NRDC's Sustainable Operations

Innovation-Driven Solutions to Reducing Heating-Related
Greenhouse Gas Emissions



Natural Resources Defense Council

NRDC works to safeguard the earth—its people, its plants and animals, and the natural systems on which all life depends.



550 scientists, lawyers, and policy advocates

2 million+ members and online activists

7 offices

Areas of Work

Climate Change Health

Communities Oceans

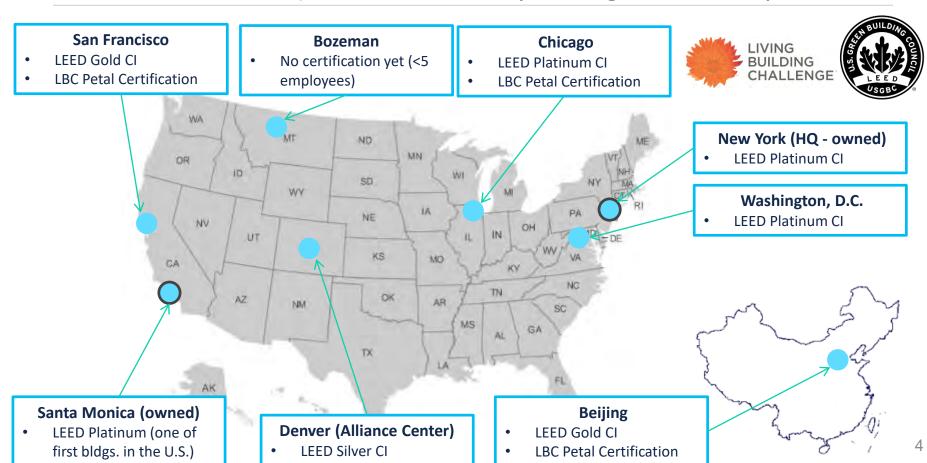
Energy Water

Food The Wild

NRDC Facilities & Administration Team Mission

"Through superior stewardship our facilities foster a collaborative and inclusive workplace. By prioritizing the planet we will continue to inspire our community to strive for the highest level of environmental standards and a sustainable future."

NRDC committed to greening our offices in 1988 (five years before LEED) and we are still pushing the envelope.



We see our offices as physical spaces and change agents















BUILDING GHG

AIR QUALITY

PROCUREMENT

TEAM ADOPTION

COMMUNITY BUILDING











WATER

TRAVEL GHG

ORGANIZATIONAL EDUCATION

PROVIDE ADVICE







COLLABORATION

WASTE

CONSTRUCTION

Heating-related Energy and GHG reduction initiatives

Prior to detailed measurements:

- New windows throughout the building
- Renovation of the 8th floor to an open plan

With detailed measurements:

- Set points & timing adjustments
- Boiler controls
- Air sealing (closed equivalent of 10 square foot hole)
- Conversion to B100 biodiesel
- Installation of electric immersion heater for fire sprinkler water tank

Conversion to B100 Biodiesel

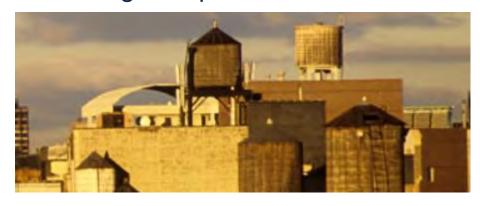
- Recycled used cooking oil
- Biogenic, non-fossil carbon emissions
- No changes required to boiler other than a few gaskets
- Virtually eliminated GHG emissions from heating in NY HQ





Electric immersion heater for fire sprinkler water tank

- Water tank for fire suppression sprinkler system is exposed on rooftop, stagnant and at higher risk of freezing than flowing water.
- After air sealing, building retained heat well, but boiler would be triggered to keep sprinkler water from freezing.
- Installation of an electric immersion heater meant the tank no longer required boiler for heat.





30% reduction in heating fuel use per heating degree day

Weather-adjusted heating fuel usage (kWh / HDD), floors 6-12, Oct. - Mar.

