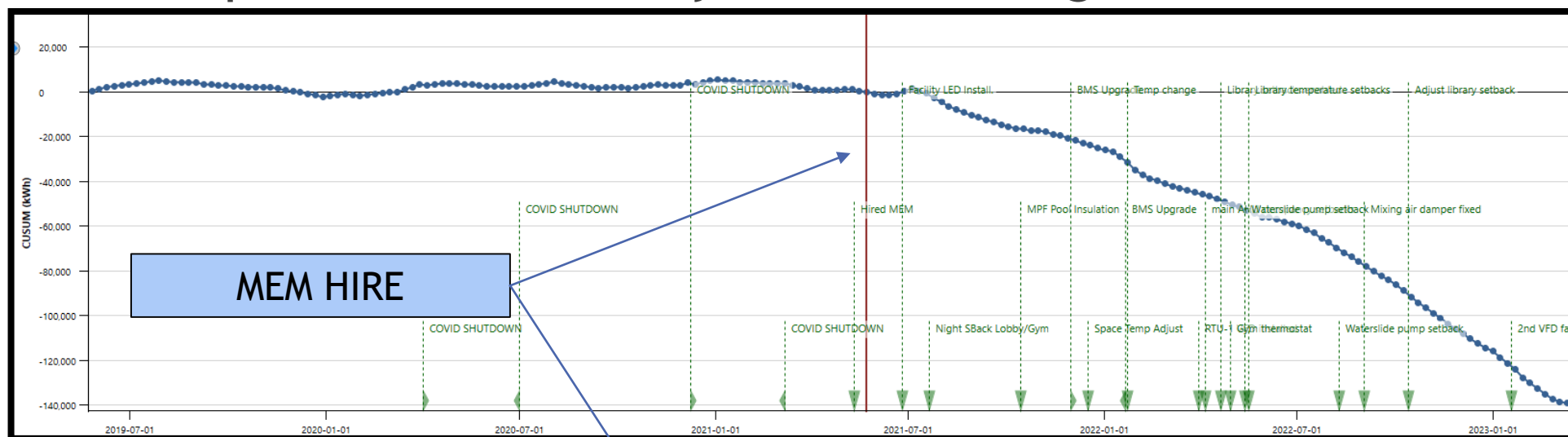
By Gillian Francis, Local Journalism Initiative Reporter Shootin' the Breeze
Wed., Sept. 15, 2021 | ⌚ 2 min. read



WHAT'S BEEN DONE?

ENERGY MODELS (MEASURE & VERIFY)

▶ Example: MPF Electricity & PW Building Gas



Models for:

- ▶ Arena Gas
- ▶ Arena Electricity
- ▶ MPF Gas
- ▶ MPF Electricity
- ▶ Admin/PW Office & Shop Electricity
- ▶ Admin Gas
- ▶ PW Office & Shop Gas
- ▶ Lebel Mansion Gas
- ▶ Lebel Mansion Electricity

WHAT'S BEEN DONE?

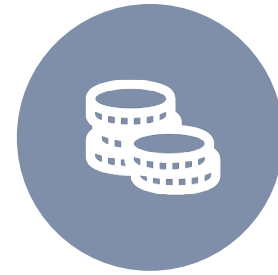
UTILITY BILL ANALYSIS (MEASURE & VERIFY)



QUOTED
COSTS:
\$548,000
\$163,000
WITH REBATES



ACTUAL
ENERGY
SAVINGS:
~79,514 \$/YR

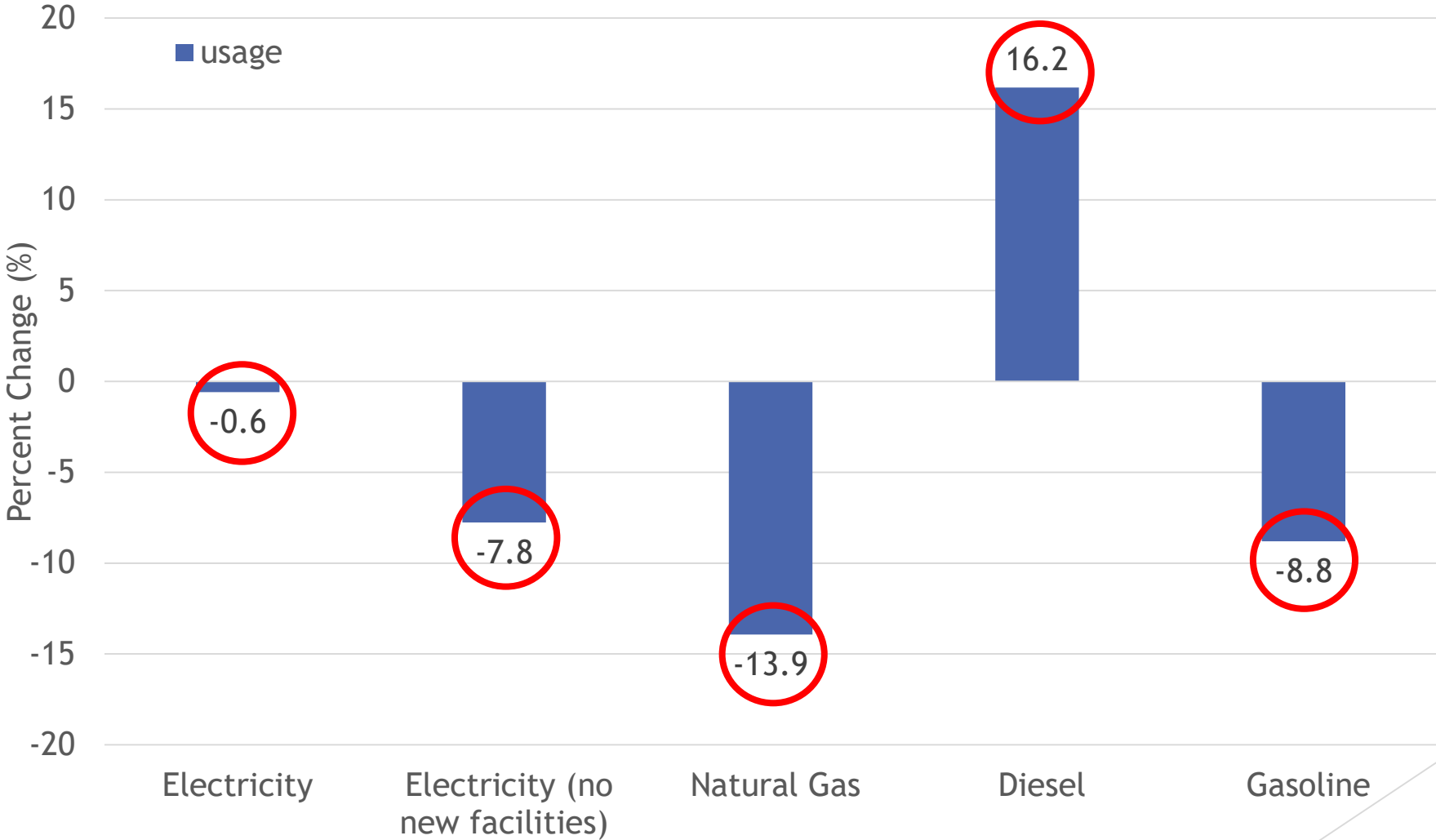


SIMPLE
PAYBACK WITH
FUNDING:
2.1 YRS

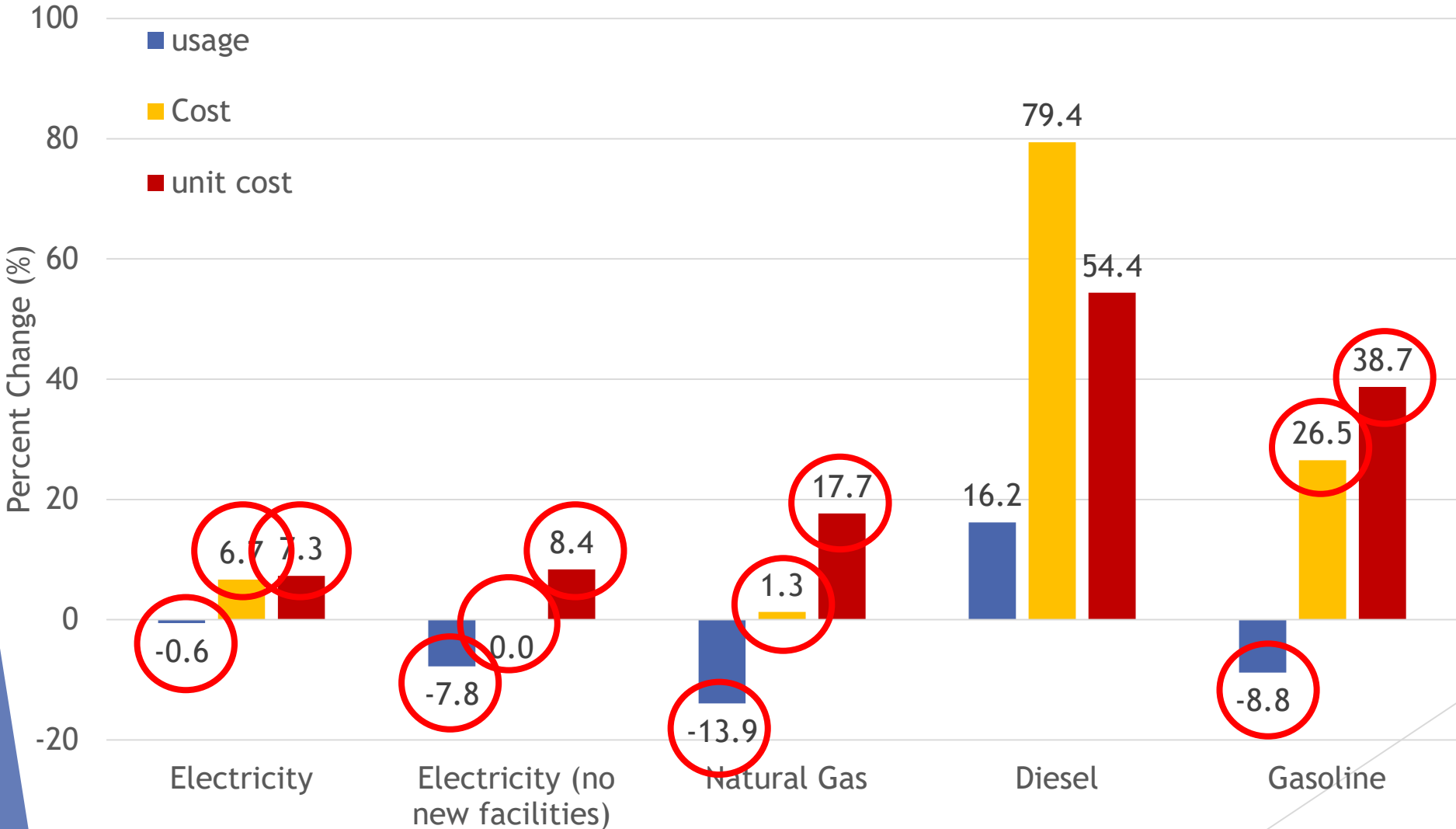
TOWN: ~74,126 \$/YR MD: ~5,388 \$/YR

WHAT'S BEEN DONE?

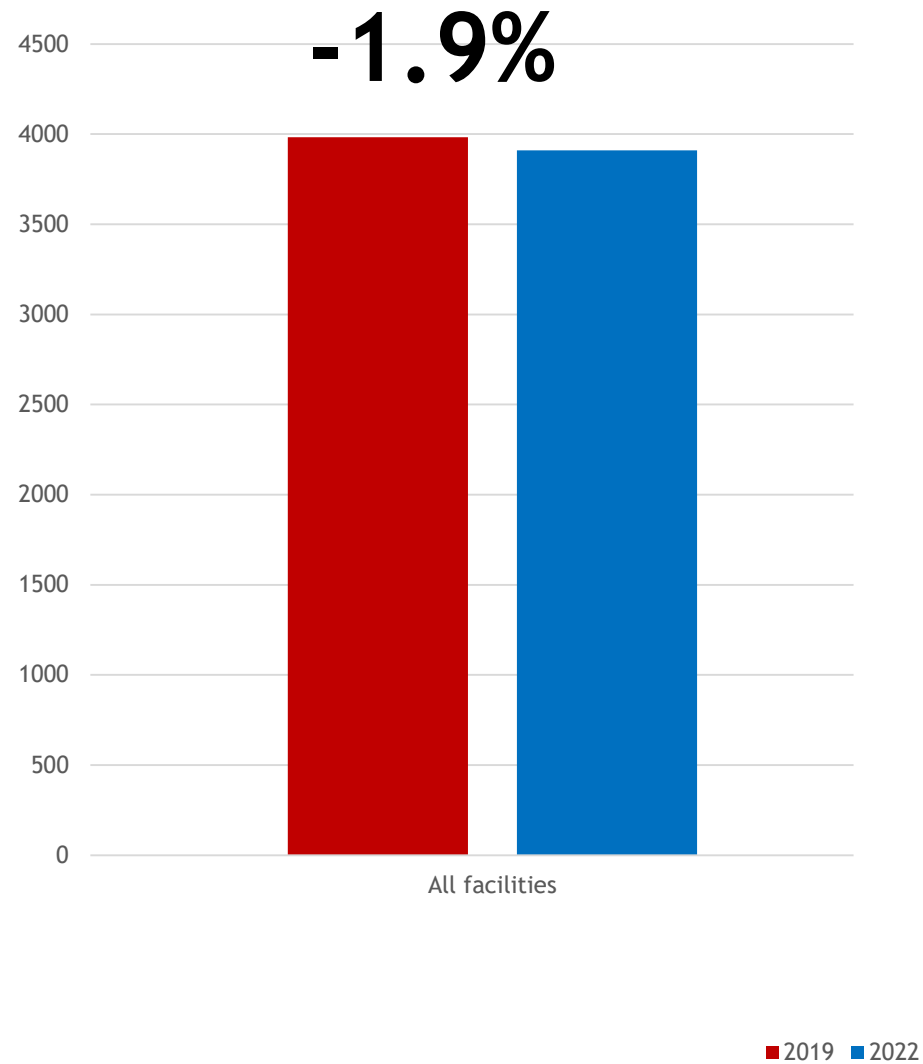
ENERGY USAGE REDUCTION



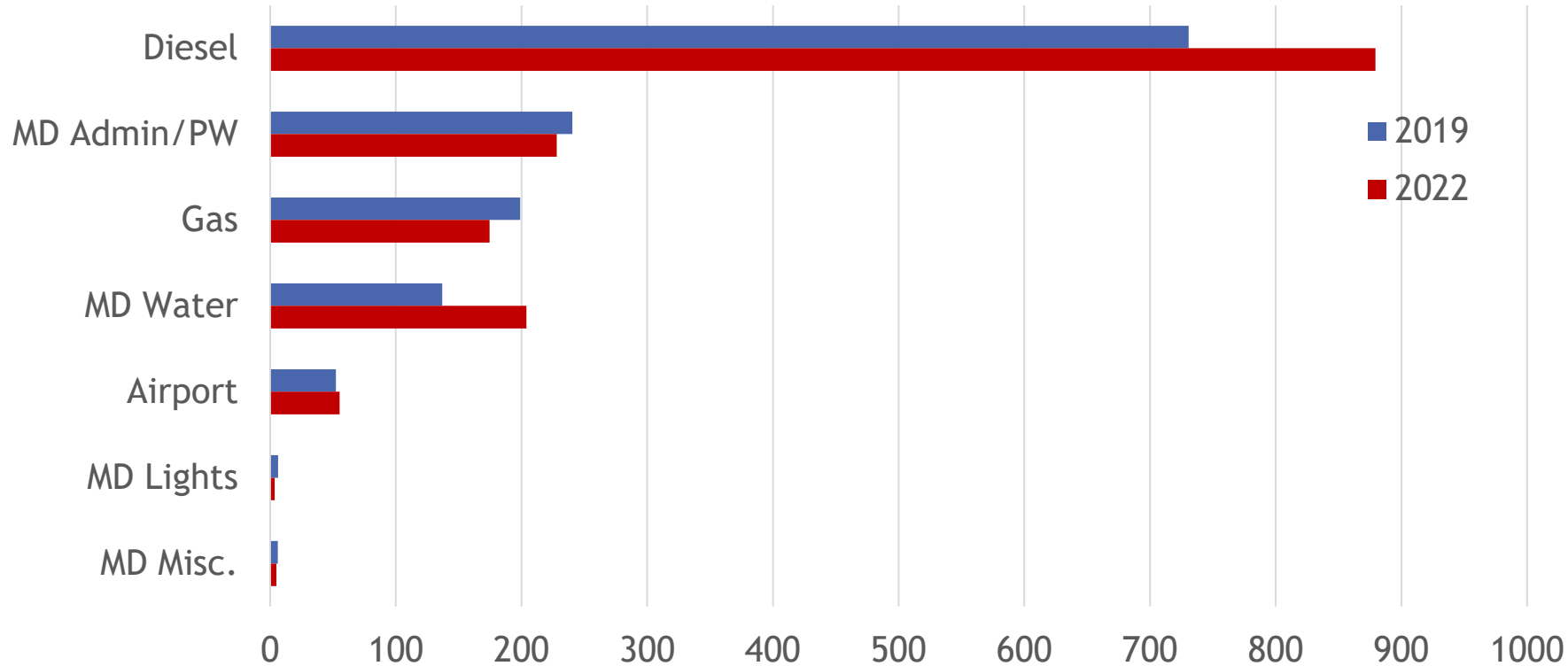
WHAT'S BEEN DONE? ENERGY PRICING



WHAT'S BEEN DONE? GHG REDUCTION



WHAT'S BEEN DONE? GHG REDUCTION

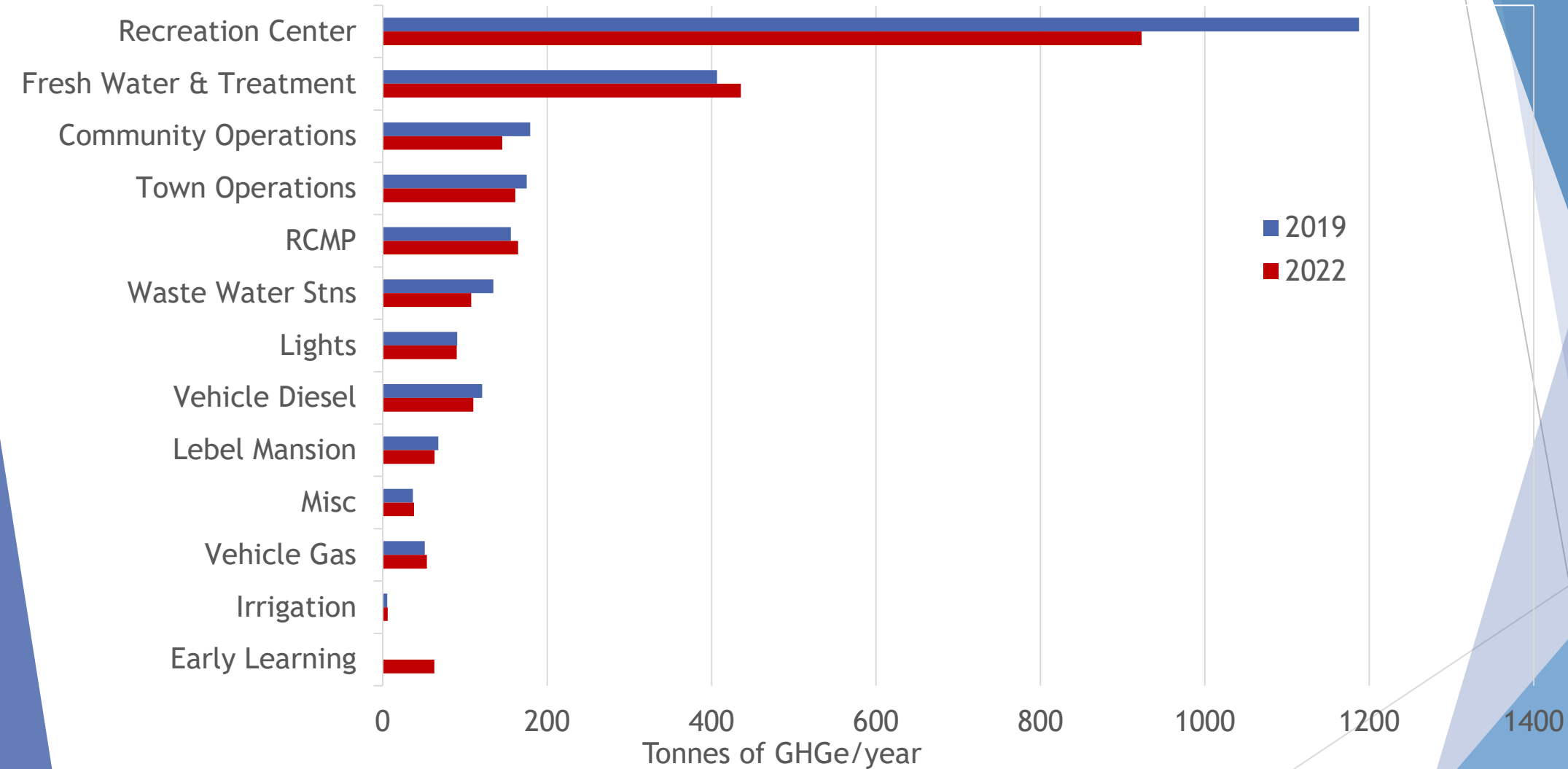


Why does it matter?

Carbon Pricing

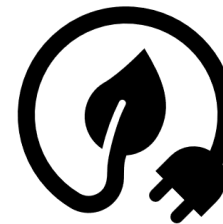
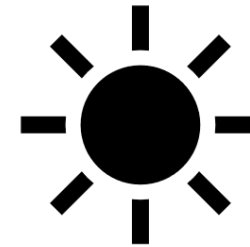
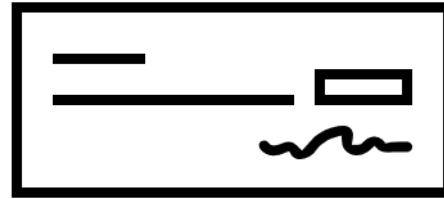
- \$20/ton CO₂ in 2019
- Increasing \$15 annually going forward (Currently \$65/ton)
- \$170/ton by 2030

WHAT'S BEEN DONE? GHG REDUCTION



THIS YEAR ENERGY PROJECTS

- ▶ Lebel Solar
- ▶ Airport Solar
- ▶ Lebel Windows
- ▶ Multi purpose electrical tracking system
- ▶ Airport furnaces
- ▶ Public works furnace
- ▶ FCM application for Arena retrofits
- ▶ Pool and Arena Retrofits pending GICB grant acceptance



THIS YEAR NRCAN NET ZERO



Net-Zero Communities Accelerator Program

- ▶ MD and Town partnership
- ▶ Community energy and emissions plan
- ▶ Support policy development
- ▶ Support long term plan identification
- ▶ Develop capacity to leverage energy transition

QUEST 


CIER
CENTRE FOR INDIGENOUS ENVIRONMENTAL RESOURCES

 Community Energy
Association

 Eco-Ouest
Eco-West

 Municipal
Climate Change
Action Centre

THIS YEAR CEIP DEVELOPMENT

June 29, 2023
FCM Application

Q4 2023
**Program
development**

Q2 2024
**Program
Launch**



July 2023

Sept 2023

Nov 2023

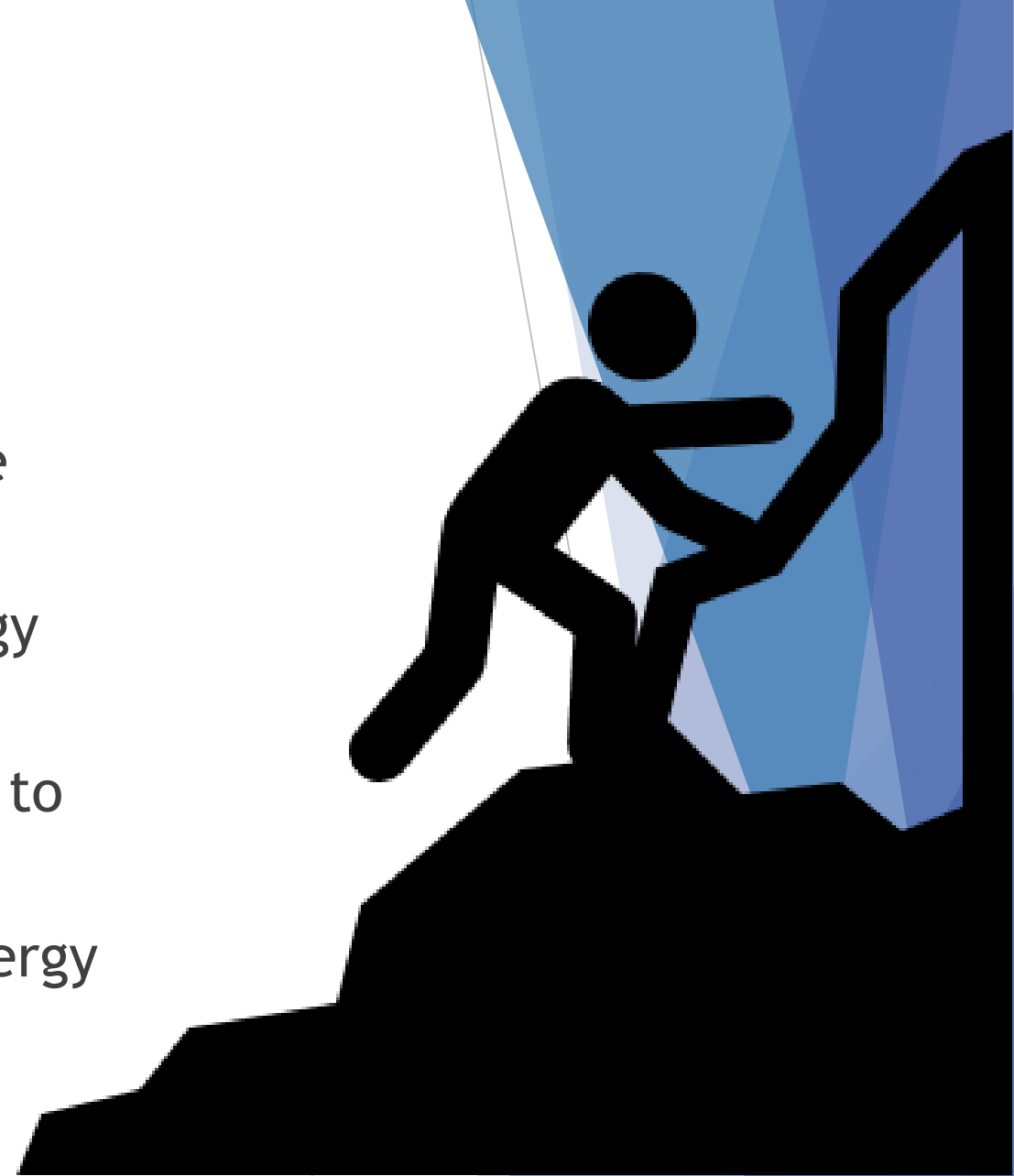
Feb 2024

April 2024

THIS YEAR

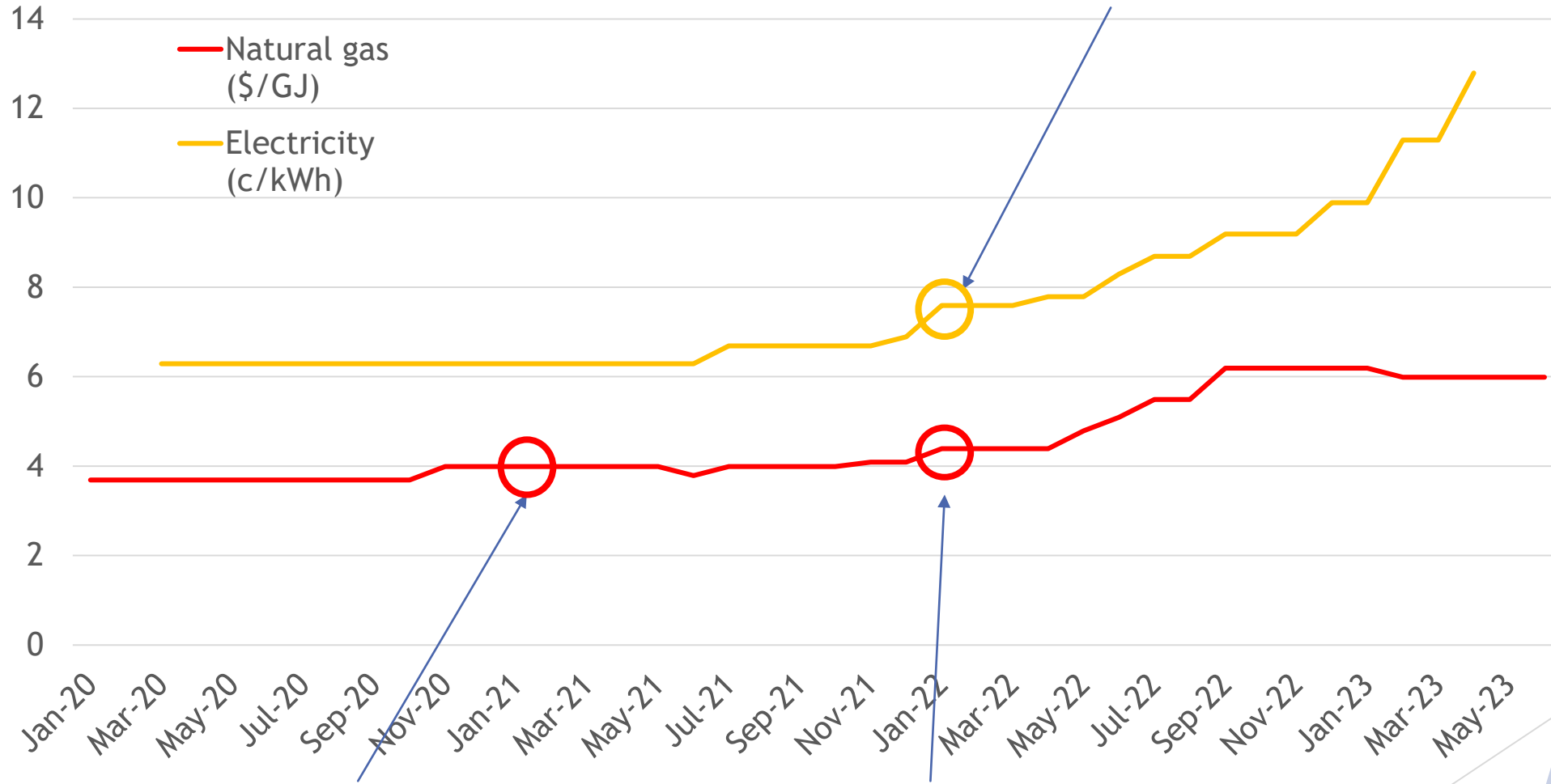
LONG TERM PLAN DEVELOPMENT

- ▶ Identify pathways for facilities to continue reducing costs and emissions
- ▶ Recommendations to improve future energy management
- ▶ Recommendations on investment pathway to community net zero
- ▶ Final report in the form of a long-term energy management plan



THE FUTURE ENERGY PRICING

Electricity contract start date: January 2022 (MD 2026, Town 2024)



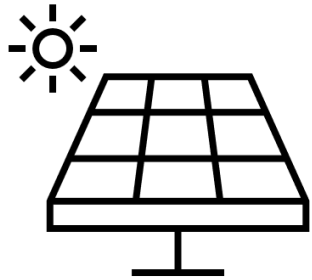
MD Gas contract start date:
January 2021 (2028)

Town Gas contract start
date: January 2022 (2026)

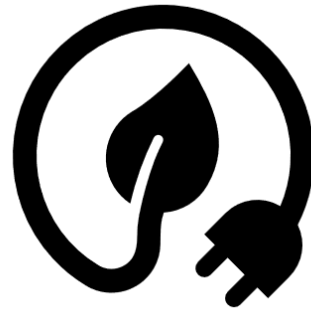
THE FUTURE

ENERGY PRICING

- ▶ Reached \$0.3/kWh this summer.
- ▶ Important to reduce exposure to these rising prices
- ▶ Present long-term contract renewal rates @ \$0.11-0.12/kWh



**Generation:
\$0.10/kWh**



**Efficiency upgrades
\$0.01-0.08/kWh**

THE FUTURE

Climate adaptation

- ▶ Implementation requires a “champion” to push projects
- ▶ Piikani excited to continue working in partnership
 - ▶ Our project partnership is getting international renown
- ▶ PC-REMO sees value in keeping team together
- ▶ 35 adaptation measures identified
- ▶ Federal Government has \$3.375 billion over 10 years in funding committed to adaptation projects



Questions

SUMMARY: What's been done?

- ▶ Energy usage/cost analysis
- ▶ GHG emissions inventory
- ▶ Inter-municipality Energy team
- ▶ \$80,000 in annual energy savings
- ▶ \$380,000 in grant funding achieved
- ▶ \$5M in funding applications
- ▶ 94 ECM's implemented
- ▶ Energy modeling (measure & verify)
- ▶ Employee & community engagement
- ▶ Climate resiliency & adaptation plan
- ▶ Inter-municipality climate team

SUMMARY: What else is possible?

- ▶ Clean Energy Improvement Program (CEIP) implementation
- ▶ Climate adaptation implementation
- ▶ Sustainable Policy
- ▶ Sustainable energy budget
- ▶ Various funding/grant streams
- ▶ Sustainable energy project management
- ▶ ...