

INSTRUCTIONS AND BACKGROUND INFORMATION

1. The spreadsheet is made up of 7 tabs - 2 tabs for informational support; 5 tabs for boards to populate:

Instructions - Information for boards

UNIFORMAT Codes - Information for boards

App A - **Renewable Energy** - board to populate

App B - **Design, Construction, Retrofit** - board to populate

App C - **Operations & Maintenance** - board to populate

App D - **Occupant Behaviour** - board to populate

NOTE

App E - **Conservation Goals** - board must enter Total Floor Area & Energy Consumption from latest FY (top left corner); all other data fields are automatically populated based on the data entered into Appendices A, B, C & D

2. Users should calculate the total investment across the board's asset portfolio for each row, on each tab

NOTE

* VFA Board Expenditure Report is useful in calculating many of these values

3. The equation for calculating the estimated energy savings is shown in the Word template, page 19

4. the following fields have been pre-populated for the sector, but can be changed by the user:

* Quantity of Time the Measure will be in place (years)

* Energy Payback Period

* % related to electricity (automatically calculates % of natural gas)

* unit cost of electricity and natural gas

5. Unit Costs

* this template has been prepopulated with the **provincial weighted average** electricity and natural gas unit costs from the **FY2022- Sector Energy Cost Analysis Report**

* boards can use another value if they choose

Option # 1 - use your **board's** unit costs from the **FY2022 Sector Energy Cost Analysis Report** (found in the UCD at the **MEC_EDU level**, under the **Document** tab)

Option # 2 - use the **Utility Cost Analysis Report (EDU 09)** for FY2022 or FY2023 (Note: if using FY2023, you need to ensure all consumption data is updated in the UCD before generating or your values will be skewed) (found in the UCD, at your **board portfolio level**, under the **Export** tab) and manually enter the utility expenditures for each facility

UNIFORMAT NOTES

- some projects may be attributed to another UNIFORMAT code because of their main purpose

Examples

1. LED exterior signage upgrade project could be attributed to code G204005 - Site Development - Signage
 2. replacement of rooftop HVAC device may have more than one UNIFORMAT code due to multiple work areas
- D304007 - Distribution Systems - Exhaust Systems
 D304008 - Air Handling Units
 D306002 - Controls and Instrumentation - Electronic

List of UNIFORMAT codes and values used by Boards in expenditure reports in VFA

H.V.A.C.	
D30	HVAC
D3010	Energy Supply
D301001	Energy Supply System Oil
D301002	Energy Supply System Natural Gas
D301005	Energy Supply System Hot Water from Central Plant
D301006	Energy Supply System Solar
D301007	Energy Supply System Wind
D301010	Energy Supply System Propane
D3012	Gas Supply System
D3020	Heat Generating Systems
D302001	Heat Generating Steam Boilers
D302002	Heat Generating Hot Water Boilers
D302003	Heat Generating Furnaces
D302004	Heat Generating Fuel Fired Unit Heaters
D302006	Heat Generating Equipment Thermal Insulation
D302050	Auxiliary Equipment Chemical
D302051	Auxiliary Equipment Expansion Tanks
D302052	Auxiliary Equipment Heat Exchanger
D302053	Auxiliary Equipment Humidifiers
D302054	Auxiliary Equipment HVAC Pumps
D302055	Auxiliary Equipment Stacks & Breaching
D302056	Auxiliary Equipment Variable Frequency Drives (VFD)
D302057	Auxiliary Equipment Glycol
D302097	Heat Generating MakeUp AHU
D302098	Heat Generating Roof Top AHU Heat & Cool
D302099	Heat Generating Other
D3030	Cooling Generating Systems
D303011	Chilled Water Systems Chillers
D303012	Chilled Water Systems Cooling Towers
D303099	Cooling Generating Systems Other
D3040	Distribution Systems

D304001	Distribution Systems Air Distribution, Heating & Cooling
D304002	Distribution Systems Steam Distribution Systems
D304003	Distribution Systems Heated Water Distribution Systems
D304005	Distribution Systems Glycol Distribution Systems
D304006	Distribution Systems Chilled Water Distribution Systems
D304007	Distribution Systems Exhaust Systems
D304008	Air Handling Units
D304009	Distribution Systems Heat/Enthalpy Recovery Ventilation
D3050	Terminal and Package Units
D305001	Terminal and Package Units Unit Ventilators
D305002	Terminal and Package Units Unit Heaters
D305003	Terminal and Package Units Fan Coil Units
D305004	Terminal and Package Units Fin Tube Radiation
D305006	Terminal and Package Units Package Units
D305007	Terminal and Package Units Heat Pumps
D305099	Terminal and Package Units Other
D3060	Controls and Instrumentation
D306002	Controls and Instrumentation Electronic
D306003	Controls and Instrumentation Pneumatic
D306004	Building Automation System (F105002)
D3090	Other HVAC Systems and Equipment
D309002	Other HVAC Systems and Equipment Refrigeration Systems
D2020	Domestic Water Distribution
D202001	Domestic Water Distribution Pipes and Fittings
D202030	Domestic Water Distribution Natural Gas DWH
D202031	Domestic Water Distribution Electric DWH
D202032	Domestic Water Distribution Instantaneous Hot Water Heaters
D202033	Domestic Water Distribution Pumps
D202034	Domestic Water Distribution Water Storage Tanks
D202035	Domestic Water Distribution Water Treatment Systems
D202099	Domestic Water Distribution Other Supply
D2023	Domestic Water Supply Equipment
Controls	
D50	Electrical
D5010	Electrical Service and Distribution
D501001	Electrical Service and Distribution Main Transformer
D501002	Electrical Service and Distribution Secondary Transformer
D501003	Electrical Service and Distribution Main Switchboard
D501004	Electrical Service and Distribution Interior Distribution Transformer
D501005	Electrical Service and Distribution Panel
D501007	Electrical Service and Distribution Motor Control Centre
D501099	Electrical Service and Distribution Other
Lighting	
D5020	Lighting and Branch Wiring
D502001	Lighting and Branch Wiring Branch Wiring
D502003	Lighting and Branch Wiring Interior Lighting

D502004	Lighting and Branch Wiring Exterior Lighting
D502005	Lighting and Branch Wiring Exit Lighting and Signs
D502006	Lighting and Branch Wiring Stage Lighting
D502007	Lighting and Branch Wiring Emergency Lighting
D5021	Branch Wiring Devices
D5022	Lighting Equipment
Building Envelope	
B30	Roofing
B3010	Roof Coverings
B3020	Roof Openings
B302006	Roof Openings Skylight
B3021	Glazed Roof Openings
B3022	Roof Hatches
B2010	Exterior Walls
B2020	Exterior Windows

Calculating Energy Conservation Goals for FY 2024 to FY 2028

Press TAB to move to input area. Press UP or DOWN ARROW in column A to read through the document.

Renewable Energy		Estimated number of systems installed					Estimated total number of ekWh generated annually						Total Size (kW)	Actual or Estimated Total Generation (ekWh)	
Type of Renewable Energy	Define	Number of existing systems in asset portfolio (owned)	Fiscal Year 2023-2024	Fiscal Year 2024-2025	Fiscal Year 2025-2026	Fiscal Year 2026-2027	Fiscal Year 2027-2028	Fiscal Year 2023 - 2024	Fiscal Year 2024 - 2025	Fiscal Year 2025 - 2026	Fiscal Year 2026 - 2027	Fiscal Year 2027 - 2028			
Solar photovoltaic															0
Solar air															0
Solar water															0
Wind Turbine															0
Biomass															0
Other															0

End of worksheet.

Design, Construction and Retrofit Strategies

Lighting	Quantity of Time that Measure will be in place (years)	2023-2024		2024-2025		2025-2026		2026-27		2027-2028		2023/24-2027/28		Energy Payback Period	% related to Electricity	% related to Natural Gas
		Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Total Accumulated Energy Savings (eKWh)				
High Efficiency Lighting Systems (D3020, D302001, D302003, D302004)	30	\$ 215,518	196,479	\$ 215,518	196,479	\$ 226,294	206,303	\$ 226,294	206,303	\$ 226,294	206,303	3,096,128	7	100	0	
Outdoor Lighting (D502004)	30	\$ 5,000	4,666	\$ -	-	\$ -	-	\$ -	-	\$ -	-	22,792	7	100	0	
Occupancy Sensors (D5021, D5022)	10	\$ 53,879	68,768	\$ 53,879	68,768	\$ 72,206	56,573	\$ 72,206	56,573	\$ 72,206	56,573	1,052,145	5	100	0	
Other (Describe)		\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	0	0	100	0	

H.V.A.C.	Quantity of Time that Measure will be in place (years)	2023-2024		2024-2025		2025-2026		2026-27		2027-2028		2023/24-2027/28		Energy Payback Period	% related to Electricity	% related to Natural Gas
		Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Total Accumulated Energy Savings (eKWh)				
Efficient Boilers (near condensing) (D3020, D302001, D302002)	30	\$ 60,000	68,540	\$ 60,000	68,540	\$ 60,000	68,540	\$ 60,000	68,540	\$ 60,000	68,540	1,329,077	15	5	95	
High-efficiency Boilers (condensing) (D3020, D302001, D302002)	15	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	10	5	95	
High-efficiency Boiler Burners (D3020)	10	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	5	5	95	
Condensate (D302099)	25	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	35	100	0	
Heat Recovery/Enthalpy Wheels (D3090)	20	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	8	20	80	
Economizers (D306002)	15	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	7.5	90	50	
Energy Efficient HVAC systems (D3050, D3040)	35	\$ 20,531	2,793	\$ 20,531	2,793	\$ 2,793	2,793	\$ 2,793	2,793	\$ 2,793	2,793	41,898	75	50	50	
Energy Efficient Rooftop Units (D302098)	25	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	30	50	50	
High Efficiency Domestic Hot Water (D020)	10	\$ -	-	\$ -	-	\$ 10,893	19,139	\$ 10,893	19,139	\$ 10,893	19,139	114,831	10	15	85	
Efficient Chillers and Controls (D3030, D303011, D303012)	25	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	100	100	0	
High-efficiency Motors (D004007, D003011)	20	\$ 3,878	2,347	\$ 3,878	2,347	\$ 3,878	2,347	\$ 3,878	2,347	\$ 3,878	2,347	38,313	10	100	0	
VFD (D302056)	10	\$ 3,202	5,029	\$ 3,202	5,029	\$ 5,029	3,202	\$ 3,202	5,029	\$ 3,202	5,029	75,429	5	75	25	
Demand Ventilation (D3040)	15	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	5	50	50	
Entrance Heater Controls (D302099)	20	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	5	90	90	
Dehumidification Fans (D3030)	10	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	7	100	0	
Other (Describe)		\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	0	100	100	

Controls	Quantity of Time that Measure will be in place (years)	2023-2024		2024-2025		2025-2026		2026-27		2027-2028		2023/24-2027/28		Energy Payback Period	% related to Electricity	% related to Natural Gas
		Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Total Accumulated Energy Savings (eKWh)				
Building Automation Systems - New (D3060)	15	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	15	50	50	
Building Automation Systems - Upgrade (D3060)	15	\$ 14,388	9,767	\$ 14,388	9,767	\$ 14,388	9,767	\$ 14,388	9,767	\$ 14,388	9,767	146,810	15	50	50	
Real-time energy data for operators to identify and diagnose building issues	10	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	3	90	90	
Voltage Harmonizers (D501001)	15	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	7	100	0	
Other (Describe)		\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	0	100	100	

Building Envelope	Quantity of Time that Measure will be in place (years)	2023-2024		2024-2025		2025-2026		2026-27		2027-2028		2023/24-2027/28		Energy Payback Period	% related to Electricity	% related to Natural Gas
		Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Total Accumulated Energy Savings (eKWh)				
Glazing (B302006, B2020, B3021)	30	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	80	20	80	
Increased Wall Insulation (B2010)	60	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	40	20	80	
New Roof (B3070, B3020)	22	\$ 900,000	71,672	\$ 900,000	71,672	\$ 900,000	71,672	\$ 900,000	71,672	\$ 900,000	71,672	1,075,676	200	20	80	
New Windows (B2020)	32	\$ 100,000	4,977	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	80	20	80	
Treatments	10	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	10	20	80	
Shading Devices	30	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	20	100	0	
Other (Describe)		\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	0	100	100	

Design, Construction & Retrofit Strategies Total	Quantity of Time that Measure will be in place (years)	2023-2024		2024-2025		2025-2026		2026-27		2027-2028		2023/24-2027/28		Energy Payback Period	% related to Electricity	% related to Natural Gas
		Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (eKWh)	Estimated Total Accumulated Energy Savings (eKWh)				
Total		\$ 1,374,198	468,862	\$ 1,296,198	450,382	\$ 1,284,658	477,818	\$ 1,284,264	476,642	\$ 1,281,861	474,468	7,618,872				

Keys	
colour: yellow	= Default value
colour: blue	= Calculated Value
\$0.1507	= cost of 1 eKWh electricity
\$ 0.0303	= cost of 1 eKWh natural gas
\$ 0.0950	= \$11.50/kWh (as per NRCAN conversion table)
\$0.4116	= cost of 1 m ³ of natural gas

Calculating Energy Conservation Goals for FY 2024 to FY 2028

FILED: 2023-10-26 10:02:00 AM EDT. FILED IN: 2023-10-26 10:02:00 AM EDT. FILED THROUGH: 2023-10-26 10:02:00 AM EDT.

Operations and Maintenance Strategies

Policy and Planning	Quantity of Time that Measure will be in place (years)	2023-2024		2024-2025		2025-2026		2026-27		2027-2028		2023/24-2027/28			
		Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (e/kWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (e/kWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (e/kWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (e/kWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (e/kWh)	Estimated Total Accumulated Energy Savings (e/kWh)	Energy Payback Period	% related to Electricity	% related to Natural Gas
New School Design/Construction Guidelines and Specifications	5	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	5	50	50
Day and Night Temperature Guidelines for all Schools	10	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	5	20	80
Nighttime Blackout of Sites - Interior	10	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	7	100	-
Nighttime Blackout of Sites - Exterior	10	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	7	100	-
Procure Only Energy Star Certified Appliances	5	\$ 2,000	2,563	\$ 2,000	2,563	\$ 2,000	2,563	\$ 2,000	2,563	\$ 2,000	2,563	9,246	5	100	-
Demand Ventilation (servicing) (D3020, D3030, D3040)	3	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	5	50	50
PVAC Optimization (oil cleaning, re-calibration of equipment) (D3020)	3	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	2	50	50
Commissioning (redo and re)	10	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	10	50	50
Other (Describe)		\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	0		100

Energy Audits	Quantity of Time that Measure will be in place	2023-2024		2024-2025		2025-2026		2026-27		2027-2028		2023/24-2027/28			
		Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (e/kWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (e/kWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (e/kWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (e/kWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (e/kWh)	Estimated Total Accumulated Energy Savings (e/kWh)	Energy Payback Period	% related to Electricity	% related to Natural Gas
Walk Through Audit	5	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	1000	50	50
Commissioning Audit	5	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	0	100	50
Other (Describe)		\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	0		100

Operations and Maintenance Strategies Total	Quantity of Time that Measure will be in place	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (e/kWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (e/kWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (e/kWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (e/kWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (e/kWh)	Estimated Total Accumulated Energy Savings (e/kWh)				
Total		\$	e/kWh	\$	e/kWh	\$	e/kWh	\$	e/kWh	\$	e/kWh	\$	e/kWh			

Keys	
\$0.1627	= cost of 1 e/kWh electricity
\$0.0353	= cost of 1 e/kWh natural gas
0.0558	= 1 e/kWh
\$0.4116	= cost of 1 m ³ of natural gas

end of worksheet.

Calculating Energy Conservation Goals for FY 2024 to FY 2028

Press TAB to move to input area. Press UP or DOWN ARROW in column A to read through the document.

Occupant Behaviour Strategies

Training and Education	Quantity of Time that Measure will be in place (years)	2023-2024		2019-2020 2024-2025		2025-2026		2026-27		2027-2028		2023/24-2027/28		Energy Payback Period	% related to Electricity	% related to Natural Gas
		Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (ekWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (ekWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (ekWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (ekWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (ekWh)	Estimated Total Accumulated Energy Savings (ekWh)				
Building Operator Training	3	\$ 1,500	4,556	\$ 1,500	4,556	\$ 1,500	4,556	\$ 1,500	4,556	\$ 1,500	4,556	68,341	3	60	40	
Energy Benchmarking Program	5	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	1000	50	50	
Building Automation Training (site specific)	3	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	1	60	40	
Ongoing Training and Awareness Programs for Energy Conservation	5	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	10	90	10	
Detailed Information on Building Operational Costs	1	\$ 1,000	10	\$ 1,000	10	\$ 1,000	10	\$ 1,000	10	\$ -	-	143	1000	50	50	
Detailed Information on Energy Consumption (e.g. via the Utility Consumption Database or other database)	1	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	1000	50	50	
Participate in Environmental Programs, such as EcoSchools, Earthcare	1	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	5	90	10	
Other Tools (Define)		\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	-	0		100	
Occupant Behaviour Strategies Total		\$ 2,500	4,566	\$ 2,500	4,566	\$ 2,500	4,566	\$ 2,500	4,566	\$ 1,500	4,556	68,484				

Keys	
\$0.1567	= cost of 1 ekWh electricity
\$0.0393	= cost of 1 ekWh natural gas
0.0955	m ³ = 1 ekWh
\$0.4116	= cost of 1 m ³ of natural gas

End of worksheet.

Calculating Energy Conservation Goals for FY 2024 to FY 2028

Press TAB to move to input area. Press UP or DOWN ARROW in column A to read through the document.

Conservation Goal

	FY 2018	
Total Building Area (includes portables) (m²)	441,187	Enter from UCD. - use square meters
Total Building Area (includes portables) (ft²)	4,748,897	Enter from UCD - use square feet
Energy Consumption for the board (ekWh)	67,884,761	Enter from UCD

1 ft² = 0.0929 m²

	2023-2024		2024-2025		2025-2026		2026-27		2027-2028		2023/24-2027/28
	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (ekWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (ekWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (ekWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (ekWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (ekWh)	Estimated Total Accumulated Energy Savings (ekWh)
Appendix B: Design, Construction and Retrofit Strategies Total	\$ 1,376,196	469,882	\$ 1,296,196	450,392	\$ 1,295,559	477,815	\$ 1,298,264	479,542	\$ 1,291,881	475,468	7,018,972
Appendix C: Operations and Maintenance Strategies Total	\$ 2,000	2,553	\$ 2,000	2,553	\$ 2,000	2,553	\$ 2,000	2,553	\$ 2,000	2,553	38,290
Appendix D: Occupant Behaviour Strategies Total	\$ 2,500	4,566	\$ 2,500	4,566	\$ 2,500	4,566	\$ 2,500	4,566	\$ 1,500	4,556	68,484
TOTAL	\$ 1,380,696	477,001	\$ 1,300,696	457,511	\$ 1,300,059	484,934	\$ 1,302,764	486,661	\$ 1,295,381	482,577	7,125,746
Percentage reduction		0.70		0.67		0.71		0.72		0.71	3.52
Conservation Goal (ekWh/m²)		1.08		1.04		1.10		1.10		1.09	5.41
Conservation Goal (ekWh/ft²)		0.10		0.10		0.10		0.10		0.10	0.50

Note
Check the total in cell B15 to confirm validity of estimated amount to be spent during that year

Note
Check the total in cell D15 to confirm validity of estimated amount to be spent during that year

Note
Check the total in cell F15 to confirm validity of estimated amount to be spent during that year

Note
Check the total in cell H15 to confirm validity of estimated amount to be spent during that year

Note
Check the total in cell J15 to confirm validity of estimated amount to be spent during that year

End of worksheet.

Please note:

- some projects could be attributed to another UNIFORMAT code because of their main purpose

(LED exterior signage upgrade project could be attributed to code G204005 - Site Development - Signage)

- some projects like replacing rooftop HVAC device related to more than one UNIFORMAT code due to multiple work areas

(D304007 - Distribution Systems - Exhaust Systems, D304008 - Air Handling Units, D306002 - Controls and Instrumentation - Electronic .etc..)