

ENGLISH STATION PROPOSAL

By Zoya Sharma



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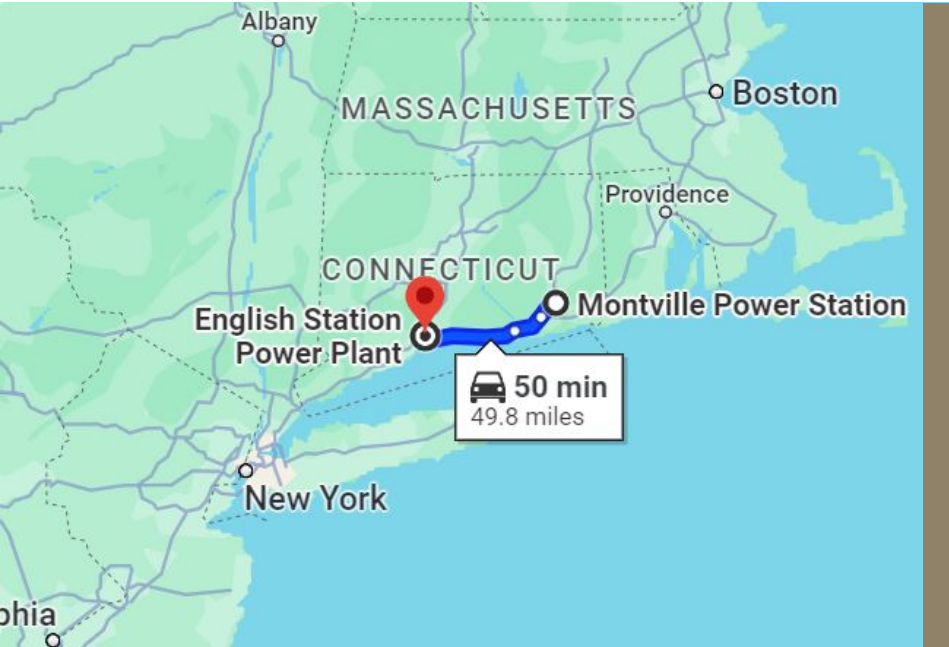
THE RESEARCH

THE SITE

- Located on Ball Island in the city of New Haven, Connecticut
- Built in 1929 and shut down in 1992
- Has been awaiting remediation since 2015
- Still heavily contaminated
- A potential symbol for the city's history and venue for the citizens of New Haven



Comparable power plants



Montville Power Station

- Located in Uncasville, New London, Connecticut
- Began operation in 1912
- Ran on coal for 52 years
- Switched to oil in 1971
- Still in operation

Emissions

2021 Emissions (tons)	28,892 CO ₂ 24.6 NO _x 36.9 SO ₂ 3 PM _{2.5}
2022 CAMD Emissions (tons)	106,282 CO ₂ 92 NO _x 174.9 SO ₂
2021 Emission rates (lb/MWh)	2,146 CO ₂ 1.8 NO _x 2.7 SO ₂ 0.5 PM _{2.5}
2021 Net generation (MWh)	Total generation: 26921 Generation from combustion: 26,921

CO₂ greenhouse gas: *warms atmosphere*

NO_x gasses which lead to respiratory illnesses

SO₂

PM_{2.5} particulate matter of 2.5 micrometers or less, causes respiratory issues

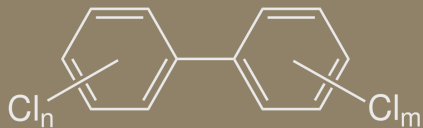
Overall 2021 emissions in tons:

28,892 tons of CO₂, **24.6** tons of NO_x, **36.9** tons of SO₂, and **3** tons of PM_{2.5}

This consumption of fossil fuels is nothing out of the ordinary, but the persistent detrimental effects of English Station after its decommissioning is what is currently harming the New Haven environment the most.



PCBS



Polychlorinated biphenyls:

- commercial production of them was banned in 1977
- When breathed in, the toxins can cause liver problems
- Animals also experience affects to the immune and reproductive systems, and can get cancer due to the chemicals

RIVER CONTAMINATION

- During high tide, water rushes up to the edge of the island, where the contaminants from the soil leak into the river.
- Fish can consume these chemicals

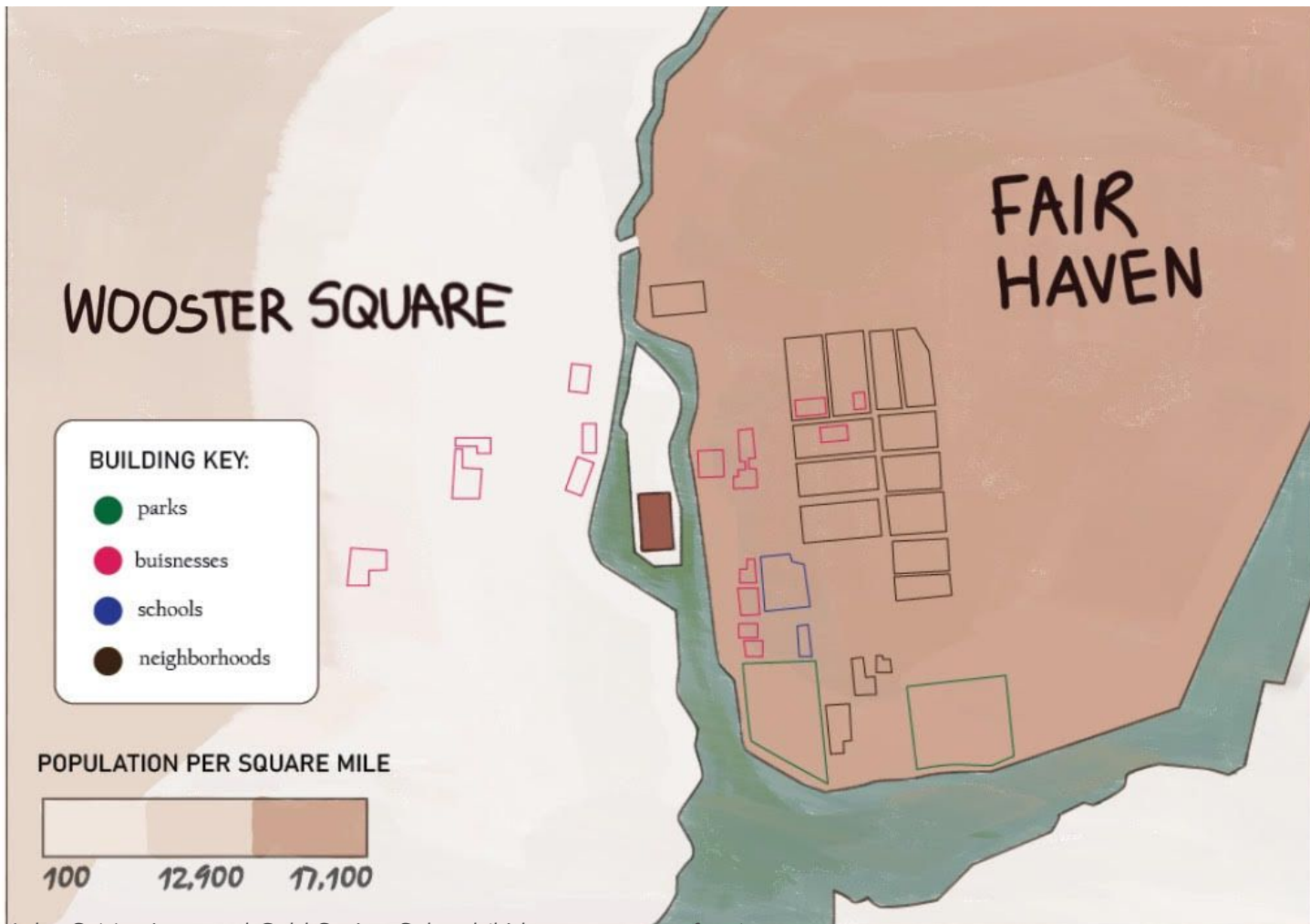
The English Station is primarily surrounded by the **Fair Haven** neighborhood, with Wooster Square to its left.



- PCBs and other toxins emitted by English Station have higher effects on children.
- Minority groups are disproportionately affected by exposure to toxins.
- These communities have been subjected to further adversity due to the mismanaging of the site

EFFECTS ON SURROUNDING COMMUNITIES

EFFECTS ON SURROUNDING COMMUNITIES



John S. Martinez and Cold Spring School (kids as young as four)



UNITED ILLUMINATING

- Built English Station
- Sold it in 2000 in different parcels (A & B)
- Ownership transferred 2 more times
- Although UI does not currently own English Station, the company signed a contract in 2015
 - They committed to partially remediate the conditions of the English Station site's environment
- While UI representatives state that the company has spent \$18 million to remediate the site, they were charged with a 2 million dollar annual fine this year which will continue until they clean up the site



“You can’t just walk away from these things – you have to have some sort of moral [obligation] to clean it up and honor the legacy of the burden that this community has borne.”

-CHRIS OZYCK (Associate Director of the Urban Resources Initiative)



THE PROPOSAL



Yale University Art Gallery

ABOUT THE PROPOSAL

While English Station has done more harm to the Fair Haven community than good, it is still a symbol of the city's history.

Could English Station be turned into a local venue for the citizens of Fair Haven to foster their learning and find out more about their community?

THE INSPIRATION



Beloit College Powerhouse



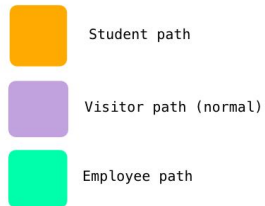
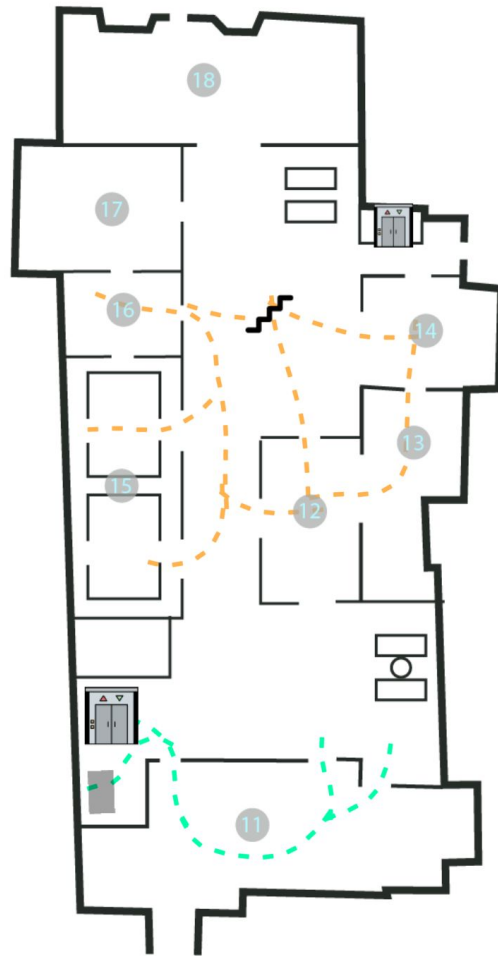
Gibbes Museum floor plan

FLOOR PLAN DESIGNS



- 1. Entrance
- 2. Admissions/Info center
- 3. Gift shop
- 4. Gallery 1
- 5. Gallery 2
- 6. Cafe
- 7. Gallery 3
- 8. Library
- 9. Movie/film space
- 10. Event space

- 11. Rooftop garden
- 12. Lab 1
- 13. Classroom 1
- 14. Meeting room 1
- 15. Classrooms
- 16. Lab 2
- 17. Meeting room 2
- 18. Office space



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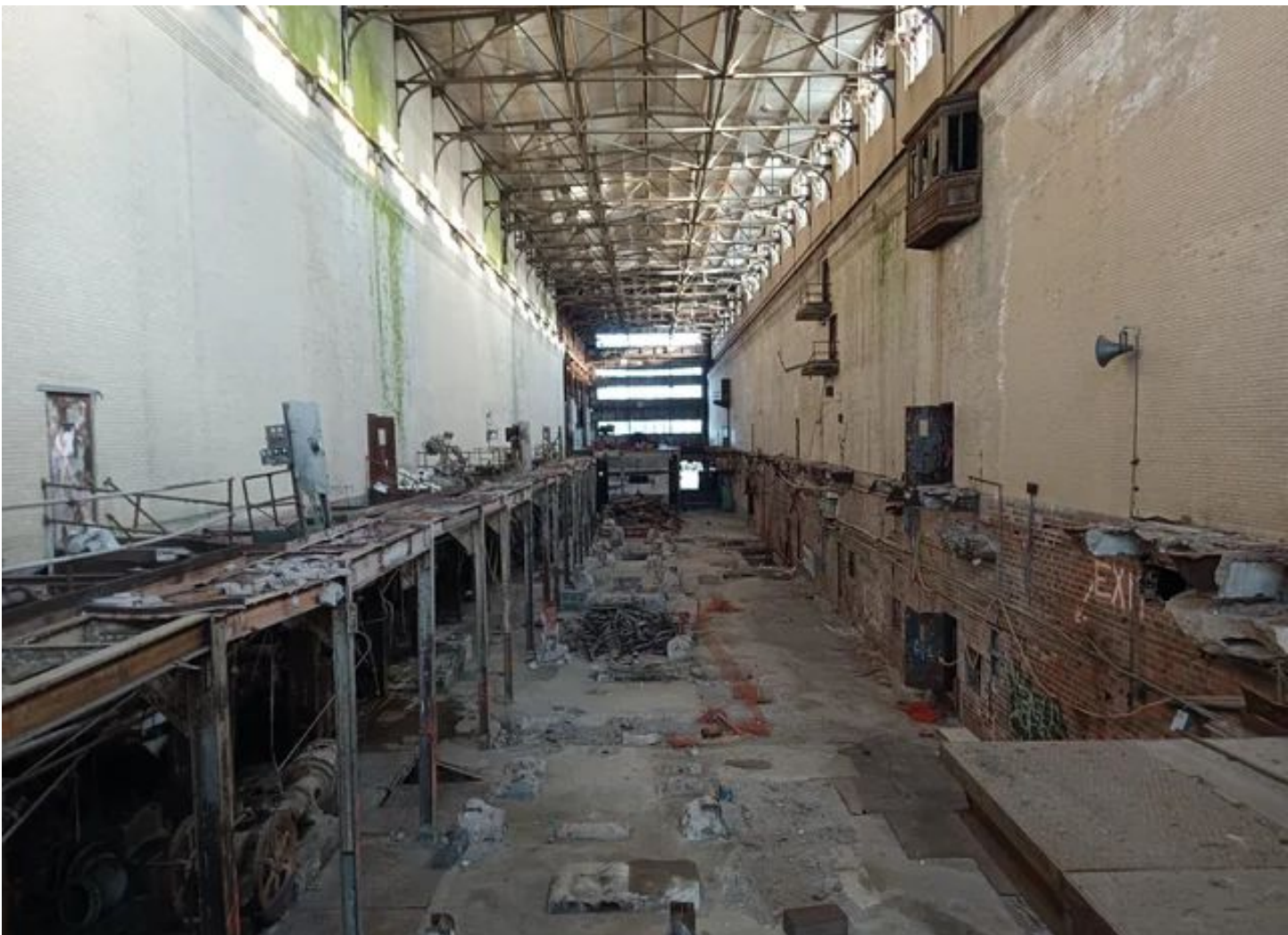
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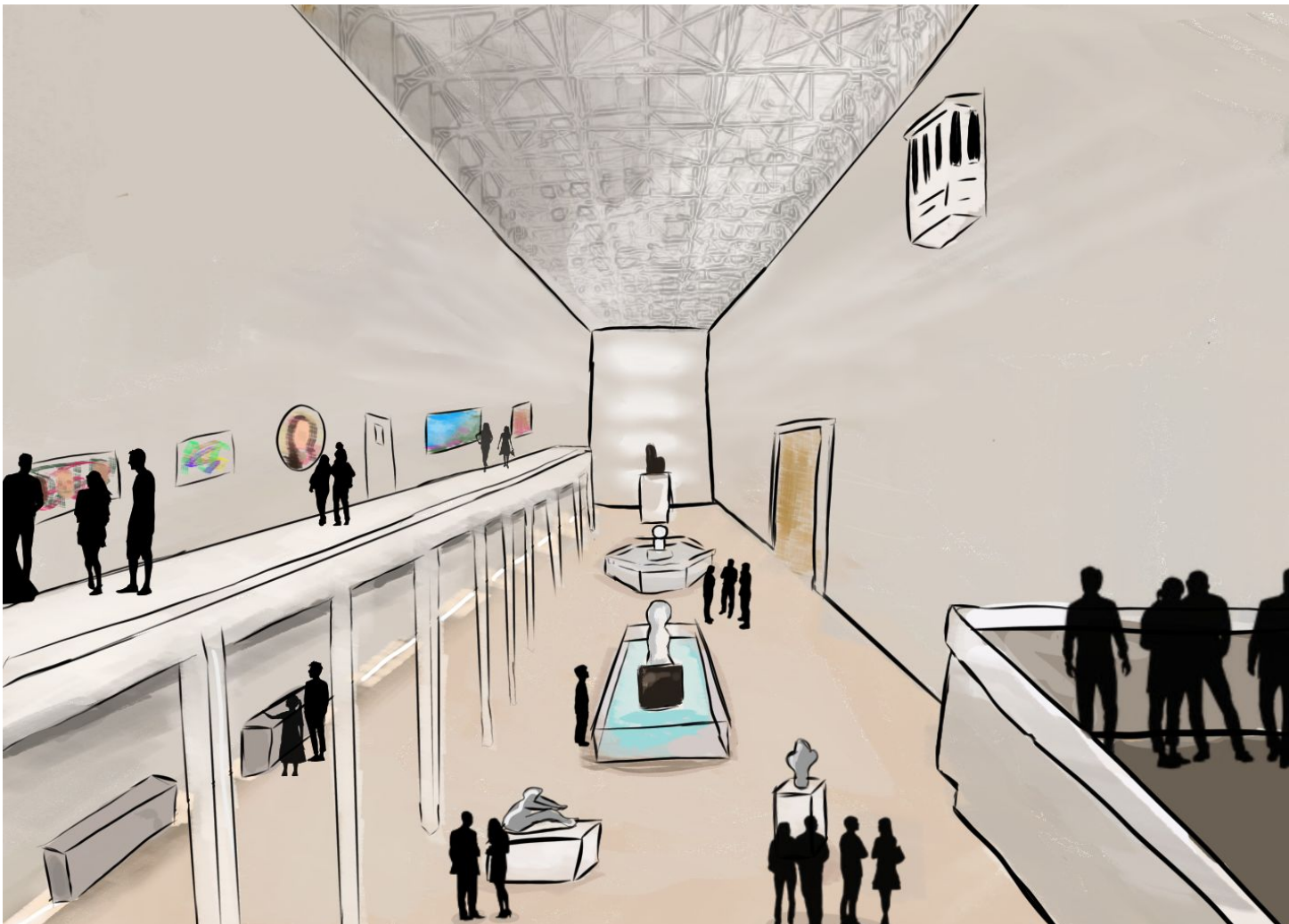
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SITE SKETCHES



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