

Description

The Facility Operations Department, has been actively collaborating with CLEAResult's energy efficiency program across several DRNPHC townhouse sites, primarily heated by electric baseboard heaters. This partnership aims to drive impactful changes for both DRNPHC and its tenants by implementing advanced energy-saving solutions and upgrading appliances and home systems in multiple locations.

Actions Taken

- Installation of 234 brand new energy efficient refrigerators provided free of charge to tenants across ten DRNPHC locations.
- Upgraded insulation in 74 townhouse units.
- Replacement of electric baseboard heaters with 198 new heat pumps, introducing efficient heating and cooling for the first time.
- Modernisation of thermostats with technology that improves HVAC control and cost management.
- Ongoing inspections at additional townhouse sites, with at least two more sites scheduled to receive new heat pumps.

Outcomes, Benefits and Progress to Date

- Significant cost avoidance: over \$250,000 for refrigerators, around \$194,250 for insulation upgrades, and approximately \$1,061,100 for heat pump installations.
- Tenants are delighted with the new appliances and enhanced comfort, especially with the introduction of cooling and anticipated energy savings of up to 50% on annual heating bills.
- Replacement of portable window air conditioners with centralised heat pumps, reducing infrastructure damage, lowering energy bills, and improving safety.
- Improved ability for tenants to manage energy costs due to upgraded thermostats and HVAC systems.
- Continued progress with inspections and installations.

Long-term Vision and Sustainability Commitment

DRNPHC's long-term commitment to sustainability is rooted in its C.A.R.E. (Collaboration, Accountability, Respect, Excellence) values, emphasizing excellence and innovation across its entire building portfolio. DRNPHC has installed advanced HVAC systems, including VRF, HRV, and ERV technologies, to achieve energy savings of more than 20%, surpassing the 2017 OBC standard and qualifying for the Savings by Design Incentive.

The heat pumps are expected to provide tenants with up to 50% energy savings. Installations are ongoing, and follow-up assessments are planned to verify these projected savings.

Energy Efficiency Upgrade at an
Orchard Valley Townhouse Block



Before

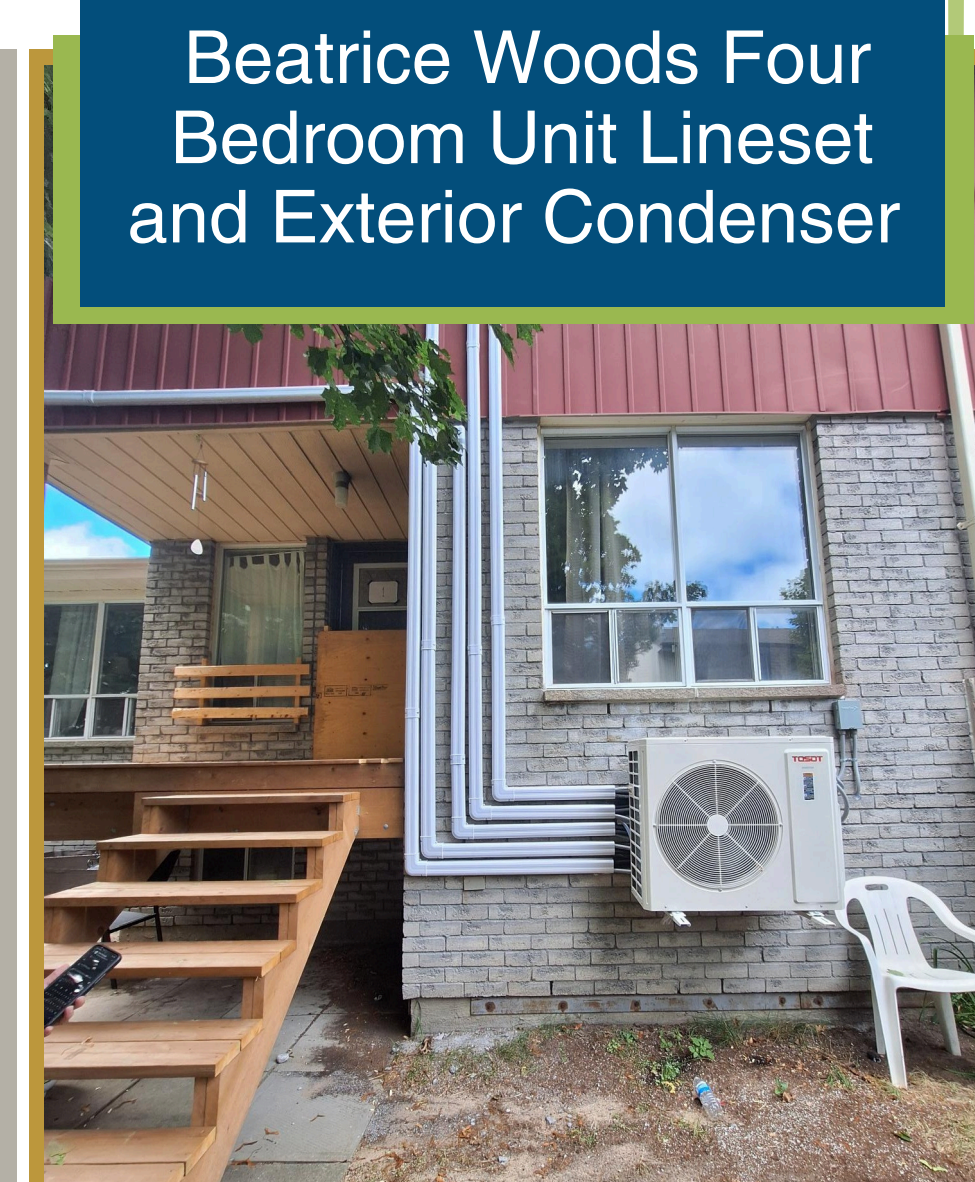


After

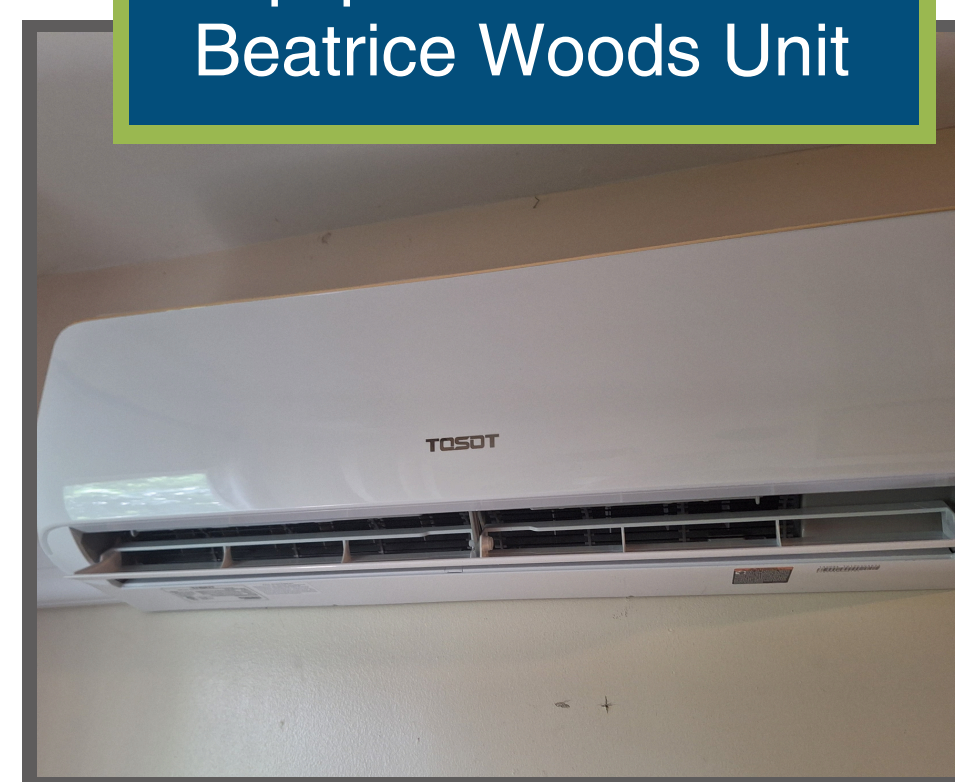
Beatrice Woods Two
Bedroom Unit Exterior
Condenser



Beatrice Woods Four
Bedroom Unit Lineset
and Exterior Condenser



Equipment Head in a
Beatrice Woods Unit



Equipment Head in
an Orchard Valley

