

Asthma, Clean Air, Climate: Climate and Equitable Job Act, etc.

Kick Asthma Policy Forum:
Climate Change and Respiratory Health
Brian Urbaszewski
Feb. 4, 2021



Who are we?



Respiratory Health Association has been a local public health leader since 1906. Today we address asthma, COPD, lung cancer, tobacco control and air quality with a comprehensive approach.

Our mission is to prevent lung disease, promote clean air and help people live better through education, research, and policy change.



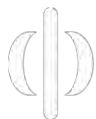
The Illinois Clean Jobs Coalition (ICJC) is made up of more than 200 climate groups, healthcare professionals, environmental justice champions, businesses, community leaders, labor unions, consumer advocates, faith-based and student organizations.

The diverse coalition spent more than three years organizing and holding more than 100 “Listen. Lead. Share.” events to gather feedback and policy ideas from residents across Illinois. The work centered around a simple but urgent rallying cry: CEJA can’t wait.

THE CLIMATE AND EQUITABLE JOBS ACT



Illinois just passed the nation's most equitable and comprehensive climate action legislation. After three years of advocacy and decades of building power for people and the environment, Illinois finally put the needs of people and the planet over the demands of fossil fuel interests.



THE CLIMATE AND EQUITABLE JOBS ACT

A COMPREHENSIVE APPROACH



Jobs & Economic Justice



Renewable Energy



Inclusive Financing



Energy Efficiency



Carbon-Free Power



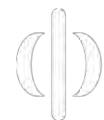
Electric Transportation



Just Transition for Fossil Fuel
Communities



Utility Accountability, Grid
Planning, and Low-income Relief



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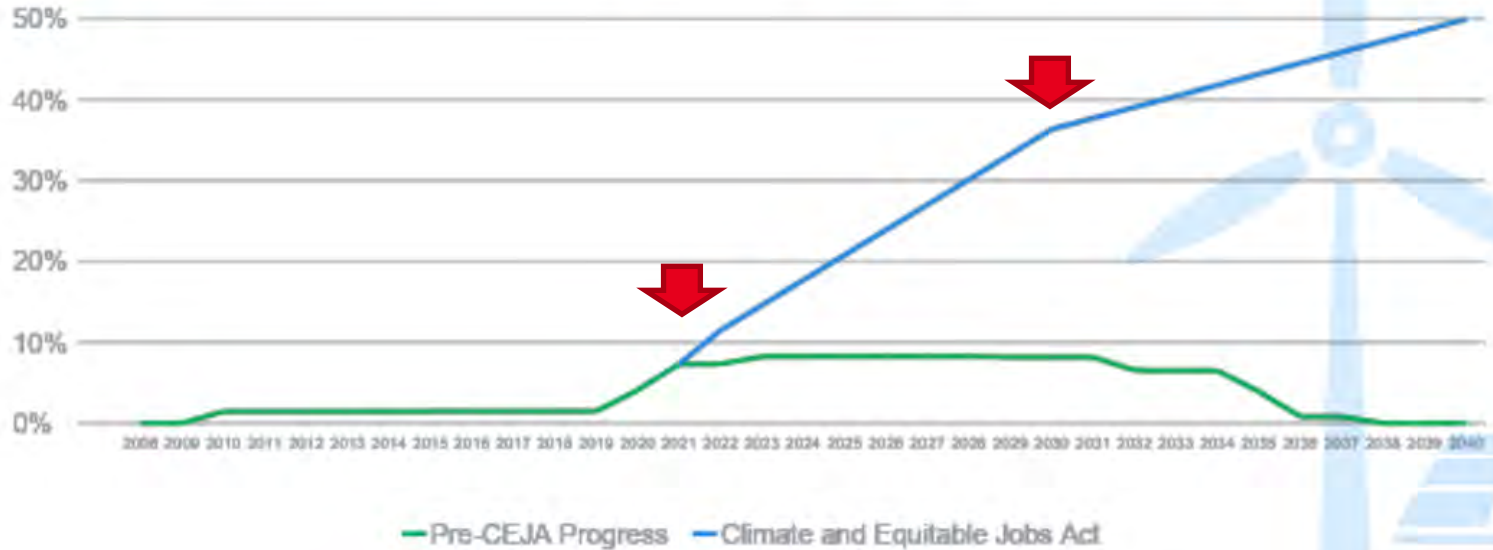
Fixes the “Solar Cliff,” and Increases Renewable Energy to **50%** of electricity in Illinois by 2040.



14,300 MW of New Solar Power by 2030



4,500 MW of New Wind Power by 2030



Increased to \$580m/year (2X+)

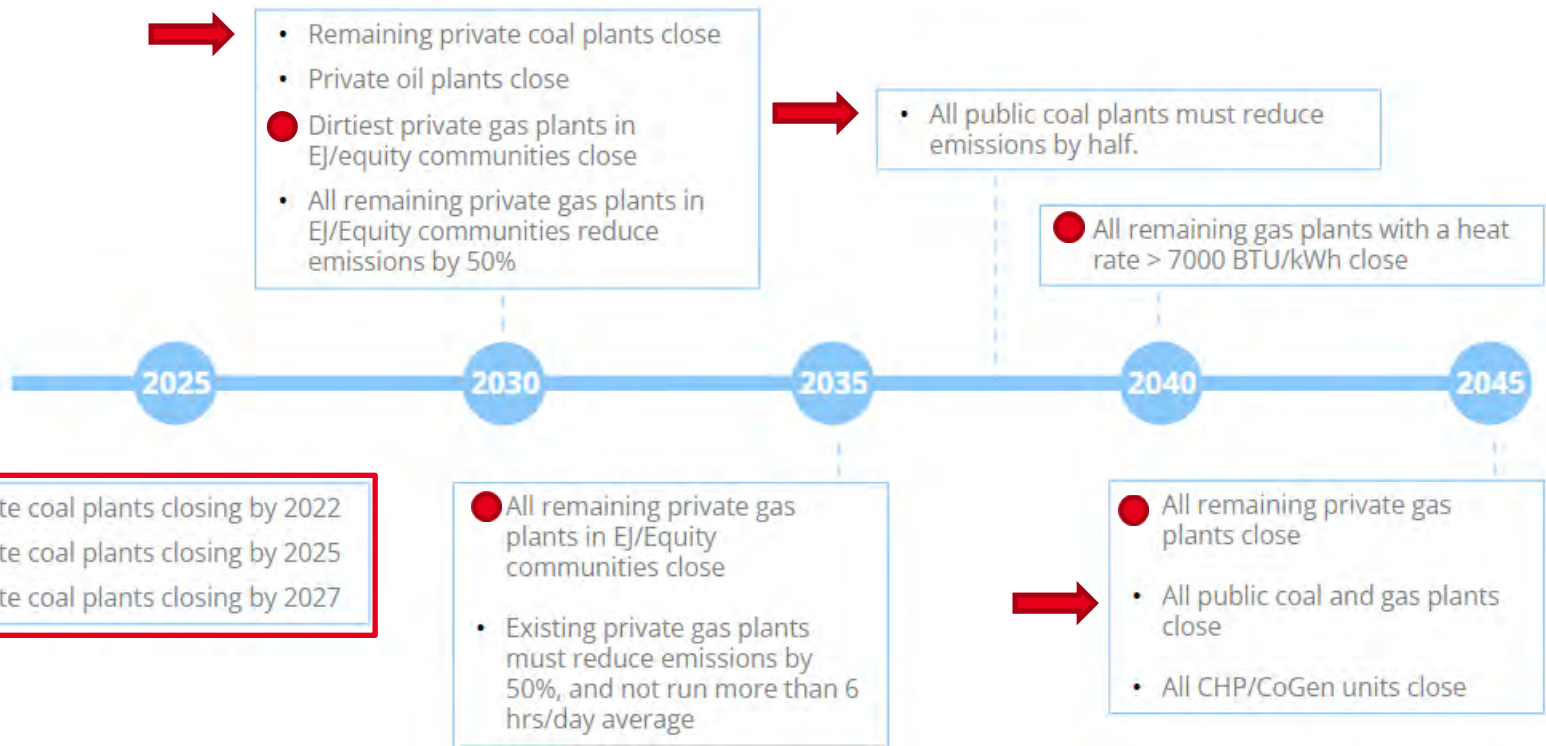
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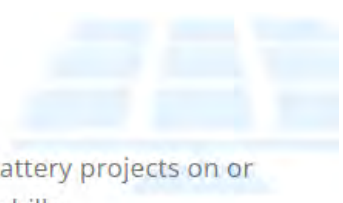
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Sets a hard timeline to close polluting plants





Coal to Solar and Energy Storage



The Climate and Equitable Jobs creates a Coal to Solar and Energy Storage initiative to develop solar and battery projects on or adjacent to property previously used as a coal plant. Funded by a charge on ComEd and Ameren customer bills.

solar

\$18.8m/yr

600 MW

- Solar projects located on or adjacent to property previously used as a coal plant.

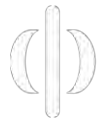


energy storage

\$28 m/yr

255 MW

- Energy storage projects located on or adjacent to property previously used as a coal plant.



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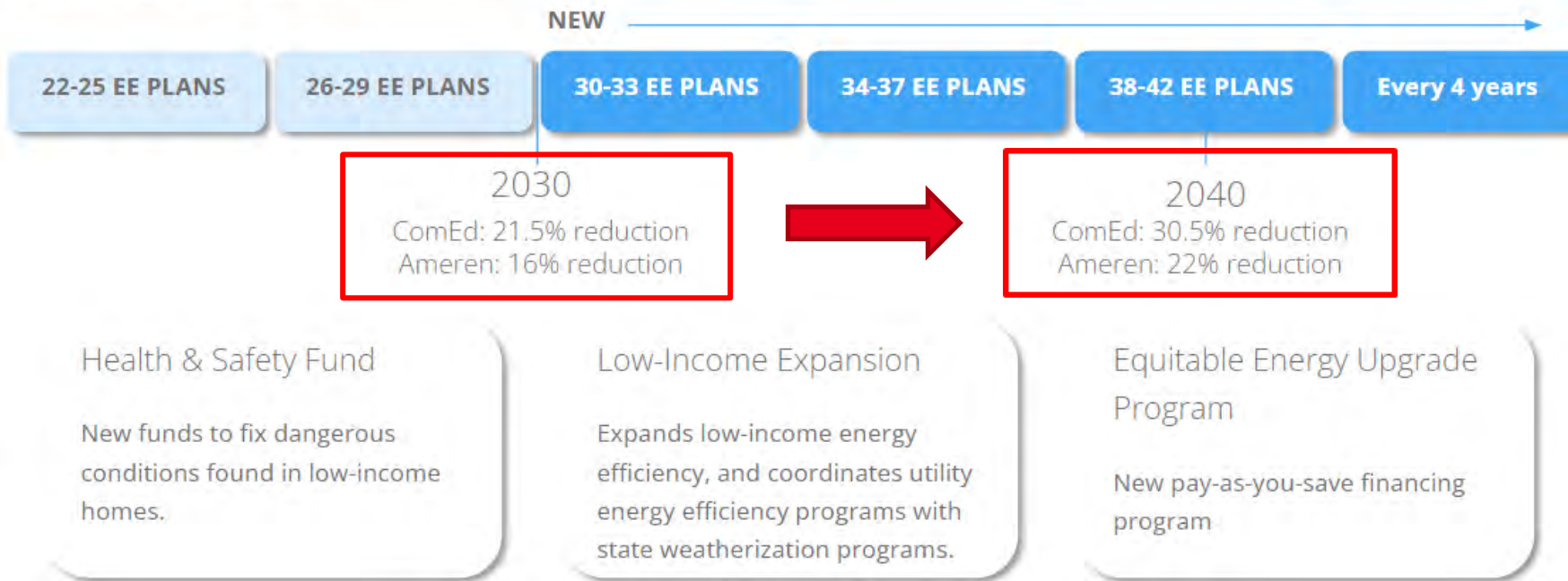


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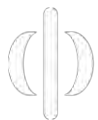


Expands Energy Efficiency

The Climate and Equity Jobs Act extends energy efficiency programs past 2030, expands goals, and makes important changes to support low-income homes.



EE reduces electric demand, lowers emissions, drives prices lower



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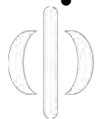
Air Pollution Challenges:

Chicago Area:

- Greater metro area includes 16 counties and over 9.7 million people.
- Main freight rail hub of North America (rail to truck)
- Economy, transportation, and industry are massive

Air Pollution History?

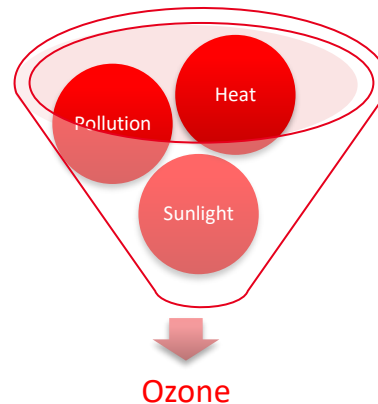
- Has not met U.S. EPA ozone health standards since 1970's
- In March-May of 2020, as pollution was going down in other major cities, in the Chicago area “average daily soot concentrations recorded by the sensor [were] 29% higher than levels of pollution detected during the previous two months.”
- Regional air quality challenges still ozone and PM2.5
- USEPA gearing up to tighten both NAAQS over next two years



Ground-level Ozone (Smog)



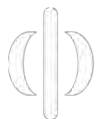
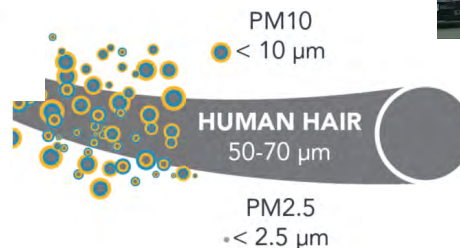
Organic chemical fumes and gases from burning fuels cook together in sunlight to make ozone.



Fine Particulate Matter (Soot)



Fine particulate matter includes tiny droplets and solids from vehicle exhaust, power plants, and smoke.



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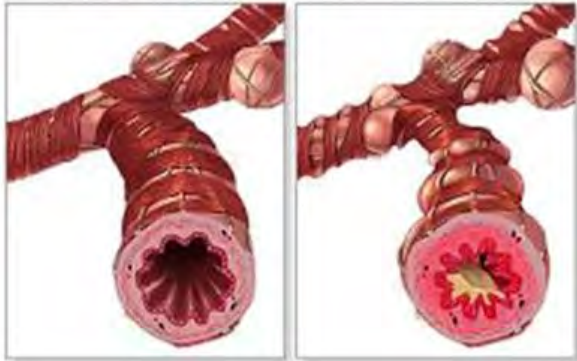
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Ozone and PM2.5

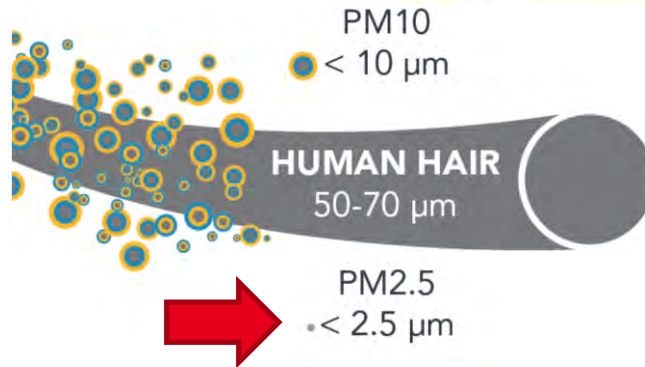
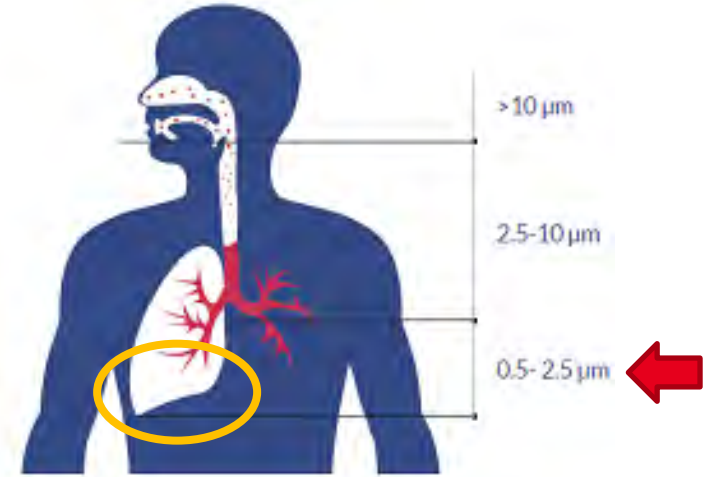


Normal bronchiole

Asthmatic bronchiole



ADAM



Health Effects of Ozone/PM2.5?

- Difficult breathing
- Asthma attacks
- ER visits
- Hospitalizations
- Heart attacks
- Premature deaths
- Lost days from work/school
- More medication
- More MD office visits



Asthma in Illinois

A Snapshot of Illinois Asthma Data:

- 860,000 adults currently have asthma
- 160,000 children currently have asthma
- Over 7,500 hospitalizations with asthma as a primary diagnosis in 2019
- 64,000 emergency department visits with asthma as the primary diagnosis in 2019
- 137 asthma deaths in 2018

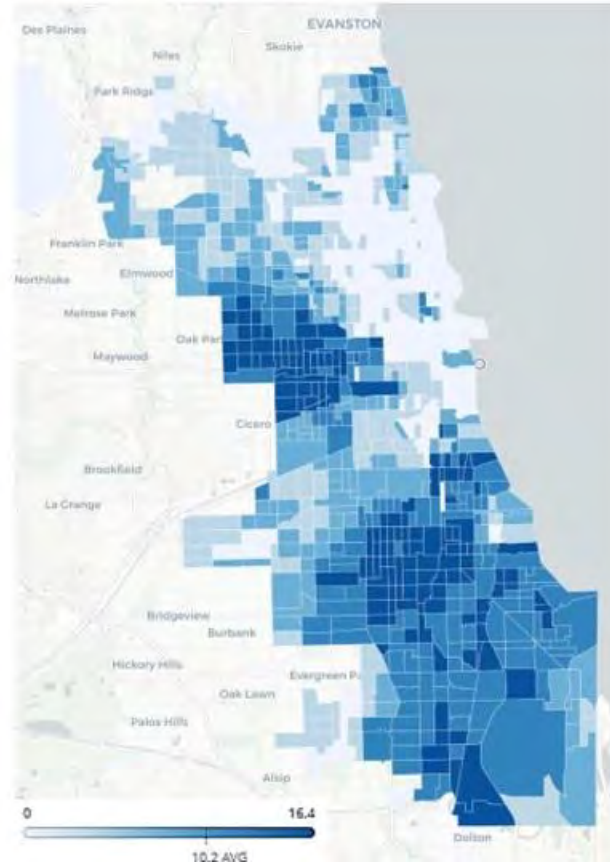


BUT....

Asthma in Chicago

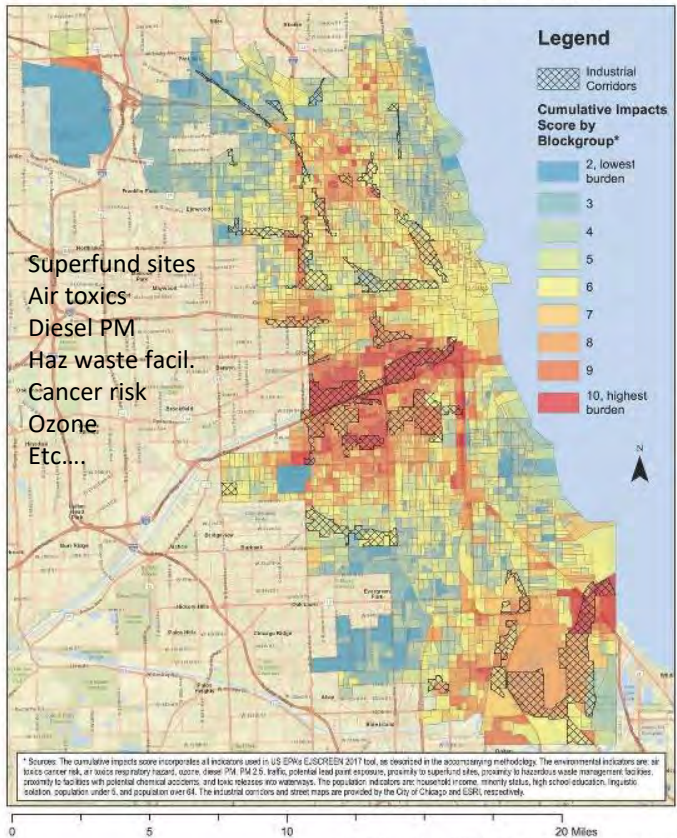
- 204,000 adults
- Percentage of adults diagnosed with asthma?
 - Black 13.9%
 - White 8.4%
- Black children > 4x more likely to go to ER for asthma compared to white children
- Hispanic children 70% more likely to go to ER for asthma compared to white children
- Higher incomes associated with lower asthma prevalence.

Asthma Prevalence, Chicago



NRDC 2018

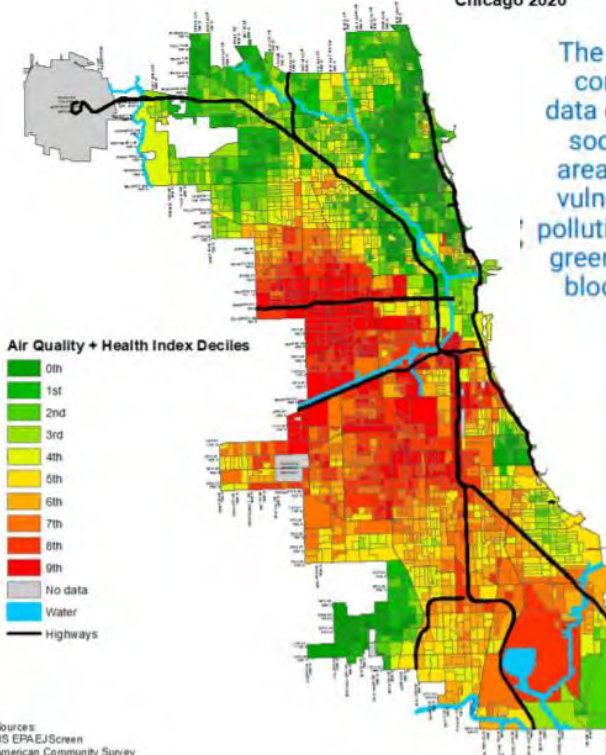
Cumulative Burden of Environmental Exposures & Population Vulnerability in Chicago



Natural Resources Defense Council (NRDC) Map, version 9/4/2018

City of Chicago 2020

Air Quality and Health Index, Chicago 2020



Sources:
US EPA EJScreen
American Community Survey
US CDC 500 Cities
IDPH Vital Statistics
Various years combined, 2011-2018

Created by Office of Epidemiology,
Chicago Department of Public Health, January 2020

The Air Quality + Health Index combines community-level data on air pollution, health, and social factors to identify the areas in our city that are most vulnerable to the effects of air pollution. Census block groups in green are less vulnerable, while block groups in red are more vulnerable.

THE CLIMATE AND EQUITABLE JOBS ACT

DEFINING EQUITY ELIGIBLE COMMUNITIES

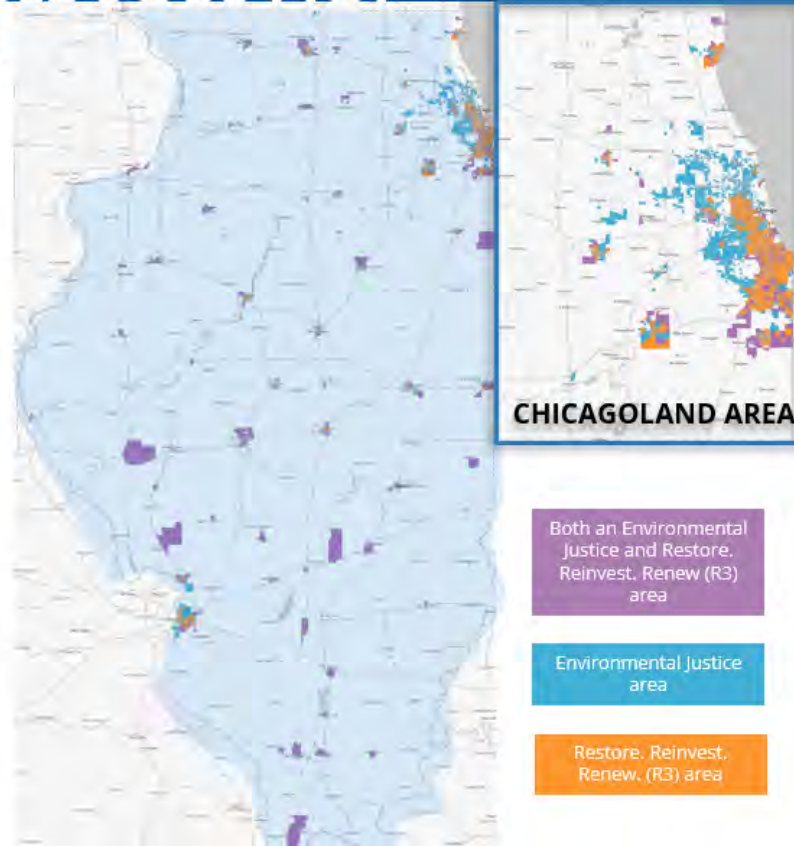
Throughout the new law, the Climate and Equitable Jobs Act Equity targets consideration and explicit benefits to newly-defined Equity Eligible Persons and Equity Eligible Communities which are, among other criteria, residents of Environmental Justice or R3 areas.

Environmental Justice Communities

Environmental Justice Communities are communities that have been identified through a calculation utilizing the U.S. EPA tool EJ Screen and a demonstrated higher risk of exposure to pollution based on environmental and socioeconomic factors.

Restore. Reinvest. Renew. (R3) Areas

R3 areas are communities that have been harmed by violence, excessive incarceration, and economic disinvestment, as originally defined for eligibility for R3 grants under Illinois' cannabis law.



THE CLIMATE AND EQUITABLE JOBS ACT



WORKFORCE TRAINING PROGRAMS

CLEAN JOBS WORKFORCE HUBS

If you want to get trained for clean energy careers: 13 workforce hubs across the state, run by community-based organizations, to provide clean jobs training and a career pipeline for equity eligible individuals (Managed by DCEO, up to \$21 million/yr).

ILLINOIS CLIMATE WORKS PREAPPRENTICESHIP PROGRAM

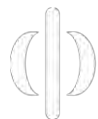
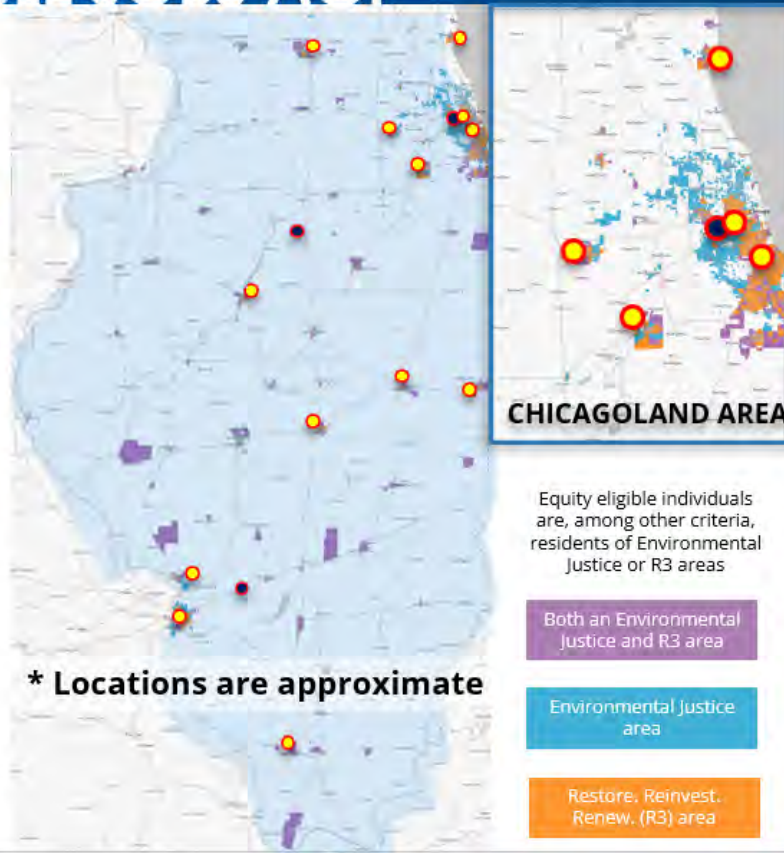
If you want to enter union training programs: Trains equity eligible individuals for careers in clean energy sector construction and building trades (Managed by DCEO, up to \$10 million/yr).

RETURNING RESIDENTS CLEAN JOBS TRAINING PROGRAM

Trains soon-to-be-released people who are incarcerated for jobs in the solar and efficiency sectors (Managed by IDOC, up to \$6 million/yr).

ENERGY TRANSITION BARRIER REDUCTION PROGRAM

Provides resources for publicity, placement and retention to break down barriers to participation in training programs (Managed by DCEO, up to \$21M/yr). Additionally, **Energy Transition Navigators** will provide education, outreach, and recruitment for participation in workforce development programs (Managed by DCEO, up to \$6M/yr).



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THE CLIMATE AND EQUITABLE JOBS ACT



CONTRACTOR DEVELOPMENT

CLEAN ENERGY CONTRACTOR INCUBATOR PROGRAM

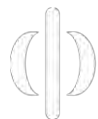
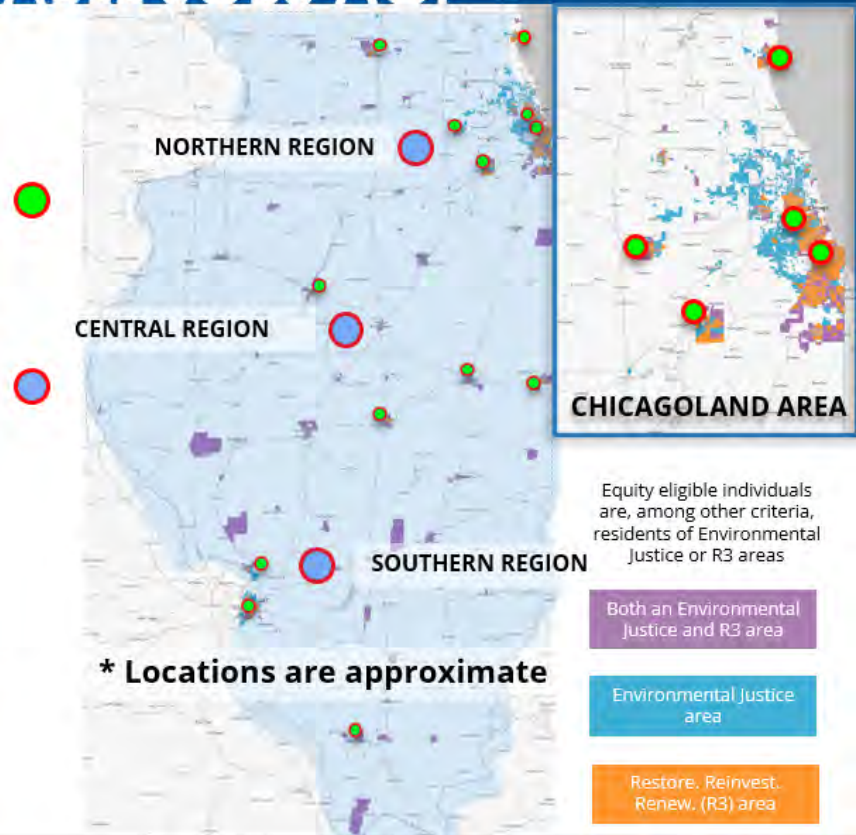
If you want to subcontract on clean energy projects: 13 contractor incubators across the state to provide training, mentorship, and recruitment opportunities for small clean energy businesses and contractors (Managed by DCEO, up to \$21M /yr).

CLEAN ENERGY PRIMES CONTRACTOR ACCELERATOR

If you want to be a prime contractor on clean energy projects: A program for contractors seeking to expand their capacity and fill the role of prime contractor on clean energy projects. The Accelerator offers a structured five-year program with mentorship, operation support grants, business coaching, and assistance applying for certifications, procurement programs, and preparing bids. Cohorts are accepted every 18 months. The program will be operated in three regions: Northern Illinois, Central Illinois, and Southern Illinois (Managed by DCEO, up to \$9M/yr).

PREVAILING WAGE SUPPORT

To address administrative barriers for small clean energy businesses, the Department of Labor will assist contractors with prevailing wage payroll administrative burdens.



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THE CLIMATE AND EQUITABLE JOBS ACT

BY THE NUMBERS

\$82M_{YR}

Investment in workforce development and contractor equity programs

\$41M_{YR}

Investment per year in former fossil fuel communities and workers

\$380M_{YR}

Investment in new renewable energy

100%

Carbon-free power sector by 2045, with interim steps

50%

Renewable energy by 2040

1,000,000

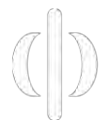
Electric vehicles in Illinois by 2030



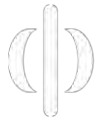
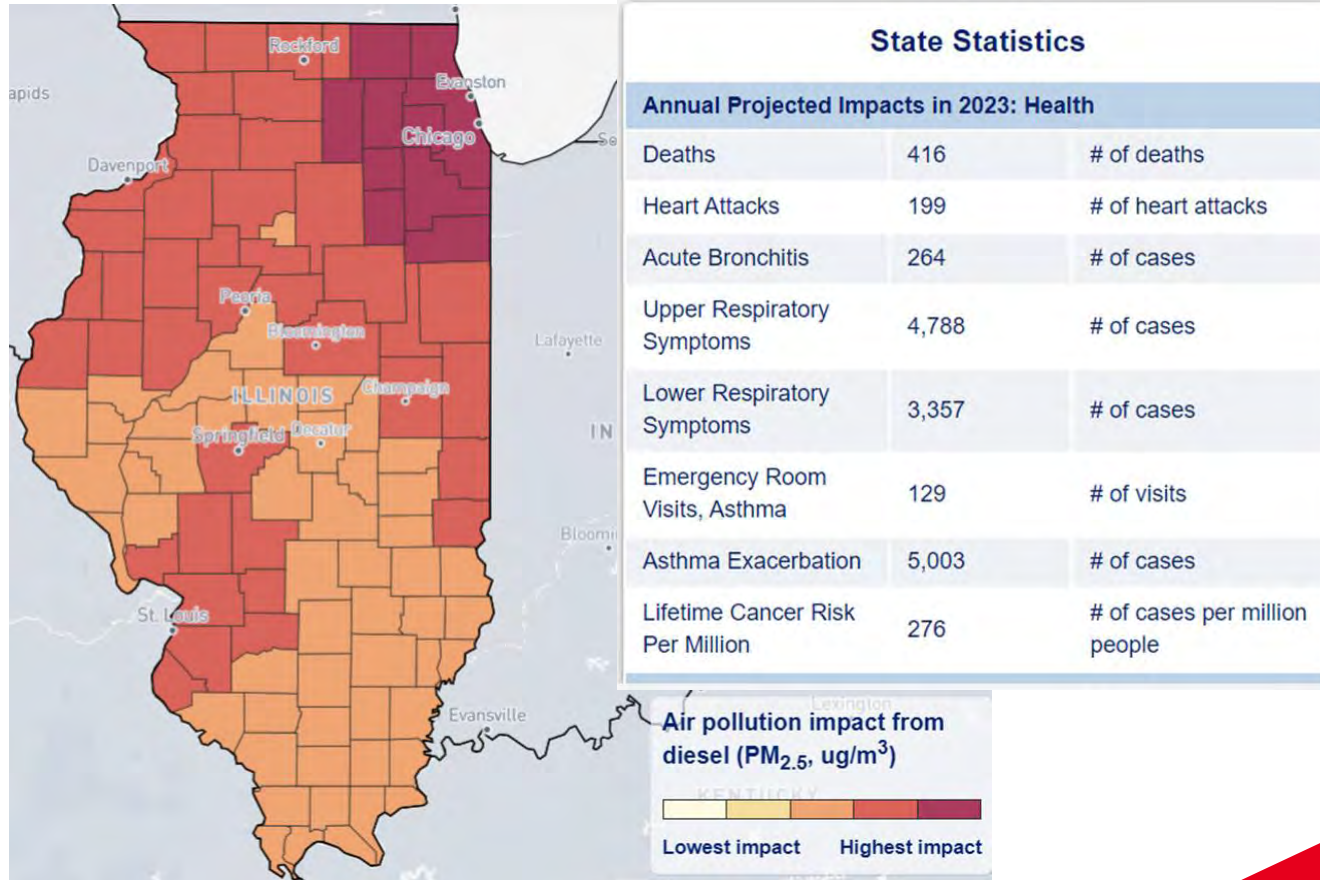
EQUITY AT THE CENTER

40%

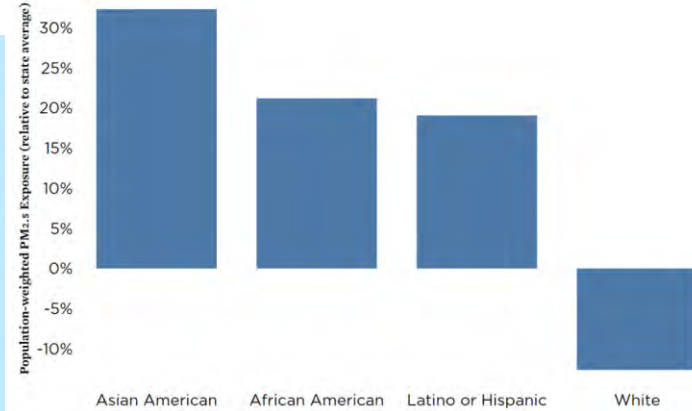
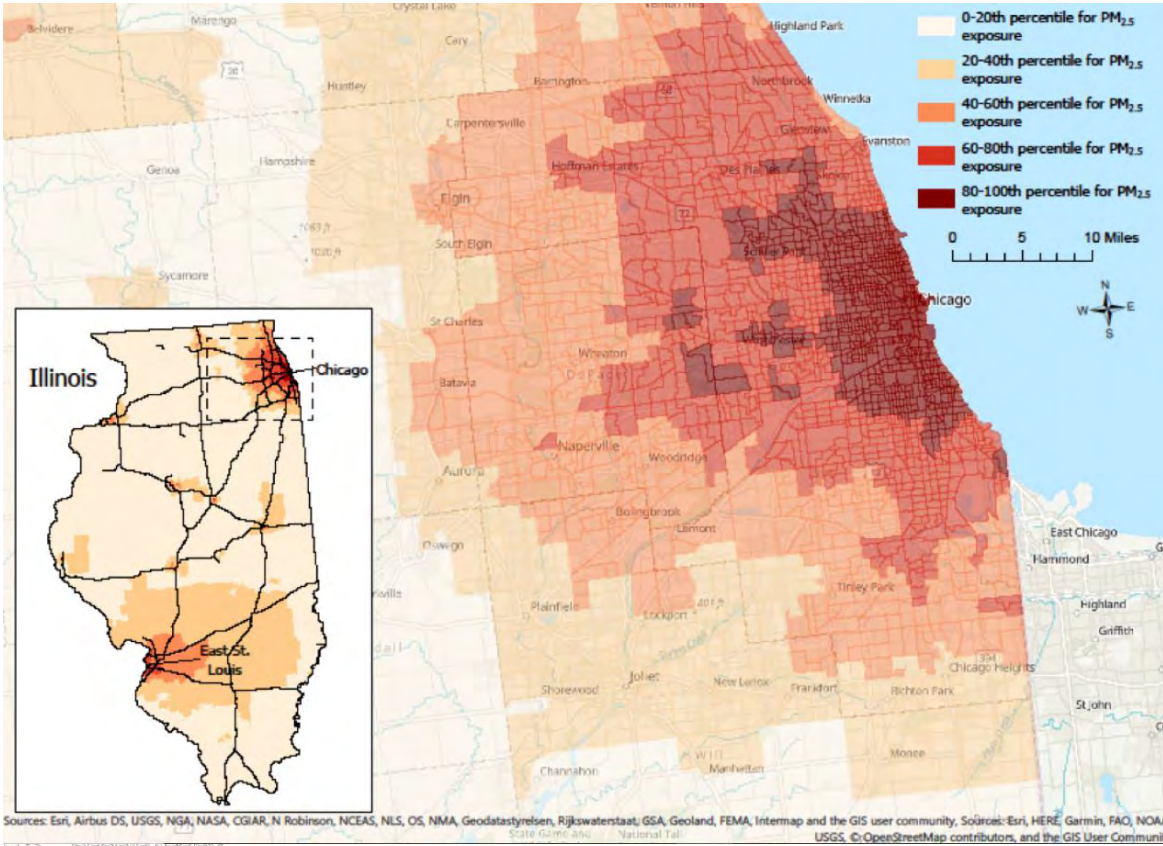
Of the benefits and investments in solar power, electric vehicles, and the grid must go to equity investment eligible communities and persons



Clean Air Task Force – Diesel Death (January 2022)



Average Annual PM2.5: On Road Vehicles



Asian Americans, African American, and Latino residents of Illinois are exposed to higher than average levels of particulate matter pollution from cars, trucks, and buses.

THE CLIMATE AND EQUITABLE JOBS ACT



Gets 1 million electric vehicles on the road by 2030



Authorizes the state to create a **\$4,000/vehicle** rebate for purchasing an electric vehicle.



Provides a rebate to cover up to **80% of the cost** of installing charging stations, and even incentivizes investment in grid communities.

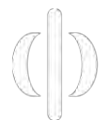


Requires utilities to file Beneficial Electrification plans to support electrification and manage grid impacts of charging, starting at **\$41 m/yr**, with **at least 40%** in equity communities.

EV @ IEPA

Creates an EV Coordinator at IEPA to oversee EV investments from the capital bill (~\$75 million), the VW settlement (~\$70 million), and to plan and oversee EV rebates and charging station rebates.

>\$50m/year



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CLIMATE AND EQUITABLE JOBS ACT



KEY AGENCIES / POLICY VENUES

Illinois Environmental Protection Agency (IEPA)

- The Illinois Environmental Protection Agency is responsible for hiring an EV Coordinator, providing EV rebates, and a charging rebate.



Illinois Commerce Commission

- The Illinois Commerce Commission is responsible for conducting a stakeholder process for Beneficial Electrification plan development, producing a report, and reviewing and approving utility-filed Beneficial Electrification Plans.



CLIMATE AND EQUITABLE JOBS ACT

KEY TIMELINES

- The ICC is holding its Beneficial Electrification stakeholder process from **November 2021 – February 2022**. Report published February 2022.
- After an ICC report, the utilities will file Beneficial Electrification Plans **by July 1, 2022**, which will be litigated at the ICC.
- The Governor will appoint an EV Coordinator at IEPA, which must be confirmed by the Senate (**Spring 2022**).
- IEPA charging station rebates start **July 1, 2022**.
- IEPA vehicle rebates start **July 1, 2022**.
- Utility Beneficial Electrification plan investments start **January 1, 2023**.

>\$50m/year

?

Bipartisan Infrastructure Bill (2021)

EV Charging ?

\$7.5b (IDOT \$149m so far)

School Buses?

\$2.5b electric,

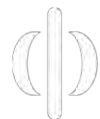
\$2.5b 'possibly electric'

Transit Funding?

\$39b in funding

Electric Grid Modernization?

\$65b to upgrade/Improve



VOLKSWAGEN!

2016 Court settlement



\$2.8 BILLION to states

Illinois still has \$70m left from \$109m

2021 NEW PLAN!!

No diesel, no natural gas, no propane

45% Electric Transit Buses

38% Electric School Buses

Up to 15% EV car chargers