



Memorandum

To: Members of the Human Services Committee

From: Kumar Jensen, Chief Sustainability and Resilience Officer

Subject: Climate Action and Resilience Plan Implementation Strategy (2019-2020)

Date: February 27, 2019

Recommended action:

Discussion of the proposed Climate Action and Resilience Plan (CARP) Implementation Strategy (2019-2020).

Summary:

On December 10, 2018, City Council unanimously approved the Climate Action and Resilience Plan (CARP) and directed staff to bring an implementation strategy to Human Services for discussion in early 2019. The attached strategy was developed by City staff with feedback from the Environment Board. The CARP does not provide explicit guidance on how actions within the plan should be prioritized as a result staff prioritized actions that aligned with the six criteria: Mitigation Impact, Resilience Need, Dependency, Cost, Capacity and Momentum. Each criterion is described at the end of this memo.

- 1. Mitigation Impact** – Drawing down carbon emissions as quickly as possible is key to reducing the severity of climate change. What scale of emissions reduction potential does each action provide?
- 2. Resilience Need** – What climate hazards and impacts is the community already facing and how prepared to respond to those hazards is the community?
- 3. Dependency** – Do other actions within the plan rely on this action in order to be achieved, i.e. will completing this action allow others to be more impactful?
- 4. Cost** – What is the anticipated cost for the action, is it accounted for in the FY2019 budget and how will it be funded? What is the cost of inaction?
- 5. Capacity** – What is the staff and community partner capacity and expertise to carry out the action?
- 6. Momentum** – Is there already activity or progress being made on the action?

Implementation Strategy Timeline:

Staff proposes that the implementation strategy cover two calendar years, 2019 and 2020. To keep things as simple as possible staff recommend a new two year implementation strategy be developed every two years, much like the two year City Council Goals cycle. Please see Table 1 for the proposed Implementation Strategy Timeline based on calendar year and broken into quarters.

Table 1.

Year	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
2019	Propose 2019-2020 Strategy	Approve 2019-2020 Strategy	Budget FY20 Discussions	
2020	Report Progress on 2019-2020 Strategy		Propose 2021-2022 Strategy Budget FY21 Discussions	
2021	Final Report on 2019-2020 Strategy		Budget FY22 Discussions	
2022	Report Progress on 2021-2022 Strategy		Propose 2023-2024 Strategy Budget FY23 Discussions	
2023	Final Report on 2021-2022 Strategy		Budget FY24 Discussions	
2024	Report Progress on 2023-2024 Strategy		Propose 2025 Strategy Budget FY25 Discussions	
2025	Final Report on 2023-2024 Strategy Evaluate Plan and Update			

The 2019-2020 strategy is off from the City's current calendar year budget process. Table 1. illustrates how future implementation strategies align with the budget process timeline. In addition, staff recommends that in 2025 the City undertake full scale evaluation and update to CARP. The Report Progress and Final Report items will serve as the annual CARP progress reports.

Implementation Strategy:

Attachment A: CARP Implementation Strategy (2019-2020) is broken into two primary lists, 2019 Actions and 2020 Actions. Where possible staff included the anticipated cost of the action, funding source, status and primary department lead. The majority of the actions are administrative projects and procedures that City staff and community partners can implement. There are, however, a handful of recommended ordinances and policy changes for consideration. Staff recommends coming back to Human Services in April, 2019 to discuss the appropriate delegation and process for developing the policies highlighted in the implementation strategy.

Attachments:

Attachment A: CARP Implementation Strategy (2019-2020)

2019 Implementation Action List

#	Department	Status	Action	Cost	Funding Source
1	AS	Ongoing	Provide composting at all municipal facilities	\$8,000.00	
2	AS		Conduct a municipal infrastructure vulnerability assessment	\$20,000.00	
3	CD		Require Net-zero Emissions building codes for all buildings by 2030	\$20,000.00	Good Neighbor Fund
4	CD		Develop and electric vehicle policy roadmap	Staff Time	
5	CD	Ongoing	Expand Divvy for everyone	Staff Time	
6	CD		Launch a preliminary study of transportation mode shift evaluation (student research)	Staff Time	
7	GD	Scheduled	Optimize Divvy station locations	Staff Time	
8	CD	Initiated	Provide education about the Cook County Demolition Debris Diversion Ordinance to contractors and the option of deconstruction to residents	Staff Time	
9	CD/CMO	Initiated	Evaluate barriers for low/moderate income housing properties and affordable housing units in achieving Net-zero Emissions and climate resilient building standards while maintaining affordability	\$250,000.00	Partners for Places Grant (Submitted)
10	CD/CMO	Ongoing	Revise reporting for complete and greens streets and evaluate policy	Staff Time	
11	CMO	Ongoing	Continue implementation of the Energy and Water Benchmarking Ordinance	Staff Time	N/A
12	CMO	Ongoing	Launch a sustainable business recognition program to engage businesses and increase diversion rates	\$30,000.00	Good Neighbor Fund
13	CMO	Scheduled	Host three community resilience events to educate residents on climate change and its everyday impacts	\$10,000.00	NLC Grant (awarded)
14	CMO	Scheduled	Complete a municipal operations greenhouse gas emissions inventory	Staff Time	
15	CMO	Ongoing	Expand environmental education locations and programming within Evanston specifically to raise awareness about climate change and its effects on the community and the world	Staff Time	
16	CMO	Initiated	Incentivize businesses to purchase renewable energy (sustainable business recognition)	Staff Time	
17	CMO	Scheduled	Explore expanding reach of electricity aggregation and fight sourcing requirements	Staff Time	
18	CMO		Begin phasing out the use of single-use, petroleum-based products like plastic shopping bags, straws, and take-out containers through education and policy	TBD	
19	CMO		Create and implement a zero waste strategy	TBD	
20	CMO		Evaluate options available for Evanston customers to purchase renewable energy such as Community Solar, municipal alternative retail electric supplier (ARES), Power Purchase Agreements, etc.	\$20,000.00	Good Neighbor Fund
21	CP	Ongoing	Achieve & maintain the Natural Wildlife Certification and Maintain Monarch Pledge	\$1,000.00	Forestry
22	CP	Initiated	Develop definition of natural and open spaces	Staff Time	
23	CP	Initiated	Deploy education materials to alert property owners to reduce water during storms	\$5,000.00	Sewer Fund
24	Multiple	Initiated	Host green/sustainable jobs fairs and training opportunities locally	\$5,000.00	Good Neighbor Fund
25	Multiple		Develop a Net-Zero emissions policy for new municipal buildings in 2019		
26	PWA	Scheduled	Issue an RFP for solar on feasible municipal facilities	Staff Time	
27	PWA		Prepare a comprehensive stormwater plan	\$100,000.00	Sewer Fund
28	PWA	Scheduled	Structure the commercial solid waste franchise RFP to support achieving 50% diversion rate by 2025 and Zero Waste by 2050	\$15,000.00	Solid Waste Fund
Total				\$484,000.00	

2020 Implementation Action List

#	Department	Status	Action	Cost	Funding Source
1	AS		Install LED lighting for all lighting on city properties, street lights, and traffic lights by 2025. Install 100% LED lighting on all City projects, facilities and infrastructure with lighting needs by 2025 (exceptions may be made if technology is not available to meet project requirements).	TBD	
2	AS		Develop a facility energy management strategy & zero emissions vehicle purchasing strategy	\$15,000.00	
3	Multiple		Hire a Utility Operations Analyst	\$90,000.00	TBD
4	CD		Complete a sidewalk gap analysis	Staff Time	
5	CD	Scheduled	Implement bus shelter installations with PACE	Staff Time	
6	CD		Adopt a retro-commissioning requirement for large buildings	TBD	
7	CD		Institute a residential energy performance transparency program	TBD	
8	CMO		Develop deconstruction and reuse requirements for municipal facilities	Staff Time	
9	CMO	Scheduled	Evaluate options for renewable energy purchase for municipal operations	TBD	
10	CMO		Provide information and resources on the installation of onsite renewable energy systems	Staff Time	
11	PWA		Determine what areas and infrastructure are most vulnerable to flooding	TBD	Sewer Fund
12	PWA		Develop a stormwater utility to fund improved stormwater management for property owners	\$250,000.00	Sewer Fund
13	PWA	Scheduled	Install Green Alleys where feasible	TBD	Sewer Fund
14	PWA		Target specific types of infrastructure to implement green infrastructure (alleys, parks, vacant lots, etc.)	Staff Time	Sewer Fund
15	PWA	Ongoing	Facilitate reduction in water use by top 20 water consumers	Staff Time	Water Fund
Total				\$355,000.00	

Legend

AS – Administrative Services CD – Community Development CMO – City Manager’s Office
 CP – Community Partner PWA – Public Works Agency

Summary

The total 2-year determined cost to implement the strategy is \$839,000.00. Current identified grant funding equals \$260,000.00. The anticipated initial cost to the City is \$579,000.00. There are a number of actions that still need cost estimates, but the majority of those will take place in 2020, which allows staff additional time to identify funding and develop estimates. There are 28 actions identified for 2019 and 15 for 2020 for a total of 43 actions. Thirteen of those actions have already been initiated or are ongoing and progress is being made towards their completion. The City is also working on developing a robust network of partner organizations to support implementation, some initial partners include: Institute for Sustainability and Energy at Northwestern (ISEN), Evanston Development Cooperative, Citizens’ Greener Evanston, Elevate Energy, Center for Neighborhood Technology, Evanston Community Foundation, Chicago Community Trust, EvanSTEM, LakeDance, Evanston ReBuilding Warehouse, and others.

2019 OMNIBUS ORDINANCE (Possible Contents)

Topics assigned to Committees. Committees seek to produce 3-10 wheras statements of rationale for action, and bullet points outlining the content for Legal Dept to draft. 1-2 Committee members assigned to answer questions from Legal Dept. Legal Dept draft returns to Committee for review and approval before advancing to City Council.

<p>Environment Board</p> <ul style="list-style-type: none"> Consider follow on steps to new Natural Areas resolution: <ul style="list-style-type: none"> Expanding natural areas Prioritize native species on public property. Phase out leafblowers, lawnmowers and construction equipment and replace with electric or battery-powered options. Adopt tree preservation ordinance for private property. (City sponsored Contest?) consumption reduction: reuse, repair, and repurposing initiatives. 	<p>Design & Project Review (DAPR) > Plan Commission. DAPR sends Plan Commission periodic drafts. Final draft requires Plan Commission approval.</p> <ul style="list-style-type: none"> Capital projects divert construction and demolition debris from landfills and incorporate % reclaimed material. Energy audits required for residential, commercial and industrial modifications and additions. Update benchmarking ordinance to add other data. Require permeable surfaces and green infrastructure. Reduce threats to vulnerable wildlife species, particularly birds (migratory and local). Gray water allowed for irrigation and other domestic uses. Require recycling at all properties. Expedited permit for electric vehicle charging. <p>Landscaping preserves trees, natural areas, encourages native plantings.</p>	<p>City Manager's Office Align investment strategies and advocacy initiatives with CARP goals. <u>Resolution or policy change:</u> Waste management standards ensure:</p> <ul style="list-style-type: none"> Landfills are managed responsibly & use methane gas capture. Waste haulers complete regular waste characterization studies for each waste stream. <p>Human Services Committee</p> <ul style="list-style-type: none"> Plastic Bag Fix Environmental Justice resolution. Plastic straw and stirrer-free or opt-in policy
<p>Transportation/Parking Committee</p> <ul style="list-style-type: none"> No idling: steeper fines for diesel vehicles. 		

2020 OMNIBUS ORDINANCE, RESOLUTIONS AND POLICY CHANGES

Follows same process as 2019 Omnibus Ordinance, with any process enhancements.

<p>Utilities Commission (with Plan Commission?) Create Net Zero emissions for new city buildings, plus strategy to transition to net zero citywide</p>	<p>Design & Project Review (DAPR) > Plan Commission (PC).</p> <ul style="list-style-type: none"> Best practices green building standards. Retro-commissioning larger buildings and energy audits for smaller buildings. Sustainable business recognition program. Require infrastructure that encourages walking, bicycling and on transit, reduced parking. 	<p>Zoning to Plan Commission Incentives (e.g. density bonuses, expedited review) for mixed-used zoning (residential, retail and office uses) and sustainable transportation practices.</p>
<p>Economic Development</p> <ul style="list-style-type: none"> Eliminate Food waste: donate, reduce, reuse, or compost Eliminate petroleum-based, single-use products. Encourage bulk food sales <p>Transportation Committee develops timeline, assigns responsibilities to incentivize electric/hybrid vehicles. Earnmark fee income for transit, bicycle and pedestrian resources.</p>	<p>Environment Board</p> <ul style="list-style-type: none"> Green Infrastructure ordinance Prioritize planting/preservation of native species on public and private property. Advocacy plan to return home rule of pesticides. City sponsored bill? 	

LATER ORDINANCES

Same process as earlier, with any process enhancements.

Utilities Commission (with **Plan Commission**?) explores feasibility of climate action tax/fee paid by largest GHG producers

Design & Project Review (DAPR) > Plan Commission (PC).

- Require Net Zero building codes for residential and commercial new construction and retrofits by 2030.
- Create a Property-Assessed Clean Energy (PACE) financing program