

Energy Conservation & Demand Management Plan

2024 Plan — Revised Target Addendum

Trillium Health Partners | Prepared: September 2026

1. Purpose of This Addendum

Trillium Health Partners' Energy Conservation & Demand Management (ECDM) Plan, 2024, established targets for 2029 of a ~15% reduction in electricity consumption, a ~15% reduction in natural gas consumption, and a ~19% reduction in carbon-equivalent emissions, each measured against the 2023 baseline year. Those targets assumed a capital program of conservation measures across all three sites.

This addendum revises the ECDM targets to reflect a more realistic near-term trajectory, and re-baselines them to 2019 — the last full year before the COVID-19 pandemic disrupted site operations and utility consumption patterns — rather than 2023. It also proposes a set of conservation measures that can be delivered immediately through existing infrastructure, THP staff, and operational/behavioural change, ahead of any future capital-funded projects.

2. Revised ECDM Targets (2029)

Facilities Operations has confirmed the following revised targets. There is no carbon emissions target under this revision; GHG emissions will continue to be tracked and reported for information, and are expected to move in the same direction as electricity and natural gas.

- ~1% reduction in electricity consumption by 2029, measured against the 2019 baseline year
- ~2% reduction in natural gas consumption by 2029, measured against the 2019 baseline year
- No formal carbon-equivalent emissions target; GHG emissions continue to be monitored and reported annually

2.1 Baseline and Target Values (Site-Wide)

Utility	2019 Baseline	2023 Actual	Change 2019→2023	2029 Target (vs. 2019)
Electricity (kWh)	61,226,676	62,856,495	+2.7%	60,614,409 (–1%)
Natural Gas (m ³)	9,476,999	8,312,891	–12.3%	9,287,459 (–2%)

Table A. Site-wide utility consumption: 2019 baseline, 2023 actual, and revised 2029 target.

2.2 What This Means Operationally

Natural gas consumption has already fallen 12.3% since 2019, comfortably exceeding the revised 2% target. No further natural gas reduction is required to meet this target; the priority for natural gas is to hold current performance and not lose ground, primarily through continued steam trap and BAS maintenance.

Electricity consumption has risen 2.7% since 2019, driven largely by increased Scope 2 emissions factors and consumption growth at Credit Valley Hospital and Mississauga Hospital. To reach the revised target, site-wide electricity use must fall by approximately 2,242,000 kWh (about 3.6%) from the current 2023 level by 2029. This is the primary focus of the measures below.

2.3 Natural Gas — Confirmed with 2024 and 2025 Actuals

The 2024 ECDM Plan's utility figures ran through calendar year 2023. Facilities Operations' utility bill tracker (Blackstone invoice data, CVH/MH/QHC three-site scope) now provides full calendar-year actuals for 2024 and 2025, allowing the revised natural gas target to be checked against more recent data rather than 2023 alone.

Year	Natural Gas (m ³)	Change vs. 2019 Baseline
2019 (baseline)	9,476,999	—
2023	8,312,891	-12.3%
2024	8,337,602	-12.0%
2025	8,698,296	-8.2%
2029 Target	9,287,459	-2% (target)

Table A1. Natural gas consumption, 2019 baseline through 2025 actuals, vs. the revised 2029 target.

Both 2024 and 2025 remain well clear of the -2% target, so the conclusion in Section 2.2 holds with current data: no further natural gas reduction is required to meet the revised target. 2025 consumption ticked up from 2024 (still 8.2% below 2019), but not yet a cause for concern. The steam trap inspection measure in Section 3.1 is intended to help hold this position rather than let it drift back toward the 2019 baseline.

3. Proposed Conservation Measures

The measures below were carried forward from the 2024 plan's analysis and re-scoped as immediate, no-cost actions: each relies on existing Building Automation System (BAS) capability, Facilities Operations trades and engineering labour, or staff behaviour, rather than waiting on equipment purchase or contracted retrofit work. They are grouped by site; a site-wide behavioural program is listed separately. Estimated savings are directional and should be confirmed through metering once implemented.

3.1 THP Wide Measures

Measure	Utility Targeted	Description
BAS schedule & setback re-tuning	Electricity, Natural Gas	Work with Honeywell to re-tune existing night/weekend setback schedules and unoccupied-zone setpoints without new equipment.
Continue steam trap inspection rounds	Natural Gas	Fold routine steam trap checks into existing in-house trades rounds to protect the gains already achieved since 2019.
Off-hours equipment shutdown protocol	Electricity	Staff-driven checklist for powering down non-clinical monitors, task lighting, and office equipment outside working hours.
Green Team / staff engagement campaign	Electricity, Natural Gas	Re-activate Partners in Project Green style engagement and Earth Hour messaging to reinforce conservation behaviour site-wide.
Free utility & IESO energy assessments	Electricity, Natural Gas	Use no-cost Save on Energy / utility-funded audits to build a shovel-ready project list for when capital becomes available.

Table B. THP wide conservation measures.

3.2 Credit Valley Hospital

Measure	Utility Targeted	Description
Extend OR HVAC setbacks (unoccupied ORs)	Electricity, Natural Gas	Apply the existing Brachytherapy OR setback approach to additional unoccupied operating rooms using current BAS logic — no new controls hardware.
AHU coil visual inspection & manual cleaning	Electricity, Natural Gas	In-house mechanical staff perform manual coil cleaning on accessible AHUs during scheduled PM rounds in place of the contracted cleaning program.
Lighting sweep & occupancy sensor recalibration	Electricity	Recalibrate existing occupancy sensors and conduct after-hours lighting sweeps in low-traffic corridors and offices.

Table C. Credit Valley Hospital conservation measures.

3.3 Mississauga Hospital

Measure	Utility Targeted	Description
OR scheduling optimization (existing controls)	Electricity, Natural Gas	Coordinate with OR scheduling to batch elective cases and extend unoccupied-room air-change setbacks within current BAS/clinical constraints.
Kitchen equipment power-down protocol	Electricity	Extend the 2019 kitchen lighting upgrade with a staff checklist to power down non-essential kitchen equipment during off-peak hours.
Manual AHU coil inspection & cleaning	Electricity, Natural Gas	In-house trades substitute for contracted AHU coil cleaning on accessible units during existing PM windows.

Table D. Mississauga Hospital conservation measures.

3.4 Queensway Health Centre

Measure	Utility Targeted	Description
Betty Wallace / atrium lighting schedule review	Electricity	Review and tighten existing atrium and Betty Wallace Centre lighting schedules; no hardware change from the 2021 atrium lighting project.
OR setback extension (8 ORs, existing BAS)	Electricity, Natural Gas	Apply unoccupied-hours setbacks to the operating rooms using current controls, mirroring the CVH/MH approach above.
Manual AHU coil inspection & cleaning	Electricity, Natural Gas	In-house trades perform manual coil cleaning on accessible AHUs in place of the contracted program.

Table E. Queensway Health Centre conservation measures.

4. Implementation Notes

- All measures above are designed for rapid, in-house delivery through existing Facilities Operations labour and BAS capability, so implementation can begin immediately.
- Measures that reduce inspection or cleaning frequency relative to a contracted program (e.g., AHU coil cleaning) should be monitored for performance drift; if in-house results fall short, they should be flagged as candidates for a future capital project.
- No-cost audits (Save on Energy, IESO) should be pursued opportunistically through the year to build a pipeline of well-scoped projects for future capital planning.
- Progress against the revised 1% electricity / 2% natural gas (vs. 2019) targets should be reviewed at the same cadence as the existing monthly utility bill tracking already in place.

5. Note on Water

Water is not covered by a formal ECDM reduction target in the 2024 plan or this addendum, it is tracked separately for cost and consumption monitoring, with the MRI make-up water conversion (2020) and site-wide irrigation repairs (2022) as the only conservation measures on record. No change to water tracking is proposed here; it can be folded into a future ECDM revision if a formal target is introduced.

6. Summary

This addendum replaces the 2029 targets in Section 2 of the 2024 ECDM Plan (~15% electricity, ~15% natural gas, ~19% carbon) with revised targets of **~1% electricity** reduction and **~2% natural gas** reduction from the 2019 baseline, and removes the formal carbon target, to reflect a realistic near-term trajectory the sites can achieve through operational measures alone.

Natural gas performance already exceeds the revised target; the proposed measures are therefore weighted toward electricity reduction, using existing BAS capability, in-house trades labour, and staff behaviour change that can be implemented immediately, ahead of any future capital-funded projects.