

## IMPORTANT CLIMATE TERMS

# MITIGATION, RESILIENCE, SCIENCE



### 1 What is "Climate Mitigation"?

This refers to efforts to prevent and reduce the severity of climate change by reducing emissions of greenhouse gases into the atmosphere. For example, New Jersey is reducing emissions from electricity generation by switching from burning coal and natural gas to capturing solar energy and wind energy.

### 2 What is "Climate Resilience"?

This refers to our ability to design our ecosystems, communities, and built structures to better withstand the climate impacts we experience now and in the future. Climate impacts might include flooding from sea-level rise and storm events, and a resilience action might involve improving sewer systems to better address the resulting flooding.

### 3 What is "Climate Science"?

This is the study of the Earth's climate system and the causes and effects of climate change. This includes atmospheric processes, such as those related to solar energy, wind, and the ocean's absorption of heat. It includes weather patterns and long-term climate trends, such as melting of ice in the Arctic.

### 4 How do they work together?

Climate science provides the foundational information and data needed to implement meaningful actions, like reducing greenhouse gases to slow climate change (mitigation) and building stronger communities and ecosystems to handle its impacts (resilience). It's important to consider both approaches to avoid solutions that may be more harmful long term.





# NJ CLIMATE REPORTS & PLANS

## YOU SHOULD KNOW ABOUT

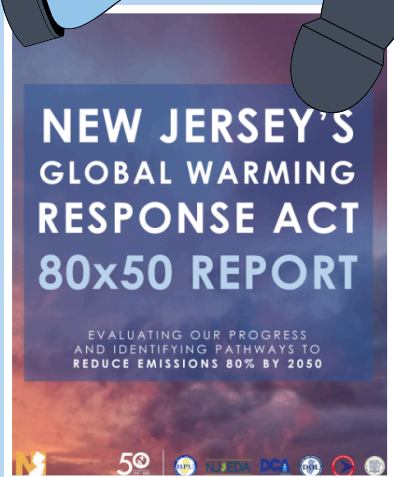


MITIGATION

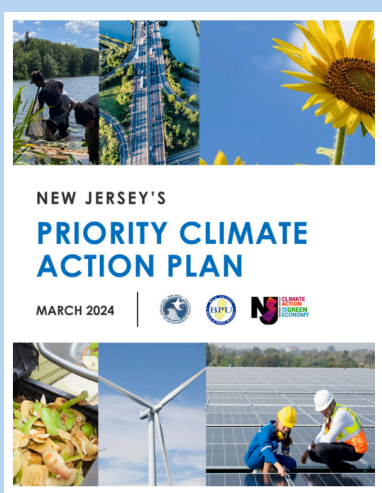
The 2019 Energy Master Plan outlines the state's strategy to transition to a clean, affordable, and reliable energy sources, focusing on reducing greenhouse gas emissions and promoting renewable energy. This plan is updated periodically, with the next version expected in early 2025.



The 80x50 report outlines New Jersey's strategy to reduce greenhouse gas emissions by 80% by 2050 to combat climate change. This plan is updated periodically, with the next version, known as the Comprehensive Climate Action Plan, expected in late 2025. This report builds off of the 2019 Energy Master Plan.



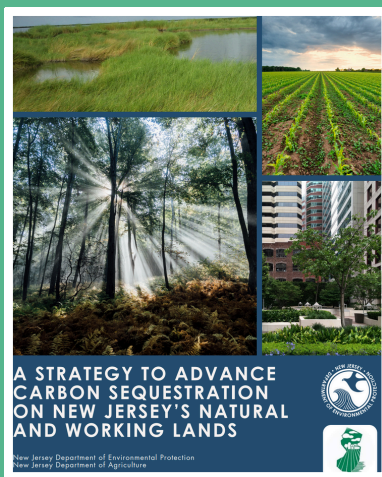
The Priority Climate Action Plan outlines near-term actions to reduce greenhouse gas emissions in New Jersey by 2030. This plan was created as part of The Environmental Protection Agency's Climate Pollution Reduction Grant Program.



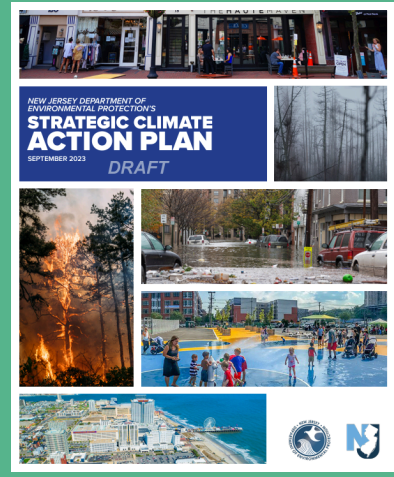
New Jersey's Regional Greenhouse Gas Initiative Funding Plan is a triennial plan to guide the investment of New Jersey's Regional Greenhouse Gas Initiative auction proceeds in emissions reductions, clean energy and environmental justice projects across the Garden State.



The Natural and Working Land Strategy outlines ways that New Jersey can mitigate climate change by protecting, restoring, and strategically managing New Jersey's natural and working lands.

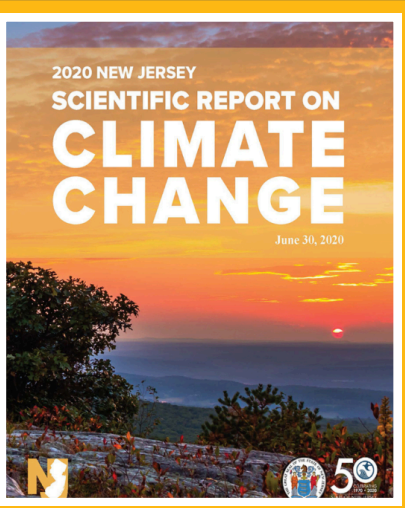


The Strategic Climate Action Plan seeks to advance the NJDEP's internal efforts to reduce and respond to climate change. It highlights actions across all Department programs and serves to promote greenhouse gas reduction and climate resilience.

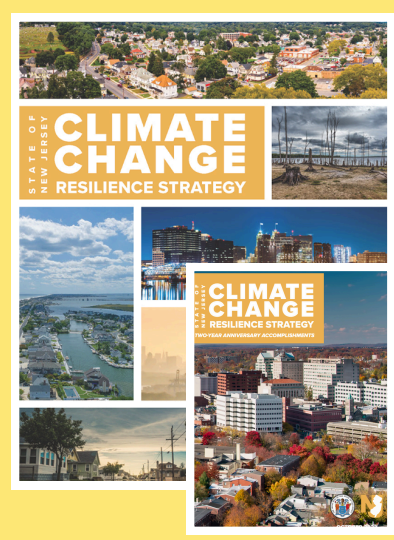


SCIENCE

New Jersey's Scientific Report on Climate Change presents research on the state's climate trends, projections, and potential impacts, informing strategies for mitigation and resilience.



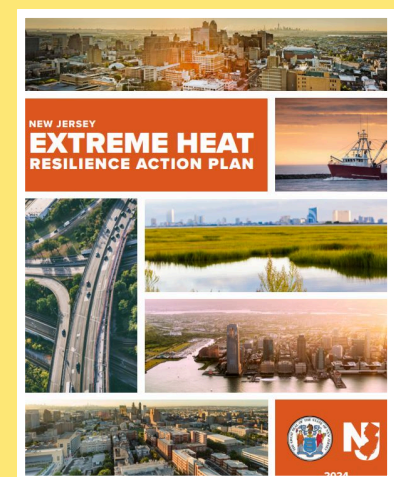
The Statewide Climate Change Resilience Strategy provides a policy framework for New Jersey state agencies to build climate resilience across six Priority Areas with a focus on climate justice. NJDEP also released the two-year anniversary accomplishments of the strategy in 2023, outlining progress made thus far.



The Climate Change Impacts on Human Health and Communities is an addendum to the 2020 New Jersey Scientific Report on Climate Change.



The Extreme Heat Resilience Action Plan builds on the Resilience Strategy to identify 135 action commitments by New Jersey state agencies to address the impacts of extreme heat across the state.



RESILIENCE