

WHAT IS THE PROBLEM?

Large industrial facilities in MA emitted nearly **10.5 million metric tons of CO2** into the atmosphere (2022)

- 5% of total GHG emissions in MA
- Emissions came from power plants, waste management facilities, and petroleum & natural gas system leaks

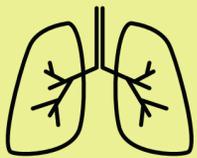
Clean Energy Employment Sector Statistics:
Central Massachusetts 2020-2021

Label	Employment (# of people)	Businesses (# of businesses)
2020 Report	18,344	1,111
2021 Report	16,370	1,099
2020-2021 Report Change	-10.8%	-1.1%
2021 % of MA Clean Energy Total	16.2%	15.5%
2021 % of Total Jobs/Businesses in Central MA	5.0%	4.1%

Source: MA 2022 Clean Energy & Climate Plan

WHAT ARE COMMON EFFECTS?

HEALTH IMPACTS



- Vulnerable neighborhoods can be disproportionately exposed to **smog**
 - Poor air quality can lead to higher rates of asthma, cancer & cardiovascular disease

DEPLETION OF RAW MATERIALS



- Permanent impacts on ecosystems & biodiversity
 - i.e. excessive logging & clear-cutting reduces forest cover and natural carbon sequestration systems

ECOSYSTEM IMPACTS



- Hazardous waste byproducts decrease soil and water quality
- Risk of alteration of aquatic **habitat structures** due to debris build-up in the environment

Industrial buildings in Worcester County are emitting...

13,594 Metric Tons of Carbon Dioxide Annually

According to the CMRPC's Priority Climate Action Plan (PCAP) GHG Inventory

GENERAL GOALS TO CONSIDER FOR THE INDUSTRY SECTOR

1

UPGRADE INDUSTRIAL FACILITIES USING ENERGY EFFICIENT INDUSTRIAL TECHNOLOGIES

2

CHANGE INDUSTRY REGULATIONS & PROMOTE PROGRAMS TO PRODUCE GOODS FROM RECYCLED/RENEWABLE MATERIALS

3

RAISE AWARENESS ABOUT/ INCREASE TRAINING FOR PREVENTION OF EMISSION LEAKS FROM INDUSTRIAL EQUIPMENT

4

SCALE UP FUEL SWITCHING EFFORTS THAT RESULT IN LESS CO2 EMISSIONS