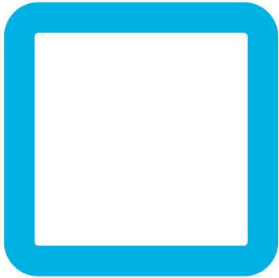


Connect with us.
Count on us.
Thrive alongside us.



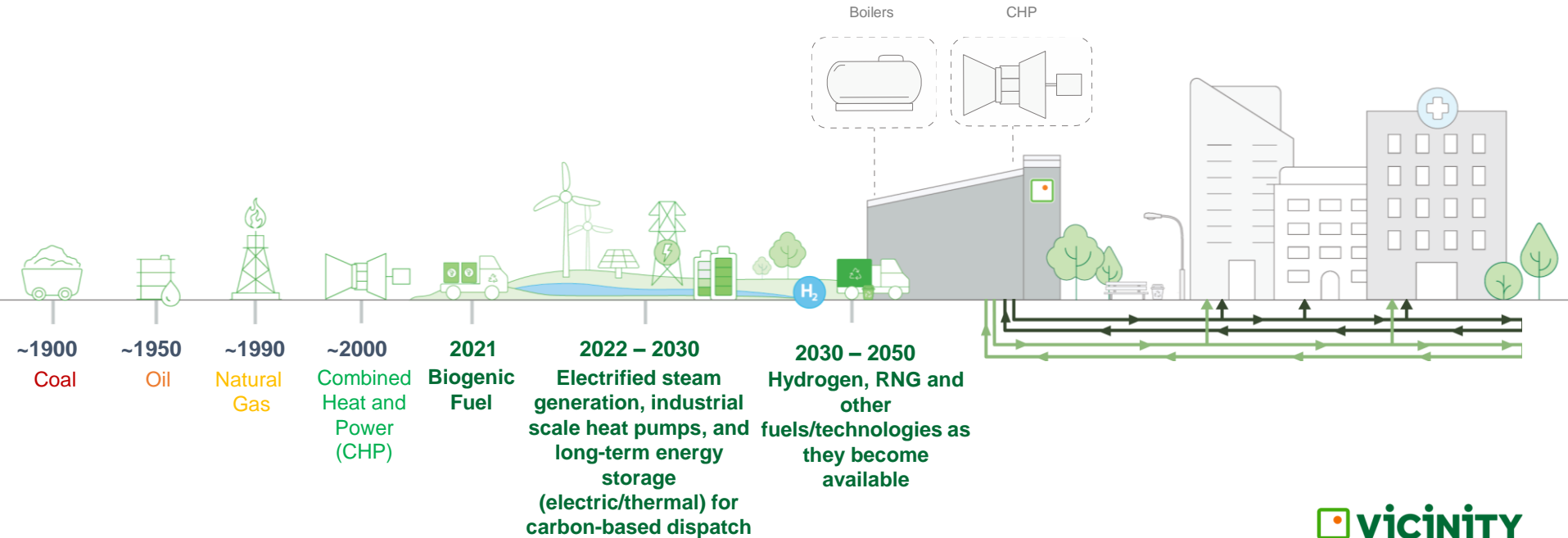
Rapidly Electrifying 65+ Million Sqft of Building Space in Boston / Cambridge: Vicinity Energy's Net Zero Action Plan

December 10, 2021



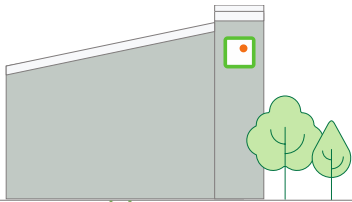
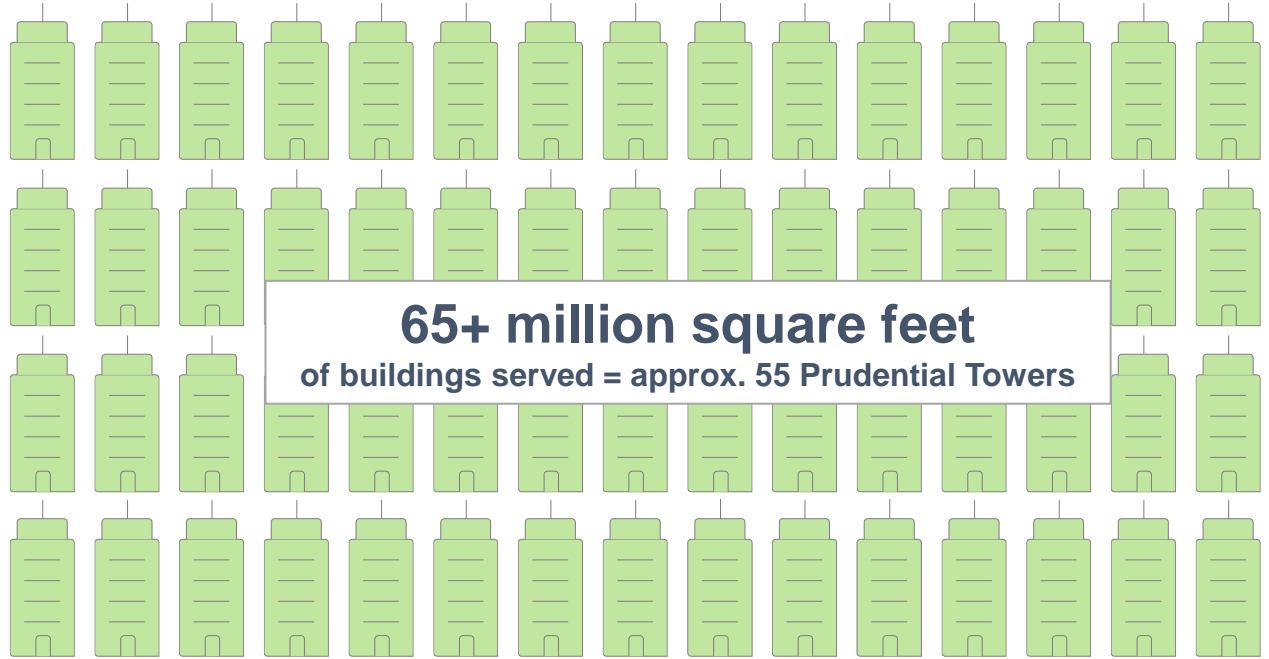
Leveraging Existing Infrastructure, New Technologies and Renewable Energy Sources to Decarbonize the Building-energy Sector

District Energy has a 100-year history of greening and Vicinity will deploy innovative technologies to achieve **net zero carbon emissions by 2050... Cutting our emissions in half by 2035**



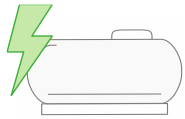
Vicinity's Assets Can Take a "Big Bite" out of Boston & Cambridge Carbon Emissions

- **65+ million square feet** of buildings served
- **All** downtown hospitals, life science, civic / commercial
- Existing **26-miles** of robust underground energy delivery piping
- 2 central plants *poised for electrification*
- Potential to **avoid 800,000+ metric tons/year of CO2**



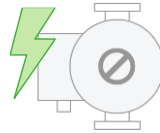
Vicinity is Electrifying...NOW

Our aggressive decarbonization plan includes electric boilers, industrial-scale heat pumps, thermal batteries, among other cutting-edge technologies and alternative fuels on the horizon.



Electric Boilers

- Phase One: 50MW electric boiler at Kendall Station
 - In final design
 - Equipment being sourced
 - In service – 24 months
- Connected to existing high-voltage transmission lines
- Will produce eSteam™ for heating from net zero /renewables
- Dramatically reduces our carbon footprint in the near term



Heat Pumps

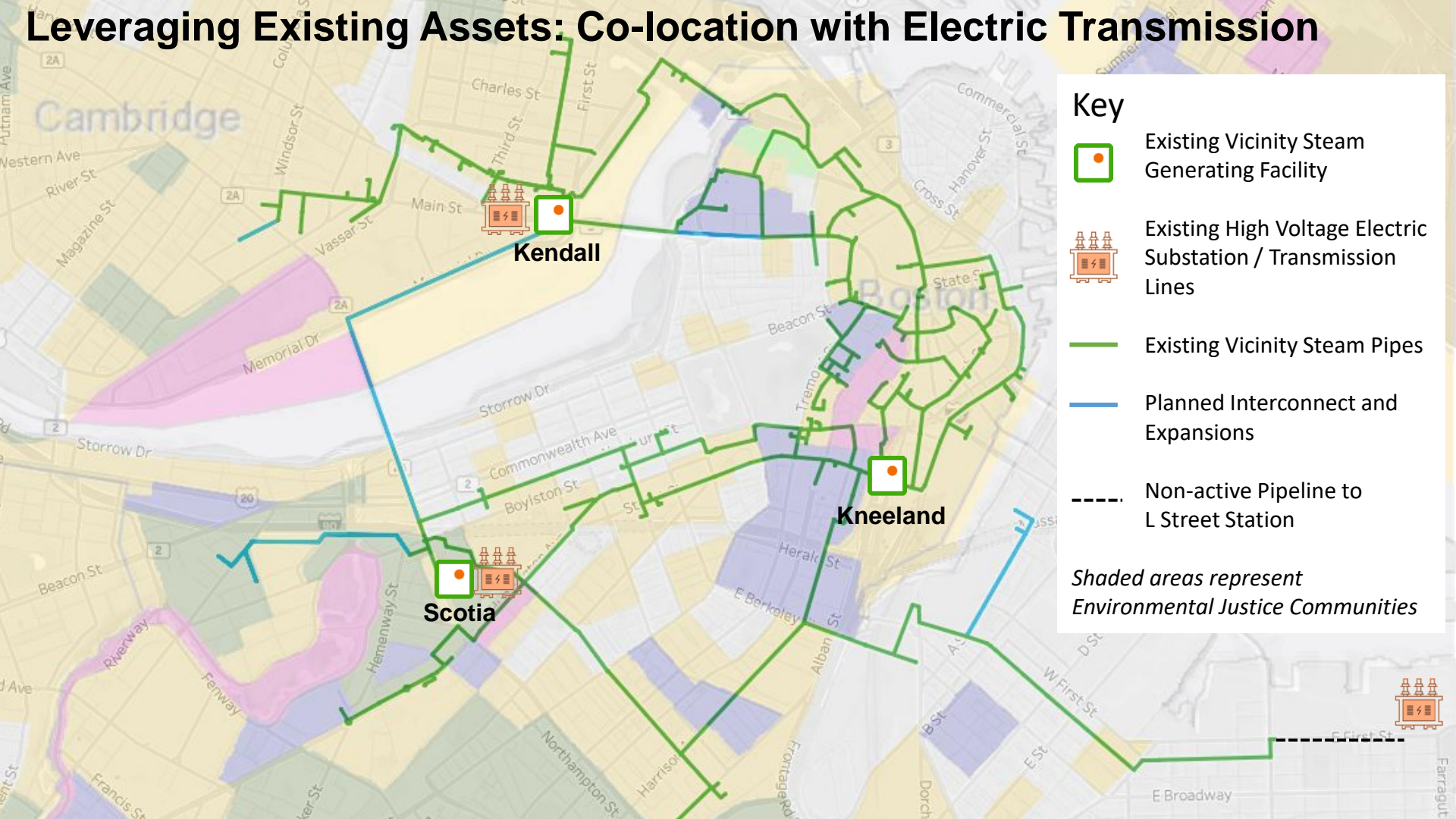
- 3rd party design nearly complete
 - Plans to issue an RFP
- Plan to install largest heat pump complex in MA... likely U.S.A.
- Use heat “lifted” from the Charles River to make eSteam™ and preheat eSteam™ boiler water
- Dramatically reduces our carbon footprint in the near term








Thermal Batteries

- Filing process for favorable transmission rates with ISO-NE has been accepted
- Mitigate cost and carbon content of electrical peaks by “peak shaving”
 - *Aligns winter offshore wind peak with building heating peak*
- Dramatically lower cost of electrified steam, driving adoption

Leveraging Existing Assets: Co-location with Electric Transmission



Key

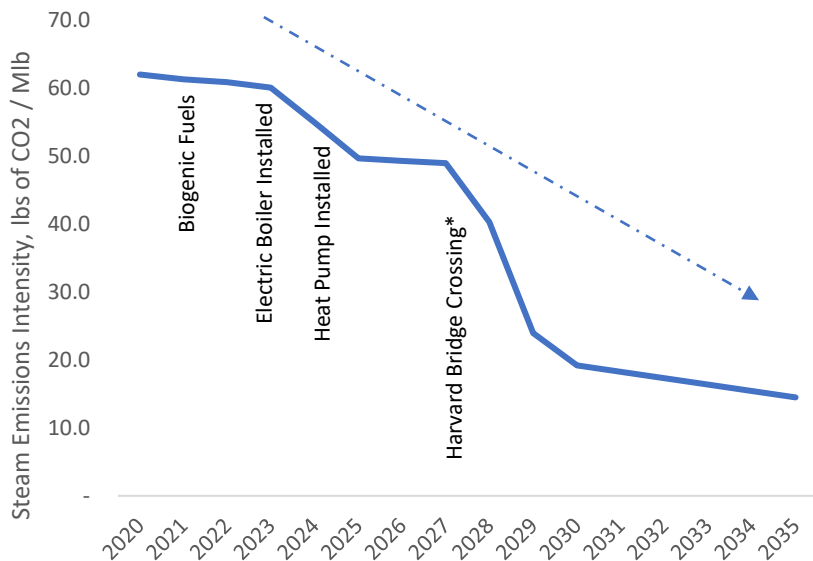
-  Existing Vicinity Steam Generating Facility
-  Existing High Voltage Electric Substation / Transmission Lines
-  Existing Vicinity Steam Pipes
-  Planned Interconnect and Expansions
-  Non-active Pipeline to L Street Station

Shaded areas represent Environmental Justice Communities

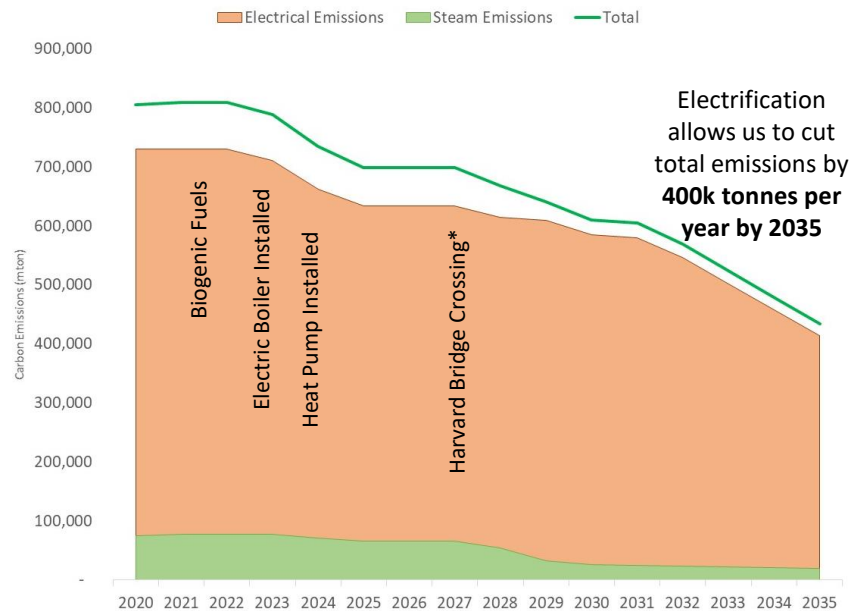
Achieving Net Zero: Significantly Reducing Emissions by 2035

Vicinity's carbon footprint will dramatically drop as we convert to renewable power to generate eSteam™

Steam Emissions Intensity Factor



Total Carbon Emissions



* Harvard bridge crossing allows retirement of Kneeland's gas burning assets in Boston. The crossing will increase the capacity of Kendall eSteam™ to downtown Boston.