

# CLIMATE CHANGE FAQ

## What is it and how will it impact my community?



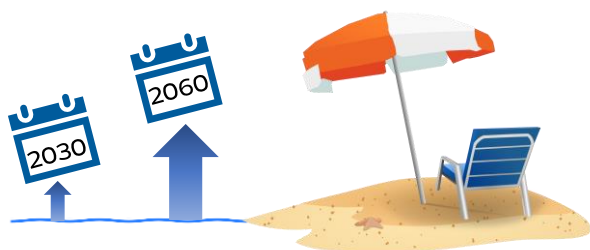
### What is the difference between climate & weather?

**Weather** is the day-to-day conditions we see in our temperature and precipitation. **Climate** is the long-term patterns of these conditions for any area.

### What is the difference between global warming & climate change?

**Global warming** is the increase in average global temperatures due to greenhouse gas (GHG) emissions. **Climate change** is the broader change we see in conditions on Earth, but these changes vary by location and over time.

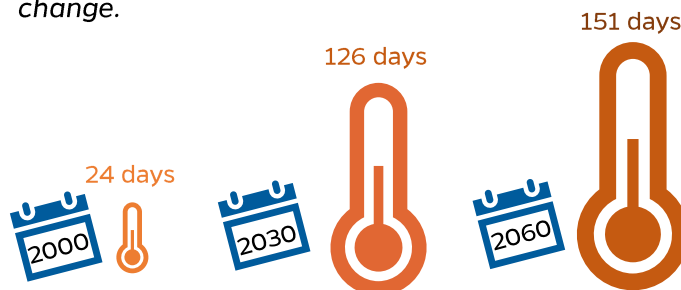
Sea-level is expected to rise 6-10 inches by 2030 & 14-26 inches by 2060 in South Florida.



Higher sea levels will increase the likelihood & the impacts of sunny-day flooding & tropical storm surge.



South Florida typically has a hot, wet season from May to October and a mild, dry season from November to April. But days with heat indices over 105°F are expected to increase due to climate change.



### How do we know climate is changing?

Several of the hottest years on record have occurred since 2010 as increasing GHG emissions trap more heat due to the **greenhouse effect**. Melting ice sheets and glaciers are one visible effect from a warmer planet. More water in the ocean is contributing to **sea-level rise** in coastal areas like Hallandale Beach.

### How will climate change impact my community in Hallandale Beach?

Sea-level rise increases sunny-day flooding & stronger storm surge which will negatively impact **infrastructure & property values** in Hallandale Beach. Increasing temperatures will also cause more **extreme heat days**, heat-related illnesses & aggravate chronic health problems. Young children, the elderly, & those without access to cool shelter are most at-risk.

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## What can I do to reduce my carbon footprint and increase climate awareness?

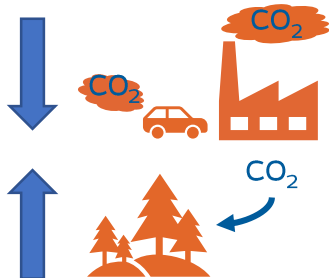


### What is a carbon footprint and how can I reduce mine?

Climate change is caused by rising **greenhouse gas** (GHG) emissions, like CO<sub>2</sub>, produced by every-day activities. Reducing your carbon footprint—the total amount of CO<sub>2</sub> you, your household, or your city creates—will help **mitigate** damage from climate change. To help reduce your emissions:

- Use bikes, carpools, or public transit to travel
- Avoid single-use plastic consumption
- Reduce food waste
- Eat local, in-season produce & less animal protein
- Install low-flow faucets, shower heads, & toilets
- Use energy efficient appliances, electronics, & lightbulbs
- Insulate & weatherize your home
- Landscape with native plants
- Conserve “green” spaces

Climate mitigation reduces GHGs in the atmosphere by reducing “sources” of emissions or by capturing more GHGs in “sinks” such as natural ecosystems.



Climate adaptation increases resiliency to current & future effects of climate change, such as building sea walls or pumps.



Transportation, electricity & food consumption contribute significantly to household GHG “footprints”

### What is Hallandale Beach doing to mitigate & adapt to climate change?

While climate change is a large problem, there are local impacts which require local action. The Hallandale Beach **Sustainability Action Plan** has the goal to build a resilient coastal community by the year 2040. Reducing energy, water & fuel use & improving recycling will help mitigate the city’s carbon footprint. Mapping areas vulnerable to flooding will help with efforts such as the installation of pumps & other structures to adapt to sea-level rise. Ultimately, these will all require outreach to residents to increase buy-in.

### How do I talk about climate change with others?

The easiest way to increase climate awareness is to talk about it on a regular basis with your family, friends, and co-workers. Understand your audience & connect over shared values. Every resident of Hallandale Beach wants to keep their community safe, equitable, and thriving for future generations!