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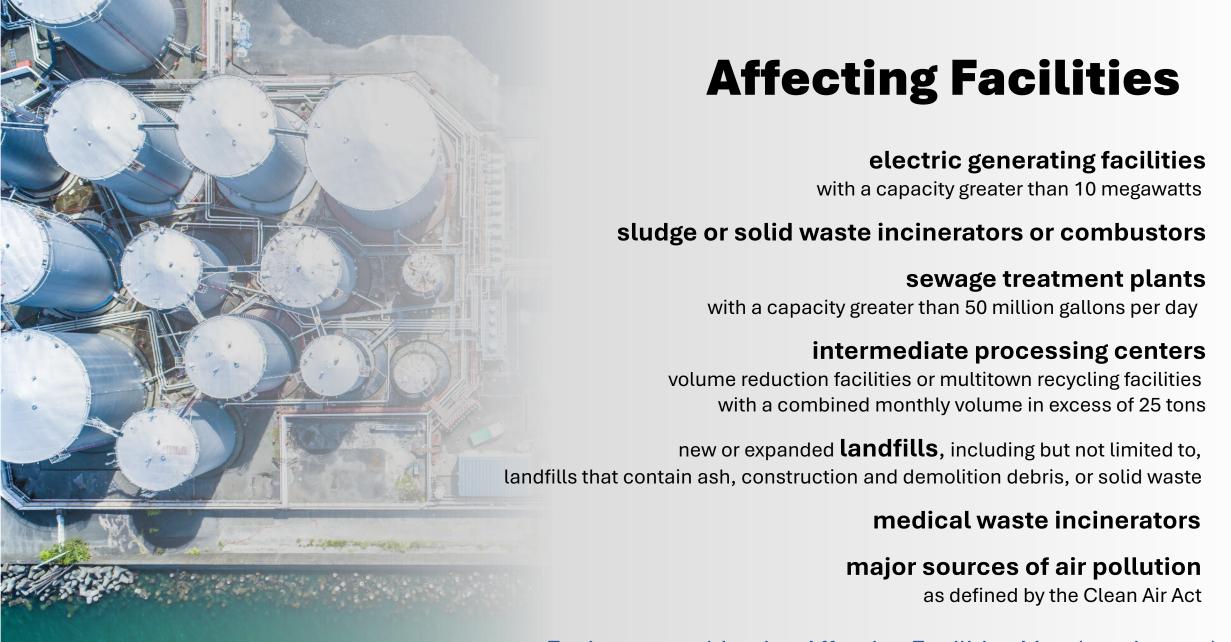
# **Environmental Justice Communities**

1. census block groups, for which 30% or more of the population consists of low-income persons who are not institutionalized and have an income below 200% of the federal poverty level

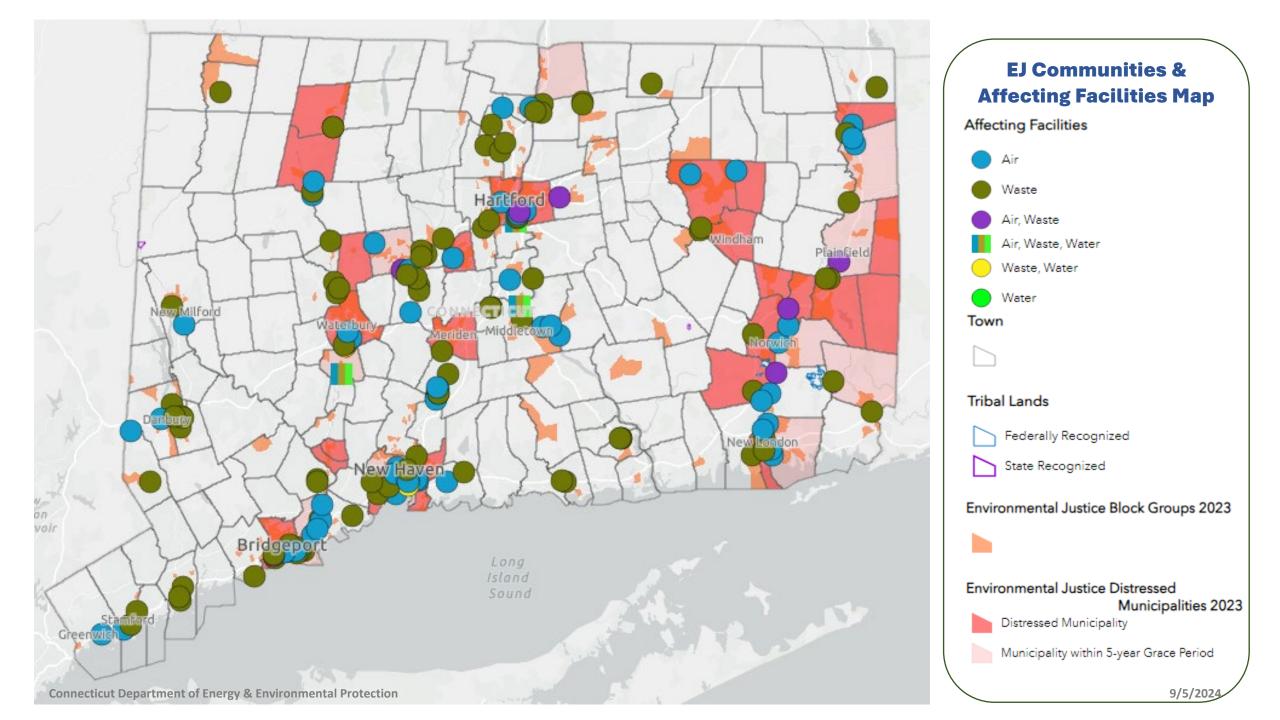
# 2. distressed municipalities

Distressed Municipalities (ct.gov)





Environmental Justice Affecting Facilities Map (arcgis.com)





# Cumulative Impact Assessment Regulations (in process)

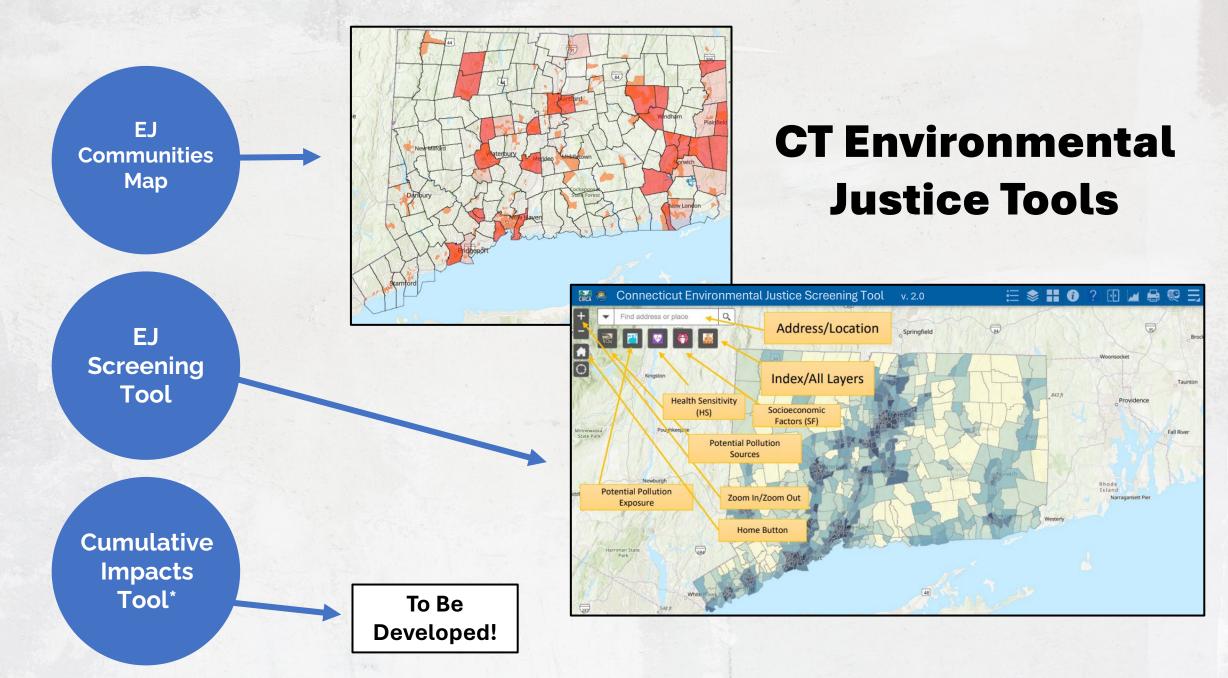
**Identification** & **measurement** of public health stressors' relative impacts

**Tools** for stakeholder industries and sectors

**Standards** for placing conditions on permits or denying permits

# Sample Cumulative Impacts Stressor Indicators

Potential Pollution Sources	Potential Pollution Exposure	Socioeconomic Factors	Health Sensitivity
Incinerators	Ozone	Poverty Levels	Asthma
Landfills	Particulate Matter 2.5	Unemployment	Coronary Heart Disease
Recycling	Major Sources of Air Pollution	Median Income	Diabetes
Significant Environmental Hazards	Minor Sources of Air Pollution	Population Age < 5	Low Birthweight
	Traffic Density	Population Age > 65	



# Request for Proposals

RFP Solicitation Number: DEEP07302024CM

To create a tool to help permit applicants measure the relative impact of environmental and public health stressors across communities—so called "cumulative impacts"

#### **Timeline**

RFP Released

Deadline for Questions

**Answers Released** 

**Proposals Due** 

**Proposer Selected** 

July 30, 2024

August 13, 2024

August 27, 2024

**September 26, 2024** 

Target date: October 25, 2024

# Colorado

#### regulations

#### **FACILITIES**

Sources of "Affected Pollutants" determined to have the potential to cause or contribute to significant health or environmental impacts, including VOC, Oxides of Nitrogen, Hazardous Air Pollutants (e.g., benzene, toluene, ethylbenzene, xylene), PM 2.5; regulations set threshold

#### **CUMULATIVE IMPACT ANALYSIS**

Any census block group that is in the 80<sup>th</sup> percentile or higher for the indicators is a "Cumulatively Impacted Community"

#### HIGHER STANDARDS IN CUMULATIVELY IMPACTED COMMUNITIES

Must apply Reasonably Available Control Technology to emission units Must design and implement source-specific monitoring plan (except for VOC)

Must continue pre-production and early-production operation monitoring for the duration of facility operations

#### **INDICATORS**

Air Toxics

Asthma

Cancer

Diabetes

**Diesel Particulate Matter** 

Disability

Linguistic Isolation

**Drinking Water** Low Birth Weight Drought

Mental Health

Education

Mining Noise

**Extreme Heat Days** 

Fine Particulate Matter (PM2.5) NPL (Superfund) Sites

Floodplains

Oil and Gas

Heart Disease

Older (>64 Years Old) Other Air Pollutants

**Housing Cost Burdened** 

Ozone

Income

People of Color

Lead Life Expectancy

Risk Management Plan Sites

Surface Water

Traffic

Waste Facilities

Water Discharge

Wildfires

Young (<5 Years Old)

## **Massachusetts**

law; regulations

#### **FACILITIES**

Any new or modified facility or emission unit that may emit air contaminants to the ambient air

#### **GEOGRAPHIC RADIUS**

Within an EJ community

Within 1 mile of an EJ population if the facility or emission unit will not be a major source of air pollution

Within 5 miles of an environmental justice population if the facility or emission unit may be a major source of air pollution

#### **CUMULATIVE IMPACT ANALYSIS**

Air quality dispersion modeling

Cumulative cancer risk calculated does not exceed the cumulative cancer risk limit (1 in 10,000,000)

Cumulative non-cancer risk calculated does not exceed cumulative non-cancer risk limit (hazard index = 1)

#### **INDICATORS**

Air Toxics Cancer Risk Air Toxics Respiratory Hazard Index Airports

Asthma prevalence in schools

Childcare facilities

Chronic obstructive pulmonary disease

Coronary heart disease

Diesel particulate matter

Elevated blood lead levels prevalence

English language isolation household

Facilities under the EPA Toxics Release Inventory

Facilities under the Toxics Use Reduction Act

Facilities with air permits

Fine Particulate Matter (PM2.5)

Freight rail yards

Hazardous waste treatment, storage and disposal

Impervious Surface

Income

Large quantity hazardous waste generators

Older (>65 years old) Long-term care residences

Ozone summer seasonal average Low birth weight

Port facilities Minority population percent

Premature deaths

**Prisons** 

**Public housing** 

Schools (k-12)

Solid waste diversion and disposal

Traffic proximity

Wastewater treatment plants

Young (<5 years old)

9/5/2024

# **New Jersey**

law; regulations

#### **FACILITIES**

Landfills

Major sources of air pollution
Resource recovery facilities or
incinerators
Sludge processing facilities
Sewage treatment plants
Transfer stations or solid waste facilities
Recycling facilities
Scrap metal facilities

# PERMIT CONDITIONS & DENIALS

Mandatory denial of new facilities if cumulative impact, unless compelling public interest

#### **GEOGRAPHIC POINT OF COMPARISON**

lower value of the state or county's 50th percentile, calculate excluding the values of other overburdened facilities

#### **CONTROL MEASURES**

Medical waste incinerators

All feasible measures to avoid adding to stressors → Onsite measures to minimize → Offsite measures within the EJ community → Feasible offsite measures to provide a net environmental benefit to EJ community

#### **INDICATORS**

Air Toxics Cancer Risk Air Toxics Non-Cancer Risk Combined Sewer Overflows **Drinking Water Well Testing** Education **Emergency Planning Sites** Fine Particulate Matter (PM2.5) Flooding (Land Use Cover) **Ground Water Classification Exception Areas** Ground-Level Ozone Impervious Surface **Known Contaminated Sites** Lack of Recreational Open Space Lack of Tree Canopy NJ Pollutant Discharge Elimination System Sites Permitted Air Sites Potential Lead Exposure Railways Scrap Metal Facilities Soil Contamination Deed Restrictions Solid Waste Facilities Surface Water Pollution Traffic – Cars, Light- Medium- and Heavy-Duty Trucks Unemployment

## Connecticut

2023 law

#### **FACILITIES**

electric generating facilities
sludge or solid waste incinerators or
combustors
sewage treatment plants
intermediate processing centers
landfills
medical waste incinerators
major sources of air pollution

#### **GEOGRAPHIC POINT OF COMPARISON**

(for example, county, state)

#### **CONTROL MEASURES**

(may come in part from Clean Water Act, Clean Air Act laws)

# PERMIT CONDITIONS & DENIALS

#### **Socioeconomic**

Disability **Educational Attainment Elderly Population Energy Burden Food Security** Health Insurance **Housing Burden** Linguistic Isolation Median Income Mobile Home Multi-Unit Home Poverty/Low Income Race/People of Color Rent-Ownership Ratio Single Parent Tree Canopy Unemployment Young Population

#### **Health Sensitivity**

Asthma E.D. Visits
Childhood Elevated Lead Levels
COPD E.D. Visits
Coronary Heart Disease
Depression
Diabetes
Low Birth Weight Rate Infants
Mental Health

#### **POSSIBLE INDICATORS**

#### **Pollution Exposure**

Diesel PM Emissions
EPA Cancer Risk
EPA Respiratory Hazard Index
Facilities Releasing Toxins
Minor Facilities with Permit-Limited
Emissions Potential
Noise
Ozone

Particulate Matter 2.5
Permitted Major Air Pollution Sources
Permitted Minor Air Pollution Source
Traffic Density
Urban Heat Index

#### **Pollution Sources**

Brownfields
Facilities Managing Chemicals
Impervious Area
Incinerators/Resource Recovery
Facilities
Landfills
Lead Paint Risk in Housing
Municipal Transfer Station
Potentially Contaminated Sites
Recycling Processing Facilities
Proximity to Superfund Site
Significant Environmental Hazards
Underground Storage Tanks
Wastewater Discharge

## Connecticut

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#### Socioeconomic

Disability **Educational Attainment Elderly Population Energy Burden** Food Security Health Insurance Housing Burden Linguistic Isolation Median Income Mobile Home Multi-Unit Home Poverty/Low Income Race/People of Color Rent-Ownership Ratio Single Parent Tree Canopy Unemployment **Young Population** 

#### **Health Sensitivity**

Asthma E.D. Visits Childhood Elevated Lead Levels COPD E.D. Visits Coronary Heart Disease Depression Diabetes Low Birth Weight Rate Infants Mental Health

#### **POSSIBLE INDICATORS**

#### **Pollution Exposure**

**Diesel PM Emissions EPA Cancer Risk EPA Respiratory Hazard Index** Facilities Releasing Toxins Minor Facilities with Permit-Limited **Emissions Potential** Noise

> Ozone Particulate Matter 2.5

Permitted Major Air Pollution Sources Permitted Minor Air Pollution Source **Traffic Density Urban Heat Index** 

#### **Pollution Sources**

Brownfields Facilities Managing Chemicals Impervious Area Incinerators/Resource Recovery **Facilities** Landfills Lead Paint Risk in Housing **Municipal Transfer Station Potentially Contaminated Sites Recycling Processing Facilities** Proximity to Superfund Site Significant Environmental Hazards **Underground Storage Tanks** Wastewater Discharge

# Connecticut

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#### **Socioeconomic**

- Disability
- Educational Attainment
- Elderly Population
- Energy Burden
- Food Security
- Health Insurance
- Housing Burden
- Linguistic Isolation
- Median Income
- Mobile Home
- Multi-Unit Home
- Poverty/Low Income
- Race/People of Color
- Rent-Ownership Ratio
- Single Parent
- Tree Canopy
- Unemployment
- Young Population

#### **Health Sensitivity**

- Asthma E.D. Visits
- Childhood Elevated Lead Levels
- COPD E.D. Visits
- Coronary Heart

#### Disease

- Depression
- Diabetes
- Low Birth Weight Rate Infants
- Mental Health

#### **Pollution Exposure**

- Diesel PM Emissions
- EPA Cancer Risk
- EPA Respiratory Hazard Index

**POSSIBLE INDICATORS** 

- Facilities Releasing Toxins
- Minor Facilities with
   Permit-Limited Emissions
   Potential
- Noise
- Ozone
- Particulate Matter 2.5
- Permitted Major Air
   Pollution Sources
- Permitted Minor Air Pollution Source
- Traffic Density
- Urban Heat Index

#### **Pollution Sources**

- Brownfields
- Facilities Managing Chemicals
- Impervious Area
- Incinerators/Resource Recovery Facilities
- Landfills
- Lead Paint Risk in Housing
- Municipal Transfer Station
- Potentially Contaminated Sites
- Recycling Processing Facilities
- Proximity to Superfund Site
- Significant Environmental Hazards
- Underground Storage Tanks
- Wastewater Discharge

# We want to hear from you

## Contact us:

deep.EJrulemaking@ct.gov



Scan or click to receive email updates

### Join us at upcoming workshops!

EJ Rulemaking Kickoff Meeting September 10, 2024; 5:30-7:30pm

Register here

Date	Event Name		
Dec 2024	EJ Public Participation Plan and Report		
Mar 2025	Identification and Measurement of Environmental and Health Stressors		
June 2025	Geographic Points of Comparison		
Aug 2025	Public Health and Environmental Stressor Tool		
Dec 2025	Cumulative Impact Assessment and Standards for Denying and Placing Conditions on Permits		
Early 2026	Final Comprehensive Summary and Draft Language		

