



400 South Federal Hwy  
Hallandale Beach, FL 33009

## City of Hallandale Beach City Commission Agenda Cover Memo

<b>Meeting Date:</b>	March 6, 2019		<b>Item Type:</b> <i>(Enter X in box)</i>	<b>Resolution</b>  X	<b>Ordinance</b>	<b>Other</b>	
<b>Fiscal Impact:</b> <i>(Enter X in box)</i>	<b>Yes</b>	<b>No</b>	<b>Ordinance Reading:</b> <i>(Enter X in box)</i>	<b>1<sup>st</sup> Reading</b>		<b>2<sup>nd</sup> Reading</b>	
	X		<b>Public Hearing:</b> <i>(Enter X in box)</i>	<b>Yes</b>	<b>No</b>	<b>Yes</b>	<b>No</b>
					X		X
<b>Funding Source:</b>	Utility Fund Non-Departmental Outside Services		<b>Advertising Requirement:</b> <i>(Enter X in box)</i>	<b>Yes</b>		<b>No</b>	
<b>Account Balance:</b>	\$303,536.14		<b>Quasi-Judicial:</b> <i>(Enter X in box)</i>	<b>Yes</b>		<b>No</b>	
<b>Project Number :</b>	NA		<b>RFP/RFQ/Bid Number:</b>	NA			
<b>Contract/P.O. Required:</b> <i>(Enter X in box)</i>	<b>Yes</b>	<b>No</b>	<b>Strategic Plan Priority Area:</b> <i>(Enter X in box)</i>				
			Safety <input checked="" type="checkbox"/>				
			Quality <input checked="" type="checkbox"/>				
			Vibrant Appeal <input type="checkbox"/>				
<b>Sponsor Name:</b>			<b>Department:</b> Public Works	Steven F. Parkinson, P.E., PWLF, Assistant City Manager/Public Works Director			

**Short Title:**

A RESOLUTION OF THE MAYOR AND CITY COMMISSION OF THE CITY OF HALLANDALE BEACH, FLORIDA; AFFIRMING THE CITY OF HALLANDALE BEACH'S COMMITMENT TO THE GOALS CONTAINED IN THE PARIS CLIMATE ACCORD AND THE UNITED NATIONS IPCC SPECIAL REPORT 15 (SR 15); AUTHORIZING A GREENHOUSE GAS INVENTORY TO DETERMINE THE NECESSARY STEPS TO REDUCE GREENHOUSE GAS EMISSIONS; PROVIDING AN EFFECTIVE DATE.

## **Staff Summary:**

### **Background:**

This item seeks City Commission's approval to affirm the City of Hallandale Beach's support of Special Report on Global Warming of 1.5°C (SR15). With this approval the City Commission accepts to put forth the goals and objectives of performing a greenhouse gas inventory within the next Fiscal Year.

The Intergovernmental Panel on Climate Change (IPCC) is the United Nations body for assessing the science related to climate change. Created in 1988, the IPCC's objective is to provide scientific information so that policymakers can develop informed and effective climate policies. To date, the IPCC has produced five (5) assessment reports, with the most recent published in 2014. Additionally, the IPCC produces Special Reports, which includes the Special Report on Global Warming of 1.5°C (SR15), and was released on October 8, 2018 (Exhibit 2).

SR15 relates to the Paris Climate Accord (Paris Accord), which was signed by 196 countries (including the United States) in December 2015. The Paris Accord sets a goal to limit global temperature increase to well below 2°C. According to NASA since 1880, the average global temperature has risen 0.8°C. Since 1975, global temperatures have increased at a rate of roughly 0.15-0.20°C per decade. After President Trump reneged on the United States' commitment to the Paris Accord, over 350 mayors have adopted the Paris Accord and its goals, including Hallandale Beach on August 17, 2017 (Exhibit 3). However, according to SR15, even with the full implementation of the goals from the Paris Accord, global net emissions are projected to be at 3°C by 2100. This projection is based on current emissions. Only by reducing carbon dioxide emissions (from 2010 baseline) to 45% by 2030 and 100% by 2055, will the world be able to avoid catastrophic climate impacts.

### **Current Situation:**

Scientific consensus recognizes the reality of human driven climate change. Climate change has been widely recognized by government, business, and academic leaders as a worldwide threat, with the potential to harm our economy and other aspects of society. Recently, the National Climate Assessment found that the current high rate of greenhouse gas emissions could cost the U.S up to 10% of the national GDP by the end of the Century (Exhibit 4). This potential cost decreases as emissions decrease. Many local, regional, and global economies are now prioritizing efficiency and transitioning to low-carbon energy sources.

The world is currently experiencing negative impacts from climate change. Between 1.5°C and 2°C of net global warming, there is a tipping point where conditions for life on Earth becomes miserable at best and hostile at worst. SR15 asserts with high confidence that achieving and sustaining rapid de-carbonization will be required to minimize sea level rise, reduce risks to coral reef ecosystems, and limit impacts to human health and livelihoods in the subsequent

decades and centuries. Greenhouse gas emissions have a delayed effect on climate and how we act today will explicitly impact the lives and environment of our children and grandchildren.

The City of Hallandale Beach, as a coastal community, is vulnerable to the impacts of sea-level rise as well as extreme heat, changes in precipitation and extreme weather. As a coastal community City Staff recommends to attain the emissions targets set forth in SR15. As the City has adopted the mantra of "Progress, Innovation, Opportunity," staff also recommends that the City commit to these goals for rapid de-carbonization as they are progressive, innovative, and promote a long-term future of opportunities within the City.

The City of Hallandale Beach has not yet adopted a greenhouse gas reduction plan. However, the Sustainability Action Plan includes a 2019-targeted project to conduct a greenhouse gas emission inventory and set reduction targets (Exhibit 5). In order for the City to affirm and act on its support for the Paris Agreement and SR15, it must have a baseline greenhouse gas emission inventory.

Upon the completion of a greenhouse gas emission inventory, the City will be able to address greenhouse gas concerns by making its buildings, facilities and its fleet more efficient; by creating and enforcing a regular maintenance plan; by implementing retrofitting projects and establishing procurement requirements to buy energy efficient products. The City may be required to shift to using renewable energy, which may involve the installation of solar panels at City's facilities and parks. Last, the City will need to create an effective outreach program that will incentivize residents to adopt many of the practices the City will be implementing.

It is the recommendation of the Green Initiatives Coordinator that the City pass a Resolution stating that it is committed to performing a full-scale greenhouse gas emission inventory within the next fiscal year and strive to reduce emissions by 45% by 2030 and 100% by 2055. Furthermore, the City should state its intent to register its eventual plan on the Non-State Action Zone for Climate Action (NAZCA) website. This platform houses over 6,000 commitments by subnational governments around the world and provides transparent reporting pertaining to progress made towards fulfilling stated goals.

With this Resolution, the City states its commitment to surpass those goals and targets with new goals put forth in SR15.

**Fiscal Impact:**

Staff is requesting that \$15,000.00 (Exhibit 6) be allocated in the Utilities Fund for Fiscal Year 2019-2020 budget for the purpose of performing a greenhouse gas emission inventory and propose measures to reach desired goals.

**Why Action is Necessary:**

City Commission approval is needed in order to pass a Resolution affirming the City's commitment to SR15 goals and targets.

**Proposed Action:**

Staff recommends approval of the attached Resolution authorizing the City Manager to affirm the City of Hallandale Beach's support of SR15 and state that the City will strive to meet the goals and objectives laid forth in the report by performing a greenhouse gas inventory within the next Fiscal Year.

**Attachment(s):**

- Exhibit 1 – Resolution
- Exhibit 2 – Special Report on Global Warming of 1.5°C Summary for Policymakers
- Exhibit 3 – City of Hallandale Beach Resolution 2017-091
- Exhibit 4 – National Climate Assessment
- Exhibit 5 – Sustainability Action Plan
- Exhibit 6 – Greenhouse Gas Emission Inventory Quote

Prepared by:



Alyssa Jones-Wood  
Green Initiatives Coordinator

Department Head Review:



Steven F. Parkinson, Assistant City  
Manager/Director of Public Works