

## Mumbai Climate Action Plan

### Why in news?

The Brihanmumbai Municipal Corporation (BMC) is drafting a Mumbai Climate Action Plan (MCAP) to tackle climate challenges.

Click [here](#) to learn about India Cooling Action Plan

### What is the MCAP?

- It is a comprehensive roadmap outlining specific activities to reduce emissions and meet the goals of the Paris Agreement.
- It was drafted with the technical support from World Resources Institute India (WRI India).

### What is the need for a climate plan?

#### Weather events

- WRI study on Mumbai's vulnerability assessment says Mumbai will face **rise in temperature & extreme rain leading to floods**.
- Recent [IPCC report](#) predicts that Mumbai will face sea rise of 0.1m to 0.3m in next three decades.
- By 2050, Mumbai will see a 25% increase in the intensity of flash floods.
- This will affect 2-3 million people living within 1 km from the coastline.
- The plan also comes as part of the C40 compliance process, as Mumbai joined C40 Cities group in December 2020.

C40 is a network of the world's megacities committed to addressing climate change. There are 97 cities across the world connected in C40 Cities to collaborate and take measures on climate change.

#### GHG emissions

- Mumbai's greenhouse gas (GHG) emission was 34.3 million tonnes in 2019.
- Of this, 71% came from the energy sector which is mainly based on coal.
- 24% is from transport, and the 5% is from solid waste management.

95% of Mumbai's electricity is coal-based and needs to be shifted to renewable energy to bring down emissions.

### What are the signs of climate change impact in Mumbai so far?

- Steady rise in air temperature over the past 50 years.

- Uneven increase in night time temperatures.
- Faster warming of the winter months compared to the summer.
- The number of extreme caution days is increasing. e.g Mumbai sees 174 caution days and 187 extreme caution days per year.
  - Caution days - Temperature is 26-32°C.
  - Extreme caution day - Temperature is 32-42°C.
  - Temperatures above 35°C can impact human health and productivity.
- Since 2007, a constant rise in temperature mainly due to concretization, lack of green cover and housing density in Mumbai.
- A substantial increase in intense rainfall and storm events in the last 5 years, resulting in frequent water logging and flooding.

### What will the MCAP address?

## PLAN TO BE **READY BY NOVEMBER**

<p><b>The Mumbai Climate Action Plan will focus on six action areas:</b></p> <ol style="list-style-type: none"> <li><b>1</b> Sustainable waste mgmt</li> <li><b>2</b> Urban greening, biodiversity</li> <li><b>3</b> Flooding, water resource mgmt</li> <li><b>4</b> Bldg energy efficiency</li> <li><b>5</b> Air quality</li> <li><b>6</b> Sustainable mobility</li> </ol>	
<p>➤ Expected to be ready by November 2021, said Lubaina Rangwala, associate director, WRI Ross Center for Sustainable Cities</p>	<p>➤ Citizens can send suggestions to the website (<a href="https://mcap.mcg.gov.in/about/">https://mcap.mcg.gov.in/about/</a>)</p>

- Reduction of GHG emission by sectors.
- Consumption patterns, for the near term (2030), medium term (2040) and long-term (2050).
- Vulnerability assessment.
- Increasing community resilience capacities in vulnerable neighborhoods.
- Building climate resilient infrastructure.
- Nurturing robust natural systems to better adapt to climate risks.

Source: The Indian Express