WINNIPEG'S CLIMATE ACTION PLAN: SHORT TERM ACTIONS 2020 UPDATE

Primary Responsibility	Funding Status

Funding Status
Fully funded or existing budget
Partially funded
Requires new funds
Unclear or incomplete

Action	2020 Status	Previous year reporting
Strategic Opportunity #1: Corporate Leadership		
1.1 Cultivate a Corporate Culture that Values Climate Action		
Celebrate staff taking initiative in corporate and community climate action.	Ongoing Office of Sustainability	Initiatives include: City Hall 'Waste Warriors' and office composting programs, commuter challenge events, GoManitoba Sign up Competition, employee sustainable commuter survey, Race to Reduce Lobby Events, Employee News circulations, videos and Winnipeg Climate Action Plan Summary. Office of Sustainability
Incorporate a Climate Action Plan alignment section into all Council reports.	Complete Office of Sustainability	On September 10, 2019, EPC concurred in the motion from Riel Community Committee which directed the CAO to: "refer to the City of *Winnipeg Climate Action Plan*, and consider and advise as a part of every report, whether the recommendation is consistent with the City of Winnipeg's objectives and targets with respect to reducing greenhouse gas emissions and adapting to the harmful impacts of climate change." Office of Sustainability

Action	2020 Status	Previous year reporting
Integrate sustainability and climate action into procurement standards which can demonstrate increasing impact from year to year.	Council direction from 2020 will see the Administrative Standard of the Materials Management Policy updated in 2021 to improve sustainable procurement. Office of Sustainability	In 2018, the City of Winnipeg's *Materials Management Policy* was updated to direct the procurement of sustainable goods and services as a key guiding principle. This is defined as "environmentally, socially and economically preferable goods that have a more beneficial or less adverse impact on the economy, environment, health and social well-being when compared with competing goods." In 2019 new reporting requirements were introduced related to fuel type and usage by third-party contractors to assist with calculating GHG emissions and the City's corporate carbon footprint associated with procurement. Office of Sustainability
Encourage department ownership of climate mitigation measurement, ongoing reporting and implementation through a cross-departmental working group on Climate Change.	Ongoing through meetings of the Climate Change Working Group. In 2020, Winnipeg's Fleet Management Agency incorporated GHG calculations into their regular department/client reporting stream. Office of Sustainability	The Climate Change Working Group meets regularly to collaborate on actions and enhance communication between departments. The Public Service has been provided GHG worksheets to support departments with emission calculations. This is one way to support business cases for projects with measurable environmental benefits. Office of Sustainability
1.2 Understand and Integrate Business and Economic Implications of Climate Action into Decision Making Processes		
Undertake detailed greenhouse gas and economic modeling of the Climate Action Plan to understand the estimated costs and benefits to the City of implementing the Plan.	A Community Energy Investment Roadmap modeling and analysis project was established in 2020 and is ongoing. It is anticipated to come forward in 2021. This project will update the City's GHG emissions inventory, and model community energy use and emissions to 2050, as well as provide a financial analysis.	An application is under review by the Innovation Department. Several departments are interested in collaborating on this modelling to assist with alignment between strategic plans.

Action	2020 Status	Previous year reporting
	Office of Sustainability	Office of Sustainability
Establish a dedicated Climate Action Reserve Fund (CARF) to support implementation of this Action Plan.	Not yet established Office of Sustainability	The request for a CARF was not supported in the 2019 or 2020 Budget. The 2019 WCAP Update report recommended: That, as per Direction 1.2 of *Winnipeg's Climate Action Plan*, the establishment of a Climate Action Reserve Fund be referred to the 2020 Budget process with consideration for a minimum allocation of $500,000. Office of Sustainability
Create an annual capital program for departmental sustainability and climate initiatives. Applications should be accepted by all departments.	Not yet established Office of Sustainability	Action is contingent on the establishment of a CARF (see above). Office of Sustainability
Incorporate climate action priorities into the annual budget process to ensure the City has resources to implement priority projects.	The Asset Management Prioritization Tool now provides more quantitative data for assessing the environmental impacts of proposed capital investments. Office of Sustainability	Public Service has been directed to identify budget risks for project implementation of the short, medium, and long-term actions as part of the yearly budget processes. Departments are developing business cases, and submitting through the annual budget process. The Asset Management prioritization tool (and associated benefits evaluation criteria) was updated to give greater weight and provide clearer guidance and support related to the environmental benefits of capital investments. Office of Sustainability
1.3 Implement Low Carbon and Energy Efficient City Facilities and Buildings		

Action	2020 Status	Previous year reporting
Implement energy benchmarking for all City owned Buildings (using Portfolio Manager) to identify opportunities for improved energy performance.	Ongoing PP&D	The Office of Sustainability has inputted over 500 of the City's buildings into ENERGYSTAR Portfolio Manager for benchmarking and monitoring purposes. Municipal Accommodations is in the process of hiring an Energy Analyst who will work to integrate benchmarking into an ongoing program related to the utility performance of facilities. Funding for such initiatives has yet to be secured. PP&D
Conduct an energy audit of all City facilities to seek opportunities to implement equipment and programs that will maximize energy performance.	This action was initiated in preliminary stages, with audits for some facilities completed. PP&D	Municipal Accommodations is in the process of hiring an Energy Analyst whose duties will include initiating energy audits to improve the utility performance of facilities. Funding for such initiatives has yet to be secured. PP&D
1.4 Encourage Sustainable Transportation Options		
Ongoing implementation of the Green Fleet Plan (2010) to reduce vehicle emissions.	Data collection on corporate commuter needs was completed to assist with transportation demand management objectives. Efforts to meet the goals of the Green Fleet Plan are ongoing, including maintaining the right size of fleet, purchasing fuel efficient vehicles, and implementing an anti-idling policy. WFMA	In 2019, the Office of Sustainability will be conducting an employee commuting survey to assist with transportation demand management objectives. WFMA
Conduct a comprehensive business case evaluation of the City electric vehicle pilot project and look to accelerate the electrification of the City's fleet.	The electric vehicle pilot project continues into 2021. WFMA	Pilot project underway with deployment of two electric vehicles. WFMA
1.5 Reduce Employee Vehicle Kilometers Travelled (VKT) and associated GHGs		

Action	2020 Status	Previous year reporting
Implement the 'Intuitive Routing System' program, which provides information to service providers conducting work on behalf of the City on the most optimal route for completing their required visits each day while ensuring minimal vehicle kilometers travelled. Benefits from a climate change mitigation lens include, but are not limited to: reduced fuel, reduced paper and minimized distance travelled for unscheduled enforcement requests.	Complete WPA	This project has been implemented in the WPA's operations. WPA
1.6 Reduce Consumption and Increase Waste Diversion		

Action	2020 Status	Previous year reporting
Building on direction from the Corporate Waste Strategy (2015), examine procurement policies to look for opportunities to reduce consumption.	A report was initiated in 2020 and came forward in March 2021 which directs the public service to establish a stakeholder working group to advise the City on how to better incorporate sustainable and social procurement into purchases. Office of Sustainability	The Sustainable Procurement Working Group supports the waste reduction activities and recycling is embedded in existing contracts and bid specifications. Examples of materials that are currently sent for proper end of life management and recycling include: shredded paper and record destruction services, lamps and ballasts, scrap metal, oils, lubricants, solvents and related materials, blue box materials (bottles, cardboard, cans, plastic containers, paper, etc.), batteries, E-waste, toners, organic materials and pens and writing instruments (in select locations). In 2018, Materials Management included 100% recycled post-consumer waste paper into the City's paper contract. In 2018, the Water and Waste Department awarded a contract to Mother Earth Recycling for a pilot project to recycle mattresses and box springs collected at Brady Road Resource Management Facility. In 2019, Corporate Finance implemented a new process for introducing Paperless Invoicing. This was supported by Innovation Fund. In 2019, the Office of Sustainability collaborated with Golf Services to support electrification of golf carts at two City-owned golf courses. Office of Sustainability

Action	2020 Status	Previous year reporting
1.7 Increase Opportunities to Respond to Food Needs Throughout Winnipeg and Increase Access to Local and Sustainable Food		
Support local food procurement at City of Winnipeg facilities.	Ongoing review of opportunity through the internal Sustainable Procurement Working Group. Some Request for Proposals for food services at City facilities in 2020 have included considerations for local food procurement. Office of Sustainability	Ongoing review of opportunity through Sustainable Procurement Working Group. Office of Sustainability
Work with Winnipeg Food Council to advise on opportunities for greenhouse gas mitigation, including local food procurement, support for urban agriculture, and promoting plant-based diets.	Working with the Winnipeg Food Council, the City increased support for urban food production through zoning by law changes for urban agriculture. The Office of Sustainability worked with the Winnipeg Food Council Coordinator to convene an interdepartmental COVID-19 Food Security Working Group to explore ways to respond to Winnipeg food needs. Office of Sustainability	In 2018, Office of Sustainability made a presentation to the Winnipeg Food Council. Office of Sustainability
Supported by the Winnipeg Food Council, create the Winnipeg Agricultural and Food Strategy to improve food security and address food system issues with respect to climate mitigation and resiliency.	The City supported ongoing Winnipeg Food Council operations through the 2020 multi-year budget process. Office of Sustainability	In 2018, the Food Council secured a $7,500 grant from Innoweave (McConnell Foundation). The resulting deliverable (the Food Council work plan) lays out what is needed to begin the Agricultural and Food Strategy. In July 2019 Council approved a grant of $25,000.00 in the form of a single source contract with Food Matters Manitoba for a Winnipeg Food Council Coordinator, who will move this forward, provided funding for this position is included in the City's multi-year budget. Office of Sustainability

Action	2020 Status	Previous year reporting
1.8 Ensure that City Land Use, Transportation and Built Environment Policy, Bylaw, and Regulation Recognize the Council-Approved Climate Protection and Mitigation Priorities		
Incorporate climate risks and mitigation targets and opportunities related to land use, transportation and development into *OurWinnipeg* review that is currently underway. This will necessitate a review of all four Direction Strategies (*Sustainable Winnipeg*, *Sustainable Water and Waste*, *Sustainable Transportation* and *Complete Communities*).	OurWinnipeg 2045 received first reading in January 2021, and considers Environmental Resilience as a key objective to transition to a resilient, low-carbon future through organizational and community leadership and collaboration. The Winnipeg Climate Action Plan's GHG target is reinforced in OurWinnipeg policy in order to elevate its importance and other policy has been aligned with the Plan. The Complete Communities 2.0 draft coming forward in 2021 aligns development targets with the Land Use performance indicator from the Winnipeg Climate Action Plan for 50% of all new residential construction to take place in strategic infill locations. Office of Sustainability	The Office of Sustainability has been engaged in the OurWinnipeg review process, providing feedback that reflects climate risks, mitigation and opportunities described in the Climate Action Plan where possible. Environmental Resilience is prioritized as one of six localized United Nations Sustainable Development Goals. The Climate Action Plan's greenhouse gas target is reinforced in OurWinnipeg policy in order to elevate its importance and other policy has been aligned with the Climate Action Plan. The proposed OurWinnipeg Strategic Priorities Action Plan intends to further elaborate on the policy and evidence-informed targets. The new Complete Communities Direction Strategy is planned to be designed to meet the 2030 Land Use performance indicator. This indicator states that 50% of all new residential construction will take place in strategic infill locations. Office of Sustainability

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Action	2020 Status	Previous year reporting
Incorporate climate risks and mitigation targets and opportunities that relate to parks and recreation development as part of the Recreation and Parks Strategies and Urban Forestry Strategic Plan.	The latest draft of the Recreation Strategy incorporates targets for facilities to be energy efficient, and supportive of climate adaptation by 2045. The draft Parks Strategy includes actions to reach greenhouse gas emissions reduction targets for overall parks system and operations, and develop a methodology to quantify the value of ecological goods and services and natural assets. Public engagement on these strategies is ongoing into 2021. Public engagement on the Urban Forestry Strategic Plan identifies climate risks and opportunities to the urban canopy. Public engagement on this strategy is ongoing into 2021. Office of Sustainability	The Recreation & Parks Strategies project is ongoing and will be complete in 2020. Current efforts and future opportunities to mitigate and adapt to climate risks over the next 25 years will be included. In 2019, the Climate Change Working Group reviewed climate mitigation priorities and staff participated in a workshop on climate adaptation and climate risks. Office of Sustainability
Incorporate climate risks and mitigation targets and opportunities into the anticipated Transportation Master Plan update and the Winnipeg Transit Master Plan.	The Winnipeg Transit Master Plan came forward in 2021 and incorporates climate risks and mitigation targets and opportunities. The Transportation Master Plan is being developed in line with Winnipeg Climate Action Plan goals. Office of Sustainability	In 2019, the Climate Change Working Group reviewed climate mitigation priorities and staff participated in a workshop on climate adaptation and climate risks. Office of Sustainability
Incorporate climate risks and mitigation targets and opportunities into the Comprehensive Integrated Waste Management Strategy (CIWMS).	Completed Office of Sustainability	The CIWMS 5-Year Review was presented to Council in June, 2019. The Review took into consideration the strategic directions and targets identified in the Climate Action Plan. In 2019, the Climate Change Working Group reviewed climate mitigation priorities and staff participated in a workshop on climate adaptation and climate risks. Office of Sustainability

Action	2020 Status	Previous year reporting
1.9 Work with Indigenous Communities, the Province, and Federal Government to Advance Climate Action		
Collaborate with senior levels of government for increasing investment in programs supporting climate action.	The Province of Manitoba participated on the advisory committee of the building energy labelling and disclosure program launched in 2020. As part of the Local Energy Access Program initiative the City engaged Efficiency Manitoba and Manitoba Hydro, among others, to guide process and recommend solutions. Office of Sustainability	In 2019, the Office of Sustainability in collaboration with the Water and Waste Department secured funding from the federal government's Low Carbon Economy Fund to expand the landfill gas capture system at the Brady Road Resource Management Facility. In 2019, Office of Sustainability secured funding from Natural Resources Canada to develop a building energy labelling and disclosure program. FCM funding was received through Winnipeg's participation in Canadian Urban Sustainability Practitioners (CUSP) to support Local Energy Access Program (LEAP) and community coalition on energy poverty. The Office of Sustainability has submitted an application to Natural Resources Canada under the Zero Emissions Vehicle Infrastructure Program to install 12 (Level 2) electric vehicle charging stations at four City facilities. The Office of Sustainability has also supported several applications for federal funding to advance climate resiliency actions. Office of Sustainability

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Leverage funding from the province and federal governments to advance climate action.	The City received funding from Natural Resources Canada for the Building Energy Disclosure Program. The City received over $6 million in funding from the Provincial Disaster Prevention and Climate Resilience Projects for two projects: Canora Storm Water Relief Gate Chamber Upgrade and Lyndale Drive Riverbank Stabilization. The City of Winnipeg was successful in obtaining funds from Manitoba Conservation and Climate to enhance the Residential Food Waste Collection Pilot Project including developing a business case for an organics processing facility, development and distribution of a food waste reduction campaign, and assessment of organics processing methodology at Brady Road Resource Management Facility. Office of Sustainability	See notes above. Office of Sustainability
Engage Winnipeg's Indigenous population on issues around climate change.	The next phase of climate engagement will take place upon completion of the Community Energy Investment Roadmap project. Project timelines were disrupted in 2020 due to COVID-19, and the project continues into 2021. Office of Sustainability	In 2019, two indigenous-owned businesses received funding to receive training and certification as Climate Smart Businesses. This pilot project was funded by the SPC on Innovation. A Winnipeg Climate Action Plan presentation was made to the Mayor's Indigenous Advisory Circle. Office of Sustainability

Action	2020 Status	Previous year reporting
Strategic Opportunity #2: Empower Community Leaders and Collaborate with Stakeholders		
2.1 Engage Community Leadership and Associations on an Ongoing Basis to Help Shape Implementation of the Climate Action Plan		
Establish a Community Advisory Committee representative of the local population and a series of Community Action Teams to provide strategic advice and guidance during the implementation of the Plan. The Action Teams will support collaboration amongst the City and community in advancing action. Establish clear roles and responsibilities, terms of references, and transparency in roles, participation, and outcomes.	An action team to address energy poverty was initiated under the Local Energy Access Program. Further consultation with the Community Advisory Committee and Working Group under this program continues toward a pilot project. Office of Sustainability	In 2019, the Office of Sustainability is establishing a community action team/coalition related to energy poverty and the Local Energy Access Project (LEAP) funded by FCM. Other community action teams will be established as resources become available and clear roles and outcomes are defined by the City and / or community. Office of Sustainability
Engage with the Mayor's Indigenous Advisory Circle twice a year to solicit feedback on actions, priorities, and opportunities for engaging Winnipeg's Indigenous community.	Engagement schedule was disrupted due to COVID-19. Office of Sustainability	In 2019, the Mayor's Indigenous Advisory Circle met and discussed the Winnipeg Climate Action Plan. Office of Sustainability
2.2 Develop Public Education and Awareness Campaigns related to Sustainable Transportation		
With every new transit, cycling or pedestrian infrastructure investment, launch an education and awareness campaign targeting City residents who live and work in the areas served by the infrastructure to gain the most from the City's investments in infrastructure (including GHG emissions reductions).	Ongoing promotion of new projects and initiatives through internal mechanisms, such as press releases and social media opportunities, with limited resources. Public Works	Some newly constructed cycling infrastructure is presented to the public with a marketing/education campaign. Public Works

Action	2020 Status	Previous year reporting
2.2 Create Conditions to Enable Community Climate Action		
Develop and implement a strategy to empower and celebrate community-led climate action successes by advising on funding opportunities, technical expertise, and facilitating organization/industry/ government linkages.	The Winnipeg Public Library has several Info Guides available to support community-led climate action. Office of Sustainability	In 2019, the Winnipeg Public Library initiated a "Green it. Mean it!" workshop series with a focus on people who are actively living a sustainable lifestyle. Examples of topics explored to date include: electric vehicles, low waste living, solar energy, how to use less water, and urban beekeeping. Office of Sustainability
Strategic Opportunity #3: Advancing Sustainable Transportation		
3.1 Increase Use and Efficiency of Public Transit Systems		
Integrate and align transportation master planning with land use planning by conducting a comprehensive review of transportation and development bylaw, policy and regulation for alignment with *OurWinnipeg.*	Completed as part of the Winnipeg Transit Master Plan, brought forward in April 2021. Transit	Unsure of funding status as elements of this process need to be part of the Winnipeg Transit Master Plan, the Transportation Master Plan and *OurWinnipeg* review. Transit
Deliver continuous improvement in transit service with a focus on customer service, reliability, and route connectivity, and public education.	Ongoing and integrated as part of the Winnipeg Transit Master Plan, brought forward in April 2021. Transit	This planning is part of the Winnipeg Transit Master Plan. Implementation will require additional operating and capital funds. Transit

Action	2020 Status	Previous year reporting
Improve existing park and ride services, and increase the total number throughout the City. Explore partnerships to increase convenient park and ride services. Work with retailers with large surplus parking close to transit services and with the Winnipeg Metro Region to increase availability of park and rides near the City boundary, to facilitate ridesharing across the region.	Incorporated at a high level as part of the Winnipeg Transit Master Plan. Transit	Identifying park and ride locations and developing a strategy around them is part of the Winnipeg Transit Master Plan, which is fully funded. Construction of lots (or modification to existing lots that will be used) as well as marketing and communications are not currently funded. Transit
Improve active transportation connectivity to transit services by installing sidewalks and cycling routes to link stops with the surrounding community, and provide bike racks at stops and on buses.	Ongoing as part of Winnipeg Transit's Bus Stop Accessibility Program. Incorporated at a high level as part of the Winnipeg Transit Master Plan. Transit	This planning is part of the Winnipeg Transit Master Plan. Implementation will require additional operating and capital funds. Transit
3.2 Increase the Density of Urban Development Along Key Transit Corridors		
Implement the policies included in the Transit Oriented Development Handbook, which guides and facilitates mixed-use, pedestrian-oriented infill development along high frequency transit corridors.	Complete Communities 2.0 had its first reading in January 2021 and identifies priority transit stations along the Primary Transit Network for station area planning activity. PP&D	General implementation requires no additional budget (staff time only). Station area planning and other potential tools may require budget. PP&D

Action	2020 Status	Previous year reporting
Align transit route planning with growth and development trends to ensure neighbourhoods undergoing transition have convenient and frequent transit services.	Complete through Winnipeg Transit Master Plan and Complete Communities 2.0. PP&D	This work is underway through development of the *Winnipeg Transit Master Plan* and *Complete Communities Direction Strategy.* PP&D
3.3 Design New Suburban Communities to Enable Enhanced Transit Services and Access to Transit Corridors		
Require sidewalks in new residential developments to ensure safe walking routes to transit stops.	Complete through the Winnipeg Transit Master Plan, which came forward in April 2021, and the Transportation Master Plan, which is currently under development and will come forward in 2022. Transit	Ongoing discussion on how to plan for sidewalks continues between Transit/PP&D/Public Works. This will be considered in the *Winnipeg Transit Master Plan, Complete Communities Direction Strategy* and the *Transportation Master Plan*. Transit
Ensure street network layout in new communities forms an overarching grid pattern with direct connections to adjacent neighbourhoods to allow for convenient and efficient transit routes.	OurWinnipeg 2045 and Complete Communities 2.0 were under development in 2020, and came forward in early 2021. They propose principles of connectivity, complete streets and transit-oriented development. Transit	Ongoing discussion on how to plan for the creation of an overarching grid continues between Transit/PP&D/Public Works. This will be considered in the *Winnipeg Transit Master Plan*, *Complete Communities Direction Strategy* and the *Transportation Master Plan*. Transit
3.4 Increase Active Transportation Rates		
Accelerate the implementation of the Pedestrian and Cycling Strategies (i.e., through increased funding, staffing levels).	Implementation of the Pedestrian and Cycling Strategies is ongoing. Public Works	Not meeting *Pedestrian and Cycling Strategies* proposed goals for funding or staff levels. The Innovation Program has approved a submission for BikeShare and is currently working with the PWD on pre-requisite by-law information. Public Works
Continue to fund the Bike Education and Skills Training Program currently run by the Green Action Centre in partnership with Seven Oaks School Division and MPI. Work with partners to pilot, improve, and expand the program to other school divisions.	Ongoing Public Works	Initiative ongoing. Public Works

Action	2020 Status	Previous year reporting
Continue to fund and develop W.R.E.N.C.H, an organization focusing on core area education and outreach on bike repair.	Ongoing Public Works	Initiative ongoing. Public Works
Continue to partner and promote initiatives that encourage active transportation (e.g., Bike to School Month and Commuter Challenge).	Ongoing Public Works	Initiative ongoing. Public Works
Enhance operation and maintenance of pedestrian and cycling facilities during winter months through re-prioritization of snow-clearing activities, assessing equipment needs, and engaging the active transportation community.	Ongoing Public Works	2019/2020 winter season will be first year of implementation of enhanced snow clearing for AT facilities program. Public Works
Update the City's Snow Clearing Priorities to align with sustainable transportation modal shift goals. Adopt Priority 1 Pedestrian and Cycling snow clearing network Policy and associated budget that is separate and distinct from road priority snow clearing routes.	Ongoing Public Works	2019/2020 winter season will be first year of implementation of enhanced snow clearing for AT facilities program. Public Works
3.5 Reduce Traffic Congestion		
Adopt intelligent railway crossing measurement and compensation mechanisms that reduce congestion due to railway crossings.	Not yet initiated Public Works	The Transportation Division (Signals Branch) and the Smart Cities Program are working on pilot projects with Trainfo, a firm that collects data regarding the detection of trains for road network users such as motorists, first responders, etc. Public Works
Adopt intelligent and automated signal timing systems that adapt signal timings to weather and traffic conditions, alleviating congestion and reducing transit times.	Not yet initiated Public Works	For future consideration by Transportation Division (Signals Branch) and the Smart Cities Program as part of the Traffic Management Centre (TMC). The TMC is a facility that monitors traffic on the roads using a system of cameras. Public Works

Action	2020 Status	Previous year reporting
Improve clarity and precision of Transit services through enhanced data analytics and insights into Transit service consumption and delivery.	Transit adopted the use of Qlik for data analytics, which has allowed for a substantial improvement in how transit data is used. Public Works	Work being done in the Open Data Portal will facilitate future improved clarity and precision of data. Winnipeg Transit is in the process of developing analytics using a business analytics platform to develop a suite of KPI tools and dashboards which allows for assessment of the performance of the transit system. Public Works
3.6 Increase the Use of Electric Vehicles		
Develop an Electric Vehicle Strategy for Winnipeg.	A recommendation to develop a city-wide Electric Vehicle Strategy will be considered after the completion of the Transportation Master Plan. Public Works	Not yet initiated. The Office of Sustainability applied for federal funding in September 2019 to support electric vehicle charging infrastructure in four public locations. Public Works
Partner with Red River College's Electric Vehicle Technology and Education Centre (EVTEC) to develop an education and information program to inform citizens about the latest developments and opportunities related to electric vehicles, charging infrastructure and policies.	Not yet initiated Public Works	Not yet initiated. Public Works
3.7 Utilize Zero Emission Buses		
Building on the momentum of the Electric Bus Pilot Project, plan for and initiate the deployment of electric buses at a larger scale.	Transit's internal work on the 12-20 bus pilot and a larger electric bus deployment strategy is complete and came forward in February 2021. Transit	Funding in place to create an electrification plan that includes 12-20 electric buses. Transit

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Action	2020 Status	Previous year reporting
Prepare a transition plan outlining approaches to network integration, facility needs (charging facilities and storage), and maintenance requirements and expected training considerations.	Transit's work on the 12-20 bus pilot and a larger electric bus deployment strategy is complete and came forward in February 2021. Transit	Plan and costing will be determined for an initial set of 12-20 electric buses. Costs for further electrification will need to be based on the outcomes of operating these buses for a period of years. Transit
Leverage funds from the Government of Manitoba or federal government to support the planning, capital investment, and operating costs associated with the shift.	As a result of Transit's work on the electric bus deployment strategy in 2020, the public service included a request for funds for a Transition to Zero Emissions Buses project in Transit's proposed Investing in Canada's Infrastructure Program (ICIP) application. This came forward in April 2021. Transit	The Electric Bus Pilot Project is planned for submission under the Investing in Canada Infrastructure Program with consideration under the Public Transit Infrastructure Stream. Transit

Action	2020 Status	Previous year reporting
Strategic Opportunity #4: Facilitate Compact, Complete Development and Increase Density		
4.1 Increase Strategic Infill Development that Provides Access to and Capitalizes on Existing and Planned Corridors with Frequent Transit Service		
Complete the Residential Infill Strategy which will provide direction for infill development that supports complete communities and increased mobility options. Implementation tools that should be considered include innovative financial incentives (e.g. taxation, permits), nonfinancial incentives (e.g. streamlining permit process) and opportunities to enhance customer service by establishing clearer systems and simpler permitting pathways to help reduce processing times.	The Residential Infill Strategy will come forward in 2021. PP&D	In 2019, PP&D advanced the Residential Infill Strategy Implementation Action Plan which will provide direction for infill development that supports complete communities and increased mobility options. Deliverables include a Housing Needs Assessment, zoning by-law improvements, parking and transportation strategies. Community consultations are currently underway on the infill design guidelines and intensification criteria. PP&D
Complete the *OurWinnipeg* Residential Growth Study which will identify priority areas for residential growth within Winnipeg.	Complete. The two main products of the Residential Growth Study, the growth scenarios and the site assessments, were used to inform the proposed update of the Complete Communities 2.0, including informing the proposed intensification target and greenfield phasing plan. PP&D	Ongoing. Results of the Growth Study will be embedded into the new Complete Communities Direction Strategy. Planning to consult on various growth scenarios in November 2019. PP&D

Action	2020 Status	Previous year reporting
4.2 Ensure New Areas of Growth are Designed According to the Principles of Complete Communities		
Develop neighbourhood design guidelines and other tools that incorporate design elements essential to support a shift to sustainable modes of travel and which capitalize on opportunities to use passive renewable energy (e.g. street and lot orientation to capture passive solar energy).	Complete Communities 2.0 came forward in early 2021. PP&D	High-level design guidance, including some focusing on facilitating sustainable modes of transportation, will be provided in various sections of the new Complete Communities Direction Strategy, where appropriate. Stand-alone guidelines would be developed following adoption of the new Complete Communities Direction Strategy and will be prioritized in relation to other competing priorities. PP&D
4.3 Pursue Transit Oriented Development		
In new transit-oriented development, ensure there are active transportation linkages and connections to facilitate a connected, diverse and sustainable transportation network.	Development applications are reviewed on a case by case basis for active transportation connections using the Transit Oriented Development Handbook. PP&D	The existing Transit-Oriented Development Handbook provides design guidelines. High-level design guidance enabling sustainable modes of transportation will be included in various sections of the new Complete Communities Direction Strategy, where appropriate. PP&D
Gain further insight into the opportunities and constraints to transit-oriented development through the current Eastern Corridor Study.	The Eastern Corridor Study is continuing into 2021 and is informed by the updated Winnipeg Transit Master Plan. PP&D	Included for consideration as part of the Eastern Corridor Study. This is currently on hold until completion of *Winnipeg Transit Master Plan*. PP&D

Action	2020 Status	Previous year reporting
4.4 Support Redevelopment of Former Commercial and Industrial Lands into Active Use		
Develop a Brownfield Redevelopment Strategy for public and private lands. Implementation tools that should be considered include financial incentives to encourage redevelopment of key sites, development approval process incentives that encourage private sector investment into redevelopment activities, and streamlined processes.	Not yet initiated. The proposal for a Brownfield Strategy has been incorporated in the OurWinnipeg 2045 and Complete Communities 2.0 review process, which came forward in early 2021. PP&D	Direction on brownfield redevelopment is being sought through the *Our Winnipeg* and *Complete Communities Direction Strategy* review process. PP&D
Strategic Opportunity #5: Low Carbon and Energy Efficient Buildings		
5.1 Increase Energy Performance of Existing Buildings		
Advance a business case analysis to support the design and development of a residential and commercial energy performance program that includes both financial and non-financial incentives.	Not yet initiated PP&D	Not yet initiated. PP&D
Work with the Manitoba Chapter of the Canada Green Building Council (CaGBC Manitoba Chapter) – and Manitoba Hydro to generate Winnipeg-specific energy performance data for existing buildings with a goal of strategically targeting the highest emitting buildings to ensure the greatest return on investment.	The Building Energy Disclosure Project was launched. To date, 161 buildings have registered in the project. The Canadian Green Building Council and Manitoba Hydro participate in the project. PP&D	The Office of Sustainability's building energy benchmarking, labelling and disclosure program will explore this opportunity. PP&D
Review City By-Laws to identify opportunities to facilitate retrofits and renovations that improve building energy performance, and/or increase the presence of renewable energy technologies.	Not yet initiated PP&D	Not yet initiated. PP&D

Action	2020 Status	Previous year reporting
Work with key stakeholder groups to accelerate the implementation of an energy performance labelling program for existing and new buildings.	The Building Energy Disclosure Project launched. Stakeholders from commercial and institutional sectors including Building Owners and Managers Association, the Manitoba Government, and Manitoba Hydro are part of the project advisory committee. Office of Sustainability	In 2019, Office of Sustainability secured funding from Natural Resources Canada to develop a building energy benchmarking, labelling and disclosure program. Planning is underway with a focus on voluntary disclosure from commercial and institutional buildings, including the City of Winnipeg. Office of Sustainability
5.2 Improve Energy Performance of New Buildings		
Complete a review of existing practices used to enforce existing Energy Codes and determine if there are opportunities for continuous improvement and innovation.	Complete PP&D	PP&D's Manager of Commercial Construction Permits is a member of the Standing Committee for Energy Efficiency with Canadian Commission on Building and Fire Codes for the National Research Council (NRC), which reviews and writes codes for energy efficient buildings in Canada. The Manager of Commercial Construction Permits has also been appointed to the National Research Council's Climate-Resilient Buildings and Core Public Infrastructure Initiative. This public infrastructure initiative is a $42 million program which addresses climate change and building infrastructure through design guides and code changes. Best practices and other insights from these committees are used to inform the department's enforcement of existing Energy Code and support continuous improvement. PP&D
Review City By-Laws to identify opportunities to help facilitate the innovative application of technologies that reduce energy use, and/or increase the presence of renewable energy technologies.	Not yet initiated PP&D	Not yet initiated. PP&D

Action	2020 Status	Previous year reporting
5.3 Increase Access to Educational Materials		
Work with American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), Building Energy Management Manitoba (BEMM), Canada Green Building Council (CaGBC), BOMA, Sustainable Buildings Manitoba and other key stakeholders such as builders to develop and offer courses to support green building standards.	The City, in partnership with the Canadian Green Building Council, is delivering workshops on benchmarking and energy efficiency for participants of the Building Energy Disclosure Project. Office of Sustainability	Not yet initiated. Office of Sustainability
Strategic Opportunity #6: Waste Reduction and Diversion		
6.1 Reduce Consumption and Increase Waste Diversion from Residential, Commercial and Industry		
Implement direction from the Comprehensive Integrated Waste Management Strategy to advance the priority of organic material diversion from landfill.	The Residential Food Waste Collection Pilot Program contractor was selected. Public engagement and bin delivery took place in fall 2020. Water & Waste	The Water and Waste Department will be reporting back in Council in 2019 with recommendations for a residential food waste collection pilot. Water & Waste
Continue to invest in educational and awareness programming to help maximize waste Diversion.	Ongoing Water & Waste	The Water and Waste Department continues to educate and promote current waste diversion programs through existing budgets. Recommendations regarding expanded promotion and education programs identified in the CIWMS Review will be provided to Council, along with the updated 10-year financial plan for the Solid Waste Utility, in Q3 2020. Water & Waste
6.3 Utilize Biosolids in Agriculture and Landscaping Industries		

Action	2020 Status	Previous year reporting
Continue to work with key stakeholders to accelerate the implementation of the Biosolids Master Plan and maximize the diversion of biosolids from landfill.	Brady Road Resource Management Facility Environment Act License was altered to allow for the ongoing biosolids composting operations and biosolids soil fabrication. Water & Waste	Planning undertaken for a new Class A digestion facility with capacity for future growth. Biosolids composting will continue on an as-needed basis to meet final cover needs at the Brady Road Resource Management Facility. Water & Waste
Strategically support (incentives, pilot projects, etc.) the application of biosolids in agriculture and the use of biosolids in soil manufacturing.	Ongoing. The Summit Soil fabrication pilot project entered Year 3. Six months of biosolids were beneficially used to fabricate soil on site in 2020, creating enough soil to cover and vegetate over 15 hectares of closed landfill. This brought the project total up to over 30 hectares. An Environment Act license proposal was submitted in 2020 to transition to an ongoing operation. Water & Waste	In May 2018, the City received regulatory approval for a three year (2018-2020) soil fabrication pilot project at Summit Landfill. In 2018, approximately 7,005 wet tonnes of biosolids were beneficially used as part of this pilot project. The pilot will continue through 2019 and 2020. The City received regulatory approval for in-field storage and land application of biosolids in July 2018. Approximately 10,932 tonnes of biosolids were stored in-field, and subsequently applied to agricultural land in the RM of Rosser. Water & Waste
6.4 Support Integrated Resource Recovery Opportunities		
Complete a feasibility analysis to determine the value of investing in integrated resource recovery projects (including capture reuse of methane and combined heat and power) within the City's wastewater facilities and landfills.	Brady Road Resource Management Facility Landfill Gas Energy Feasibility Study report was completed. Water & Waste	The Water and Waste Department will continue to assess the feasibility of converting landfill gas to energy with its partners. $200,000.00 was approved in the 2016 Capital Budget for this project. Water & Waste

Action	2020 Status	Previous year reporting
Strategic Opportunity #7: Community Climate Resiliency		
7.1 Implement Opportunities to Improve Winnipeg's Resilience and Adaptability to the Effects of a Changing Climate		
Develop a Climate Resiliency Strategy. Ensure the Strategy considers the co-benefits and opportunities for alignment with the City's climate mitigation efforts.	Not yet initiated Office of Sustainability	Via the 2020 Budget process, the Office of Sustainability has requested 1 FTE to be the dedicated lead on the development of a Climate Resiliency Strategy. In 2019, the Climate Change Working Group discussed climate mitigation priorities and staff participated in a ½ day workshop on climate adaptation and climate risks. In 2019/20, the Water and Waste Department is planning to update its LiDAR data to improve flood mapping, support bank stabilization and will continue to coordinate with the Red River Basin Commission on water mapping within the regional watershed. Office of Sustainability
Encourage climate-friendly landscaping in residential, commercial and industrial buildings	Not yet initiated Office of Sustainability	Not yet initiated. Office of Sustainability
Launch a public awareness campaign to highlight opportunities for residential climate resilience initiatives, including backyard composting and use of rain barrels.	Initiated in preliminary stages. Due to COVID-19, the City encouraged residents to garden during the pandemic by supporting Harvest Manitoba's Grow-a-Row program. Office of Sustainability	Not yet initiated. Office of Sustainability

Action	2020 Status	Previous year reporting
Explore regional opportunities to better connect the ecological network to add resiliency to Winnipeg and surrounding municipalities.	Not yet initiated Office of Sustainability	$100,000 from Water and Waste Department budget was used to support the Netley-Libau Marsh restoration project. In 2019/20, the Water and Waste Department is planning to update its LiDAR data to improve flood mapping, support bank stabilization and will continue to coordinate with the Red River Basin Commission on water mapping within the regional watershed. Office of Sustainability
7.2 Increase and Preserve Tree Canopy		
Continue and explore opportunities to expand the Winnipeg Releaf Program.	Public engagement on the Urban Forestry Strategic Plan has begun and is ongoing into 2021. This Plan will develop policy, recommendations and strategic actions to help protect, preserve, and grow the canopy over the next 20 years. Public Works	In September 2019, Mayor Bowman announced the One Million Tree Challenge to encourage people, organizations to plant one millions trees before the population reaches one million. Public Works
Continue partnership with the University of Winnipeg and Trees Winnipeg to map the City's canopy cover and to determine canopy cover targets for the city overall and for various land use categories.	Public engagement on the Urban Forestry Strategic Plan has begun and is ongoing into 2021. Public Works	Canopy cover will be addressed in the City's Comprehensive *Urban Forest Strategy* including canopy cover recommendations. Public Works
Prepare an Urban Forestry Strategic Plan that includes key indicators based on public health and climate mitigation considerations. The Strategic Plan should recognize and consider different strategies for Winnipeg's diverse communities, including new, developing and mature neighbourhoods.	Public engagement on the Urban Forestry Strategic Plan has begun and is ongoing into 2021. Public Works	Comprehensive Urban Forest Strategy is in progress with projected completion in June 2020. Public Works

Action	2020 Status	Previous year reporting
Continue to work with neighbourhoods /communities to ensure equal access to resources and funds that facilitate urban forest initiatives. In these cases, the City should consider how best to enable community organizations or other neighbourhood scale forestry investment initiatives.	Currently being addressed via Councillor Land Dedication Reserves on ad hoc basis within existing budgets. Public Works	Currently being addressed via Councillor Land Dedication Reserves on ad hoc basis and within existing budget. Expansion of these initiatives is limited due to lack of existing resources. Public Works