Appendix B – Action Evaluation Results

The City evaluated all plan actions against 9 co-benefit and feasibility criteria. For a given action, each evaluation criterion was rated on a qualitative rating scale to reflect the degree to which implementation of the action will impact that criterion. The following tables present the rating scales used for the co-benefit and feasibility criteria. All co-benefits were evaluated using the same rating scale shown in the first table, ranging from Very Positive to Very Negative. Feasibility rating scales were customized to each criterion, as show in the remaining tables. Assessing action impacts across multiple criteria helped to provide a more complete picture of the actions' broader impact beyond GHG reductions.

The ASAP tool provides different graphic and tabular outputs to help users interpret the evaluation results, which are provided in part at the end of this appendix, including a ranking of actions by GHG reduction potential (see Figure B1), actions by co-benefit score (see Figure B2), and actions by feasibility score (see Figure B3). The City team identified actions that appear in each of these lists as a starting point for prioritization because these actions provide high GHG reductions, important additional community benefits, and have a higher degree of implementation feasibility. The City team also chose to prioritize actions that provide specific community co-benefits, including positive benefits for climate justice, green infrastructure, and jobs creation.

The remainder of this appendix presents the full evaluation results for each action.

Ratings Legends

Co-Benefit Rating Legend (Public Health, Greenspace and Green Infrastructure, Employment, Cost of Living)

Very Negative	The action has a negative impact across the community
Somewhat Negative	The action has a negative impact across a small portion of the community or a slightly negative impact across the entire community
Neutral	The action has no impact, or the impact is unknown
Somewhat Positive	The action has a positive impact across a small portion of the community or a slightly positive impact across the entire community
Very Positive	The action has a positive impact across the community

Climate Justice Rating Legend

Negative	The action is relevant to climate justice communities and does not address equity or has a negative impact on equity
Neutral	The action does not address an issue/sector that affects climate justice communities
Positive	The action is relevant to climate justice communities and actively addresses and has a positive impact on equity

Complexity to Implement – City Rating Legend

Very Complex	The City has no authority, requires major policy change, no available staff or expertise
Somewhat Complex	Between not complex and very complex
Not Complex	No authority or policy barriers, staff capacity available

Political Acceptability Rating Legend

Politically Challenging	The action is challenging to implement due to negative public opinion and stakeholder pushback
Neutral or Unclear	The action is neither politically acceptable or challenging due to unclear or truly split public opinion
Politically Acceptable	The action is acceptable to implement due to positive public opinion and stakeholder support

Additional Costs – City and Private Rating Legend

Very Large Cost	City: >$1 million Private: Approx. cost of a solar installation or EV
Large Cost	City: $500k-$1 million Private: Approx. cost of HVAC replacement or EV charger
Some Cost	City: $50k-$500k Private: Approx. cost of making a building EV or solar ready
Very Little Cost	City: $0-$50k Private: Approx. cost of lightbulb or fixture replacement

No Cost	City and Private: $0

Action Rankings

NOTE: Highlighted actions are prioritized actions

Action (priority in yellow)	**Public Health**	**Greenspace and Green Infrastructure**	**Employment**	**Cost of Living**	**Climate Justice**	**Complexity to Implement - City**	**Political Acceptability**	**Additional Costs - City**	**Additional Costs - Private**
G-1: Reduce emissions for City employee commute.	Somewhat Positive	Neutral	Neutral	Somewhat Positive	Neutral	Not Complex	Politically Challenging	Very Little Cost	No Cost
G-2: Collaborate with Miami-Dade County and local advocacy groups to increase utilization of biking as a transit method by implementing the Bicycle Master Plan and expanding the number of protected, green bikeways.	Very Positive	Somewhat Positive	Very Positive	Somewhat Positive	Positive	Very Complex	Neutral or Unclear	Very Large Cost	No Cost
G-3: Expand micromobility options throughout the entire city including Citibikes, scooters, and electric bikes.	Somewhat Positive	Neutral	Somewhat Positive	Somewhat Positive	Positive	Very Complex	Politically Challenging	No Cost	No Cost
G-4: Develop a Trolley Master Plan including a long-term vision for the program and route updates.	Somewhat Positive	Neutral	Somewhat Positive	Very Positive	Positive	Very Complex	Politically Acceptable	Large Cost	No Cost
G-5: Build upon existing transit-oriented development policies in Miami21 to increase residential density, access to goods and services, and decrease single-occupancy vehicle use focusing on areas surrounding Metrorail stations.	Somewhat Positive	Neutral	Neutral	Somewhat Positive	Negative	Very Complex	Politically Acceptable	No Cost	No Cost

Action (priority in yellow)	Public Health	Greenspace and Green Infrastructure	Employment	Cost of Living	Climate Justice	Complexity to Implement - City	Political Acceptability	Additional Costs - City	Additional Costs - Private
G-6: Establish parking disincentives, such as parking maximums and dynamic parking prices, to discourage the use of single occupancy gas vehicles.	Somewhat Positive	Neutral	Somewhat Negative	Somewhat Negative	Negative	Somewhat Complex	Politically Challenging	No Cost	No Cost
G-7: Adopt transportation demand management ordinance to require certain employers and developers to establish plans to reduce single-occupant vehicle use and traffic during peak hours among employees and residents.	Somewhat Positive	Neutral	Neutral	Somewhat Positive	Neutral	Somewhat Complex	Politically Challenging	No Cost	Some Cost
G-8: Work with partner entities to create bus lanes in strategic, key corridors.	Somewhat Positive	Neutral	Somewhat Positive	Somewhat Positive	Positive	Very Complex	Neutral or Unclear	Very Large Cost	No Cost
G-9: Work with Miami-Dade County and local advocacy groups to increase utilization of public transit through investments in safety, improving public transit literacy, and campaigns.	Somewhat Positive	Neutral	Neutral	Somewhat Positive	Positive	Very Complex	Politically Acceptable	Very Little Cost	No Cost
G-10: Improve pedestrian experience and safety through investments in sidewalks such as ADA compliance measures and increasing number of crosswalks, especially in low-medium income areas.	Somewhat Positive	Neutral	Somewhat Positive	Neutral	Positive	Very Complex	Politically Challenging	Very Large Cost	No Cost

Action (priority in yellow)	Public Health	Greenspace and Green Infrastructure	Employment	Cost of Living	Climate Justice	Complexity to Implement - City	Political Acceptability	Additional Costs - City	Additional Costs - Private
R-1: Starting in 2024, require all new buildings to be solar-ready and storage-ready.	Neutral	Neutral	Neutral	Neutral	Negative	Somewhat Complex	Neutral or Unclear	No Cost	Some Cost
R-2: Join FPL SolarTogether program to purchase City's building electricity from solar.	Neutral	Neutral	Neutral	Neutral	Neutral	Not Complex	Politically Challenging	Large Cost	No Cost
R-3: Promote community participation in FPL SolarTogether program, especially among renters, to purchase 100% of their electricity from solar.	Neutral	Neutral	Neutral	Neutral	Neutral	Not Complex	Politically Acceptable	No Cost	No Cost
R-4: Provide additional policy and financial incentives to encourage private solar installations and identify incentives that would appeal to owners of affordable housing	Neutral	Neutral	Somewhat Positive	Neutral	Positive	Not Complex	Politically Acceptable	Very Little Cost	No Cost
R-5: Install solar and storage in public buildings or parking structures where feasible, prioritizing critical facilities.	Neutral	Neutral	Neutral	Neutral	Neutral	Very Complex	Politically Acceptable	Very Large Cost	No Cost
R-6: Partner with community organizations such as local non-profits, trade organizations, and electric and gas utilities, to develop a building electrification education program to provide information and technical assistance.	Somewhat Positive	Neutral	Somewhat Positive	Somewhat Negative	Neutral	Not Complex	Neutral or Unclear	Very Little Cost	No Cost

Action (priority in yellow)	Public Health	Greenspace and Green Infrastructure	Employment	Cost of Living	Climate Justice	Complexity to Implement - City	Political Acceptability	Additional Costs - City	Additional Costs - Private
EV-1: Develop EV Master Plan to support the growth of electric vehicle ownership.	Neutral	Neutral	Neutral	Neutral	Neutral	Somewhat Complex	Politically Acceptable	No Cost	No Cost
EV-2: Develop technical guidance for building owners/managers to facilitate in EV charging infrastructure installations in existing buildings.	Neutral	Neutral	Neutral	Neutral	Neutral	Not Complex	Politically Acceptable	No Cost	No Cost
EV-3: Partner with major employers and multifamily building owners to install EV chargers in parking lots/garages.	Somewhat Positive	Neutral	Somewhat Positive	Neutral	Neutral	Somewhat Complex	Politically Acceptable	No Cost	Large Cost
EV-4: Build on EV Capability Ordinance to require EV charger installations in new developments starting in 2025.	Somewhat Positive	Neutral	Somewhat Positive	Neutral	Neutral	Somewhat Complex	Politically Challenging	No Cost	Large Cost
EV-5: Partner with existing electric vehicle non-profits to promote public awareness of the benefits and real costs of EV purchasing and ownership, especially addressing low-income drivers and their concerns.	Neutral	Neutral	Neutral	Neutral	Positive	Somewhat Complex	Politically Acceptable	No Cost	No Cost
EV-6: Electrify 100% of public vehicle fleet, including trolleys by 2035.	Somewhat Positive	Neutral	Neutral	Neutral	Positive	Very Complex	Neutral or Unclear	Large Cost	No Cost
EV-7: Evaluate the potential to implement a low emission zone in the urban core.	Neutral	Neutral	Neutral	Neutral	Neutral	Somewhat Complex	Neutral or Unclear	Very Little Cost	No Cost

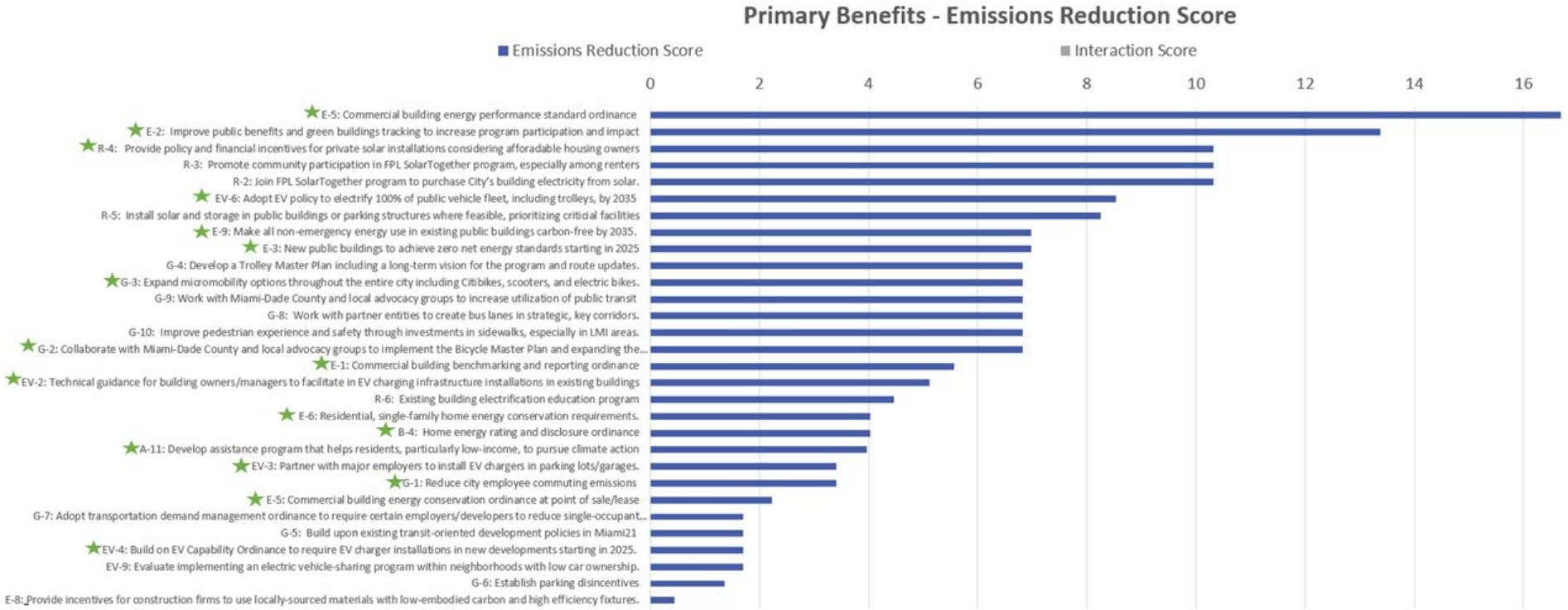
Action (priority in yellow)	Public Health	Greenspace and Green Infrastructure	Employment	Cost of Living	Climate Justice	Complexity to Implement - City	Political Acceptability	Additional Costs - City	Additional Costs - Private
EV-8: Evaluate implementing an electric vehicle-sharing program within neighborhoods with low car ownership.	Neutral	Neutral	Neutral	Neutral	Positive	Not Complex	Politically Acceptable	No Cost	No Cost
E-1: Implement Building Efficiency 305 (BE305) program requiring energy benchmarking and disclosure for commercial, multi-family residential, and City of Miami municipal buildings over 20,000 sq. ft	Neutral	Neutral	Somewhat Positive	Neutral	Neutral	Very Complex	Neutral or Unclear	Some Cost	Very Little Cost
E-2: Improve public benefits and green buildings tracking to increase program participation and impact.	Somewhat Positive	Somewhat Positive	Neutral	Somewhat Positive	Neutral	Somewhat Complex	Neutral or Unclear	No Cost	Some Cost
E-3: Require all new public buildings to be built to zero net energy standards starting in 2025.	Somewhat Positive	Neutral	Neutral	Neutral	Neutral	Somewhat Complex	Neutral or Unclear	Some Cost	No Cost
E-4: Adopt a residential, single-family home energy rating and disclosure ordinance.	Neutral	Neutral	Very Positive	Somewhat Positive	Negative	Very Complex	Politically Challenging	Very Little Cost	Some Cost
E-5: Adopt building performance standard for commercial, multi-family residential, and City of Miami municipal buildings over 20,000 sq. ft	Neutral	Neutral	Very Positive	Neutral	Neutral	Very Complex	Politically Challenging	Large Cost	Large Cost

Action (priority in yellow)	Public Health	Greenspace and Green Infrastructure	Employment	Cost of Living	Climate Justice	Complexity to Implement - City	Political Acceptability	Additional Costs - City	Additional Costs - Private
E-6: Establish residential, single-family home energy conservation requirements.	Somewhat Positive	Neutral	Very Positive	Very Positive	Positive	Very Complex	Politically Challenging	Very Little Cost	Large Cost
E-7: Develop energy reduction targets for City of Miami municipal buildings.	Neutral	Neutral	Neutral	Neutral	Neutral	Somewhat Complex	Politically Acceptable	Very Little Cost	No Cost
E-8: Provide incentives for construction firms to use locally-sourced materials with low-embodied carbon and high efficiency fixtures.	Neutral	Neutral	Neutral	Somewhat Positive	Neutral	Somewhat Complex	Politically Acceptable	No Cost	No Cost
E-9: Make all non-emergency energy use in existing public buildings carbon-free by 2035. Explore and adopt as much clean energy emergency generation and battery storage as possible.	Somewhat Positive	Neutral	Somewhat Positive	Neutral	Neutral	Somewhat Complex	Neutral or Unclear	Large Cost	No Cost
A-1: Improve city data on waste streams and disposal. Establish a per capital waste goal.	Neutral	Neutral	Neutral	Neutral	Neutral	Very Complex	Neutral or Unclear	No Cost	Some Cost
A-2: Train City employees on emerging resilient and sustainable buildings initiatives and technologies including solar PVs, energy storage, EV charging, energy efficiency, electrification, and climate adaptation policies.	Neutral	Neutral	Neutral	Neutral	Neutral	Somewhat Complex	Politically Acceptable	Some Cost	No Cost

Action (priority in yellow)	Public Health	Greenspace and Green Infrastructure	Employment	Cost of Living	Climate Justice	Complexity to Implement - City	Political Acceptability	Additional Costs - City	Additional Costs - Private
A-3: Implement green and sustainable special events program.	Neutral	Neutral	Neutral	Neutral	Neutral	Somewhat Complex	Politically Acceptable	Very Little Cost	Very Little Cost
A-4: Train City staff on climate change.	Neutral	Neutral	Neutral	Neutral	Neutral	Somewhat Complex	Politically Acceptable	Very Little Cost	No Cost
A-5: Work with existing advocacy organizations and non-profits to improve citywide climate literacy and awareness.	Neutral	Neutral	Neutral	Neutral	Neutral	Somewhat Complex	Politically Acceptable	No Cost	No Cost
A-6: Improve recycling participation and reduce contamination.	Neutral	Neutral	Neutral	Neutral	Neutral	Not Complex	Politically Acceptable	Very Little Cost	No Cost
A-7: Work with community composting organizations to increase household composting.	Neutral	Neutral	Neutral	Neutral	Neutral	Somewhat Complex	Neutral or Unclear	Very Little Cost	No Cost
A-8: Help restaurants and businesses reduce their waste stream by connecting them with resources to reduce single-use plastic, integrate composting, and recover and redistribute surplus food.	Somewhat Positive	Neutral	Somewhat Positive	Neutral	Positive	Not Complex	Politically Acceptable	Very Little Cost	No Cost
A-9: Lobby for climate-forward policies at the state and federal level.	Neutral	Neutral	Neutral	Neutral	Neutral	Somewhat Complex	Politically Challenging	No Cost	No Cost
A-10: Advocate for climate-forward policies from FPL that support carbon-free energy at scale and energy efficiency.	Neutral	Neutral	Neutral	Neutral	Neutral	Not Complex	Politically Challenging	No Cost	No Cost
A-11: Develop a financial and technical assistance program	Somewhat Positive	Neutral	Somewhat Positive	Somewhat Positive	Positive	Very Complex	Politically Acceptable	Large Cost	No Cost

Action (priority in yellow)	Public Health	Greenspace and Green Infrastructure	Employment	Cost of Living	Climate Justice	Complexity to Implement - City	Political Acceptability	Additional Costs - City	Additional Costs - Private
that helps residents, particularly low-income, to pursue climate action.									
A-12: Establish construction and demolition waste diversion requirements.	Neutral	Neutral	Somewhat Positive	Neutral	Neutral	Very Complex	Politically Challenging	No Cost	Some Cost
A-13: Develop end-of-life requirements for solar PV and other relevant renewable energy technologies, including battery storage.	Neutral	Neutral	Neutral	Neutral	Neutral	Somewhat Complex	Politically Acceptable	No Cost	Very Little Cost

Figure B1 – Action Evaluation – Top GHG Reduction Score Actions[1]



[1] Starred actions are prioritized actions

Figure B2 – Action Evaluation – Top Co-Benefit Score Actions[2]

[2] Starred actions are prioritized actions

Figure B3 – Action Evaluation – Top Feasibility Score Actions[3]

[3] Starred actions are prioritized actions