

Massachusetts Grid Modernization Advisory Council

Meeting Presentation

December 4, 2025



Agenda & Roll Call



Item	Time
Administrative Items <ul style="list-style-type: none">• Welcome, Roll Call, Agenda• Public Comment Period• Meeting Minutes Review and Approval• Update on GMAC EDC Representatives• December GMAC Stakeholder Session• 2026 GMAC Meeting Schedule	1:00 – 1:20
Updates on ESMP Activities	1:20 – 1:25
Integrated Energy Planning <ul style="list-style-type: none">• EDC Presentation on IEP Stakeholder Working Group• Priorities for the Future of IEP• HEET Presentation on Geothermal	1:25 – 2:15
<i>Break</i>	2:15 – 2:20
IEP Facilitated Discussion <ul style="list-style-type: none">• Facilitated by Councilor Kyle Murray	2:20 – 2:55
Close	2:55 – 3:00

Public Comment



- 15-minute period for public comment
- Speakers will have up to **3 minutes** to speak on any topics of interest related to the GMAC. Once everyone who has pre-registered has provided comment, others may speak, as time allows.
- Please state your name and affiliation before delivering your comment.

GMAC Minutes Review and Voting



Meeting Minutes

- Calling for vote to finalize:
 - October 30, 2025 GMAC meeting minutes

Are there any requests for edits to the minutes?

On behalf of the Council, the Chair may approve the minutes as distributed/as amended.

GMAC EDC Representatives Update



- **Thank you, Digaunto Chatterjee and Andrew Schneller!**
 - Digaunto and Andrew will be stepping down as EDC representatives on the GMAC. Thank you both for your great work and collaboration!
- **Welcome, Jen Schilling and Dan Marceau!**
 - The GMAC welcomes Jen Schilling, representing Eversource, and Dan Marceau, representing National Grid, as EDC designees.

December GMAC Stakeholder Session



Please join the GMAC & EEA for

THE FUTURE GRID FROM A MUNICIPAL LENS

Learn how MA will modernize and proactively plan our electric grid, and engage in breakout sessions to help identify priority topics for the GMAC.

NEW CUSTOMER CONNECTIONS WORKSHOP

Join EEA's guided discussion on challenges and opportunities in connecting new electric customers to the grid.

DECEMBER
12, 2025

UMASS AMHERST

GMAC Event:
9:00 AM to 1:00 PM

EEA Workshop:
2:30 PM to 4:00 PM

Register Here: <https://bit.ly/FutureGridEvent>

- We are looking forward to the western MA stakeholder event “The Future Grid from a Municipal Lens” on December 12th at UMass Amherst.
- Thank you to the GMAC members supporting the event as moderators, panelists, and facilitators.
- **We kindly ask GMAC members to serve as discussion leaders during the facilitated discussion.**
- **If you haven't registered yet, please do so here:** <https://bit.ly/FutureGridEvent>

Can GMAC members raise their hand if they plan to attend?

2026 Workplan Overview



- As a reminder, the GMAC approved a 2026 workplan at the last GMAC meeting. Meeting dates have been finalized and Zoom links have been sent.
- Slide 8 provides an overview of monthly meeting topics.
- Slide 9 provides draft agendas for the first quarter of 2026.
- Consultant Update:* DOER is in the final stage of procuring a GMAC consultant for CY26 and will notify the GMAC as soon as it is finalized.

	J	F	M	A	M	J	J	A	S	O	N	D
Ongoing Administration	<p>Monthly GMAC Meetings</p> <p>Quarterly Executive Committee Meetings</p> <p>2027 Planning Budget Filing End of year stakeholder event</p>											
Objective 1: Identifying and Addressing Real World Electric Load Growth Challenges	Intro	Load Growth Area Deep Dives									Resolution	
Objective 2: Identifying and Addressing the Cost Challenges of Grid Modernization	<p>Quarterly Equity Working Group Meetings</p> <p>Scope and Commence Bill Impacts Analysis Present and Discuss Results of Bill Impact Analysis Discuss Options for Reducing Costs & Bills Continue Discussion & Next Steps</p>											
Objective 3: Understanding ESMP Implementation Challenges via Biannual Reports	<p>Biannual Report Filing 3/31 Summary Memo and Discussion Biannual Report Filing 9/30 Summary Memo and Discussion</p> <p>Cost Recovery Filing 5/1 Summary Memo and Discussion</p>											
Objective 4: Stakeholder Materials on Grid Modernization Efforts	<p>Align on format Update #1 Element 1: Grid Modernization Activity Tracker Update #2 Update #3 Update #4 Update #5</p> <p>Element 2: Review DOER Guide to Grid Mod. Activities</p>											

2026 GMAC Meeting Topics Overview



Q	Date	Obj. 1: Load Growth Impacts	Obj. 2: Grid Cost Challenges	Obj. 3: ESMP Implementation	Other	
Q 1	1/29	EDC Load Forecasting Overview				
	2/26	Area 1: Base Loads/Large Loads/Data Centers			Review Obj. 4 Progress	
	3/26	Area 1: Base Loads/Large Loads/Data Centers	EWG Discusses & Prepares Bill Impacts Analysis			
Q 2	4/30	Area 2: Buildings		March Biannual Report Filing Observations/Discussion		
	5/28	Area 2: Buildings		Annual Cost Recovery Filing Observations/Discussion	Review Obj. 4 Progress	
	6/25	Area 3: Demand Response	EWG Report Out on Bill Impacts & Intro to Cost Effective Investments		CY27 Strategic Planning	
Q 3	7/30	Area 3: Demand Response			CY27 Strategic Planning	
	8/20	Area 4: Transportation			Review Obj. 4 Progress	
	9/24	Area 4: Transportation	Discuss Options for Reducing Costs & Bills		CY27 DPU Budget Filing	
Q 4	10/29	Area 5: DERs			Review Obj. 4 Progress	
	11/19	Drafting GMAC Resolution		September Biannual Report Filing Observations/Discussion		
	TBD	<i>GMAC Public Stakeholder Session: Readout of ESMP Implementation and GMAC Work</i>				
	12/17	Finalizing GMAC Resolution		End of Year ESMP Implementation Observations/Discussion		

Q1 2026 GMAC Meeting Draft Agendas



Date	Topic	Learning Goals	Draft Meeting Agenda
Jan 29	EDC Load Forecasting Overview	<ul style="list-style-type: none"> Why are forecasts central to the ESMPs? How do the EDCs forecast load growth at a high-level? What lessons have been learned through the development of the first ESMPs? What policy, market, or technological factors could lead to significant changes in the load growth the EDCs forecast? What are the differences between load forecasts and demand assessments? 	<ul style="list-style-type: none"> Admin & ESMP Updates EDC Introductory Presentation <ul style="list-style-type: none"> Overview on why the ESMPs rely on forecasts and how the EDCs create forecasts Review 2024 ESMP forecasts + any updates from biannual report Understand differences between forecasts and demand assessments Highlight key challenges or uncertainties with forecasting load growth GMAC Discussion – Led by: (to invite) Jim Stanislaski and Andy Sun <ul style="list-style-type: none"> The GMAC will identify an initial set of key questions on load growth areas and schedule deep dives in the proceeding months. Discuss invitations to external speakers who may provide useful additional context.
Feb 26	Area 1: Base Loads/Large Loads/Data Centers	<ul style="list-style-type: none"> How do the EDCs define, track, and proactively plan for step loads and data centers? How are municipal and regional plans integrated into the planning process? Who are the “right” stakeholders to reach to get input on forecasts? What impact will data centers have on the grid? 	<ul style="list-style-type: none"> Admin & ESMP Updates EDC Presentation <ul style="list-style-type: none"> Brief presentations from the EDCs on current understanding of step/spot load planning and forecasting Discuss interaction with municipal/regional planning processes EEA Presentation – New Customer Connections & Data Centers <ul style="list-style-type: none"> Discuss EEA new customer connections initiatives and stakeholder engagement efforts on data centers MassEcon Presentation <ul style="list-style-type: none"> Discuss report on high demand for business development GMAC Discussion – Led by: (to invite) Larry Chretien and Jonathan Stout
Mar 26	Area 1: Base Loads/Large Loads/Data Centers	<ul style="list-style-type: none"> How do large C&I customers and EDCs interact? What are the bottlenecks for large load interconnection? What can GMAC do to address bottlenecks? 	<ul style="list-style-type: none"> Admin & ESMP Updates C&I Industry Presentation (to invite) Councilor Jonathan Stout GMAC Observations and Discussion – Led by: (to invite) Larry Chretien and Jonathan Stout <ul style="list-style-type: none"> Discuss load growth presentations and potential GMAC actions to address bottlenecks

ESMP Activities Updates



1. **ESMP Phase II**
 1. **Long-term cost recovery**
2. **IEP Working Group**
3. **LTSP (DPU 25-20)**
4. **Other**

Key Upcoming Dates	
IEP Stakeholder Working Group Listening Session	12/9
IEP Stakeholder Working Group Listening Session	12/11
GMAC In-Person Stakeholder Session	12/12

**Stay up to date on ESMP activities via the Activity Tracker!*

Are there any updates on these items?

Integrated Energy Planning

IEP Stakeholder Working Group Update

GMAC Meeting, December 4, 2025

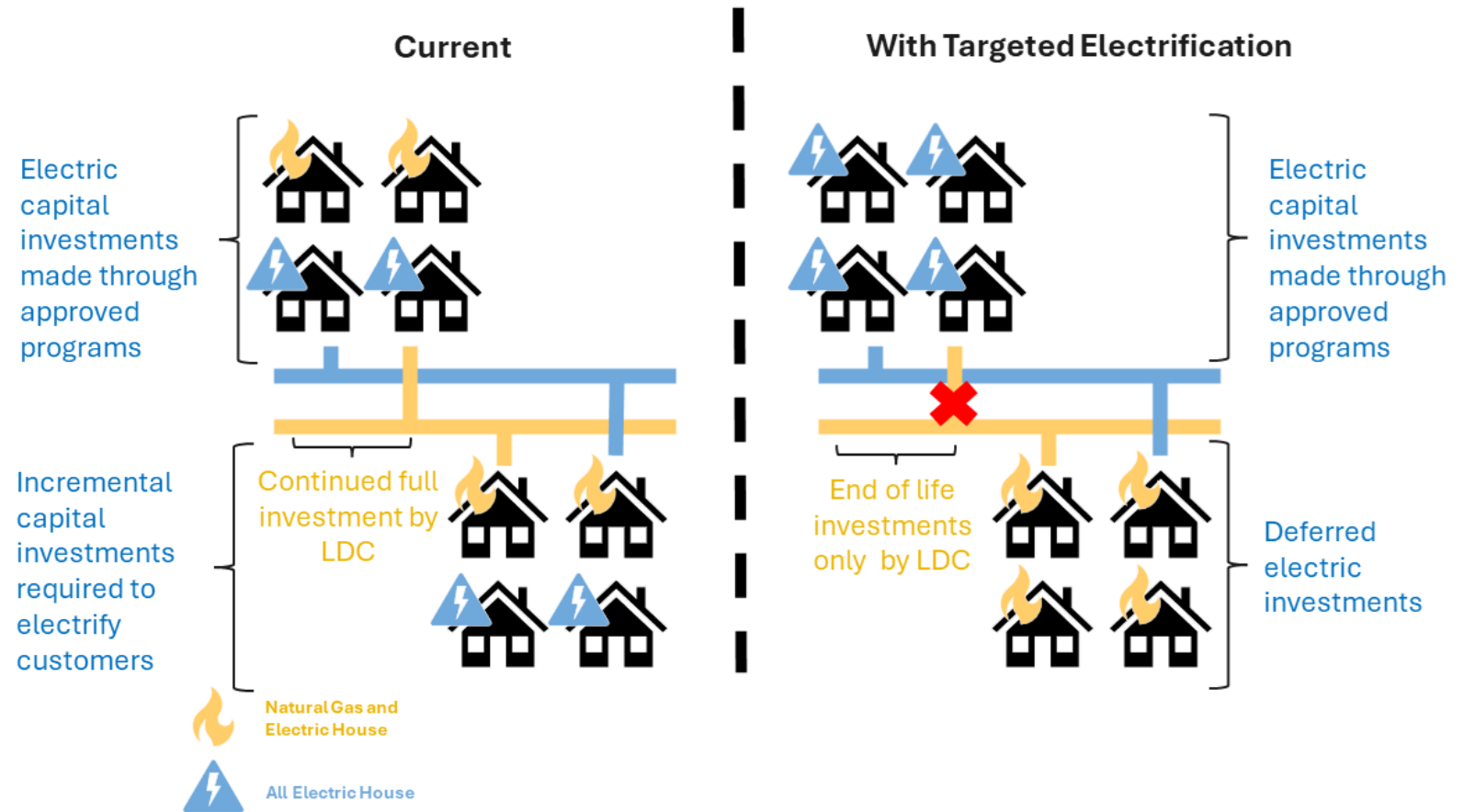


Agenda

- ▶ What is IEP?
- ▶ Review 2025 IEP Stakeholder WG Topics
- ▶ 2026 Work Plan

What is IEP?: The Challenges with Today's Electrification

- Many current electrification efforts are carried out through electrification programs, which often prioritize **optimizing customer cost but not system cost**.
- As more and more customers transition, this results in **dual infrastructure** which is becoming increasingly **expensive** to maintain.
- Integrated Energy Planning (IEP) coordinates investment activities between **gas and electric systems as well as other electrification efforts**.



A vision of IEP

As the Commonwealth moves towards its electrification goals for heating and transportation, the energy utilities and other stakeholders recognize that this transition to electrification can be done more affordably if IEP allows three things to be planned in coordination to foster an orderly transition while maintaining safe and reliable service:

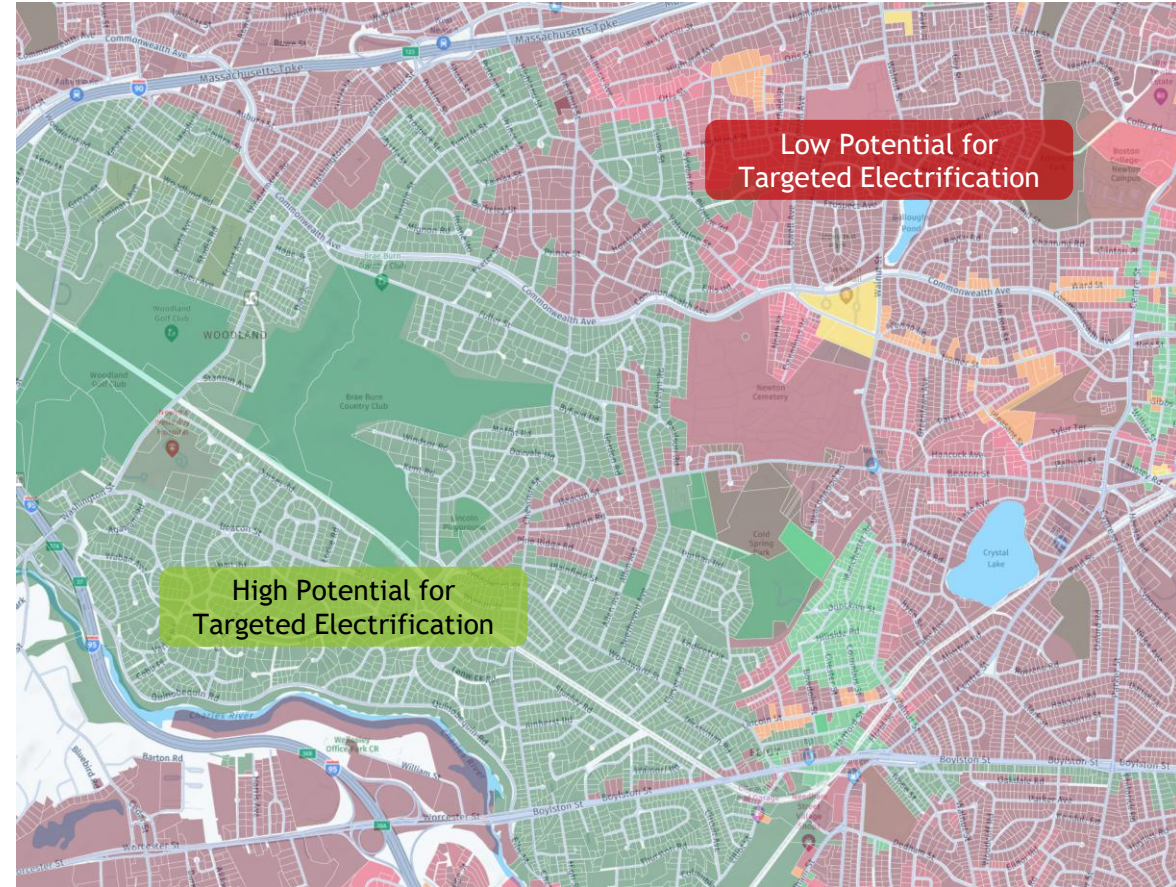
1. Targeted **customer adoption of electrification** in specific locations and timeframes;
2. **Electric system investments** to ensure sufficient capacity for electrification-driven load growth; and
3. Strategic **decommissioning of gas infrastructure**, including asset retirement, maintenance, and investment planning.

Such an orderly transition mitigates challenges such as spreading the costs of maintaining the current gas system across fewer and fewer customers over time, potentially burdening those customers during the transition and the cost of maintaining two networks.

The primary objective of IEP is to maintain safe and reliable service in a cost-effective manner while supporting the Commonwealth's ambitious decarbonization and energy efficiency goals, rather than directly pursuing greenhouse gas emissions, which are the focus of other programs.

What this might look like

- **Develop Capabilities** (technology, process, people, data)
 - Pilots/NPAs to provide customer and other implementation insights (shorter-term)
 - Develop ranking methods that appropriately account for local factors (medium-term)
 - Coordinate gas and electric planning across affiliates and nonaffiliates to optimize networks and demand-side solutions (longer-term)
- **Drive Policy & Regulatory Landscape/Enablers** to support targeted transition efforts
 - New frameworks for cost allocation and recovery
 - Coordination with EE
- **Engage Communities** to secure customer commitment
 - Community outreach plans (shorter-term)
 - Community-centric energy planning (longer-term)



2025 IEP Working Group Objectives & Timeline

Over the course of 6+ months, the objectives of this Working Group are to (a) provide an overview of “current state” of electric and gas planning processes; (b) invite stakeholders to share and discuss their visions for IEP; and (c) sharpen the picture of the “future state” of IEP and the enablers that will allow it to flourish.

Meeting Date	Meeting Type	Topic
Thursday, May 29	IEP Stakeholder Session #1 (3hrs)	IEP Guiding Principles
Thursday, Jul 24	IEP Stakeholder Session #2 (3hrs)	IEP in Action
August 19 & 21	Public Listening Session (1 hr)	Readout of IEP Stakeholder Sessions 1 and 2
Thursday, Sep 18	IEP Stakeholder Session #3 (3.5 hrs)	Equity considerations in IEP
Thursday, Nov 13	IEP Stakeholder Session #4 (3.5 hrs)	2026 Work Plan and Next Steps
December 9 & 11	Public Listening Session (1 hr)	Readout of IEP Stakeholder Sessions 3 and 4 and looking ahead

2026 Work Plan

The working group established a mutually agreed upon set of topics and goals for 2026. The EDCs collaborated with stakeholders to gather early input, integrate feedback, and deliver a final plan.

▶ Structure:

- ▶ Up to six 3-hour meetings, with facilitator; potential for additional work in topical sub-groups
- ▶ Public listening sessions at mid- and end- of year

▶ Goals:

1

Develop collaborative action plans that resolve key barriers to IEP

Candidate IEP enablers/barriers topics:

- Municipal and community engagement & the role of municipal/community leaders in IEP
- Funding and cost allocation solutions
- Regulatory alignment (e.g., with EE, ESMPs, CCPs, GSEP)

2

Advance near-term progress that informs the development of IEP

Candidate near-term progress topics:

- Explore IEP related questions with EE Advisory Council ahead of next EE 3-Year Plan
- Evaluate applicability of programs in other jurisdictions
- Explore collaboration with public housing stakeholders for candidate near-term work
- Share learnings from ongoing utility efforts



MASSACHUSETTS
**DEPARTMENT OF
ENERGY RESOURCES**

2026 Priorities for Integrated Energy Planning

December 4, 2025

Jenny Goldberg, Integrated Energy Planning Manager



DOER Integrated Energy Planning Priorities for 2026

IEP is key to enabling building sector emission reductions while minimizing overall system costs.

- **DOER, AGO, OET, & MassCEC developed a set of recommendations for the Working Group (July 2025)**
 - EDCs' 2026 Workplan explores some of these recommendations, including:
 - Who should lead certain aspects of IEP development (ex. EDCs, LDCs, state agencies) and where should these conversations take place?
 - How should the IEP interact with existing planning processes (ex. GSEP, ESMPs, 3 Year Plans)?
- **Additional 2026 IEP Workplan Highlights:**
 - Engage EEAC prior to development of the next 3 Year Plan
 - Opportunities for other stakeholders to provide input on certain IEP topics (ex. giving EJ organizations the opportunity to provide input and guidance on equity in IEP)
- **DOER's 2026 IEP Considerations**
 - How to align milestones/timelines for IEP development and implementation with MA's affordability & climate goals?
 - EDC & LDC technical and analytical capabilities

How Can GMAC Support IEP Success?

GMAC can facilitate necessary engagement between a broad range of stakeholders to advance IEP, including municipalities and communities


- GMAC has established municipal engagement as a priority and has experience engaging leaders from municipalities who want to electrify and advance climate goals and affordability.
- Customer engagement and education is key to the gas-electric transition and targeted electrification.
- Coordination between gas utilities, electric utilities, municipal governments, and customers is challenging but key to advancing IEP.

Example of Municipal IEP Engagement in Action: Newton

- City councilors and local activists took an interest in avoiding new gas system investments.
- National Grid (gas) and Eversource (electric) are now collaborating with Newton on IEP.

Garland Road Electrification Pilot
Jon Slote, 117 Garland Road, Newton, MA

Background



- The southern section of Garland Road in Newton Center has 9 single-family homes and one 3-unit multi-family building.
- In late 2024 National Grid proposed replacing 600' of gas pipe on the street, although there were no known leaks on this section of pipe.
- Many residents felt that this was a poor use of funds, and spoke against the replacement at a public hearing.
- When the City Council approved the grant of location, residents met to see if GSEP funds could be used to instead electrify.
- Residents were surveyed to understand their sentiments about an alternative and understand the potential costs to electrify.

May 2025 Presentation from a Newton resident



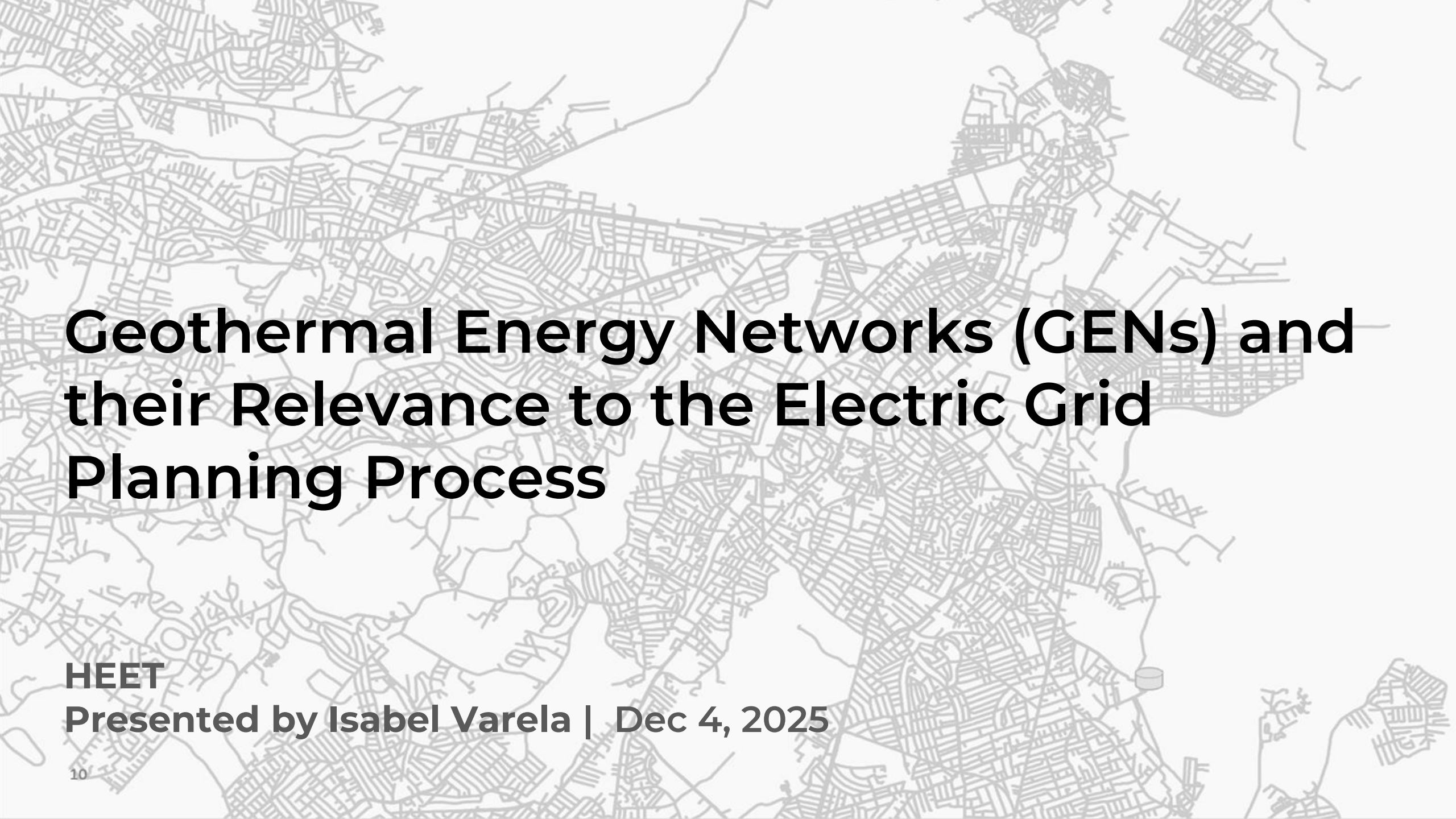
MASSACHUSETTS
**DEPARTMENT OF
ENERGY RESOURCES**

Thank You!

Additional Perspectives from IEP Working Group Members



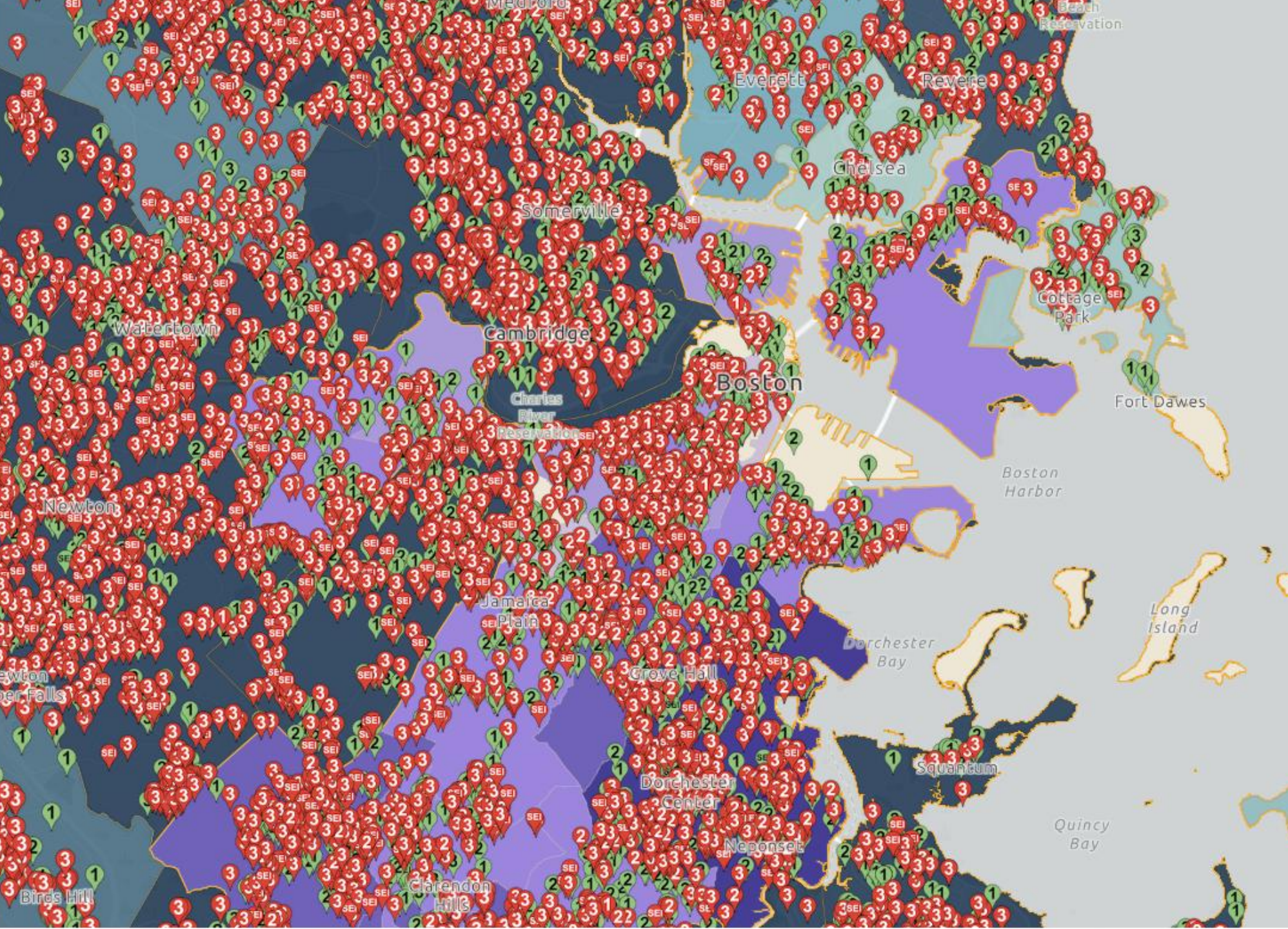
- Melissa Lavinson, MA Office of Energy Transformation
- Mary Gardner, MA Office of the Attorney General
- Meg Howard, MassCEC
- Kyle Murray, GMAC Representative

The background of the slide is a light gray line-art map of a city street grid. A small, stylized icon of a geothermal well, consisting of a cylinder with a vertical pipe extending downwards, is located on the right side of the map.

Geothermal Energy Networks (GENs) and their Relevance to the Electric Grid Planning Process

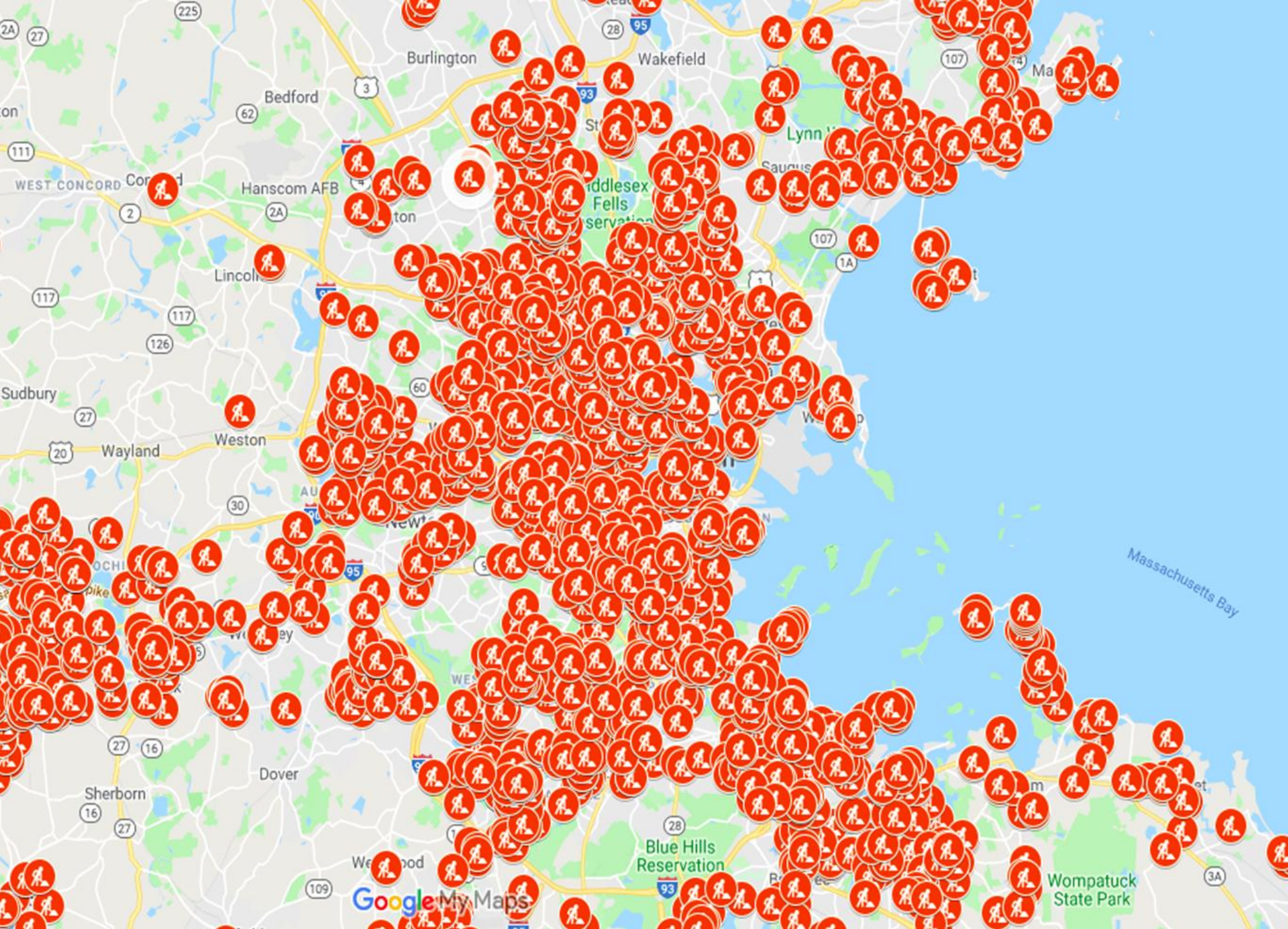
HEET

Presented by Isabel Varela | Dec 4, 2025



Our gas infrastructure is aging and leaking methane





Gas Pipe replacement currently projected to exceed \$30 Billion

Currently we are investing in an old system



Utility-Scale Electricity
GEO POWER

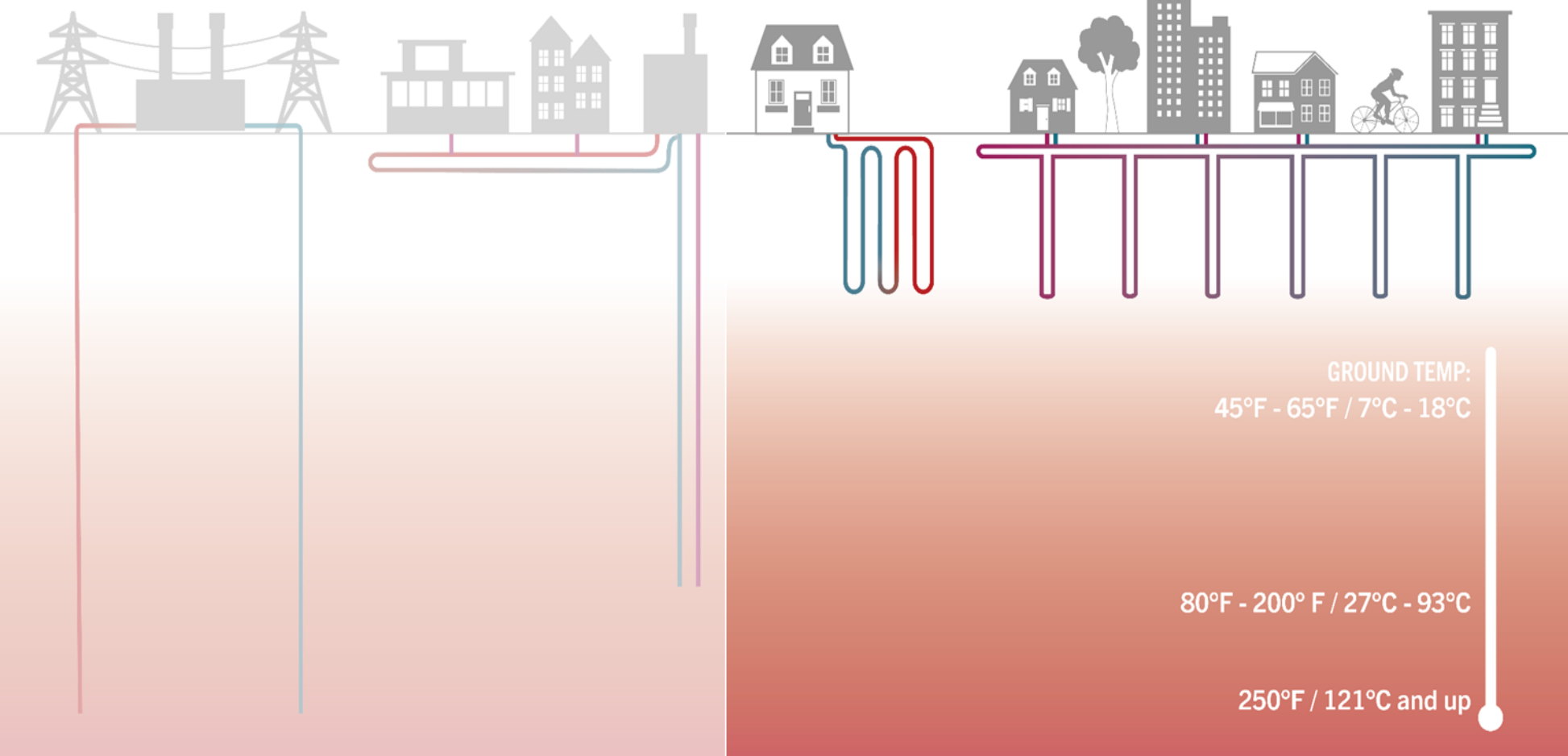
District Heating
GEO DIRECT USE

Heating & Cooling
GEO BUILDING

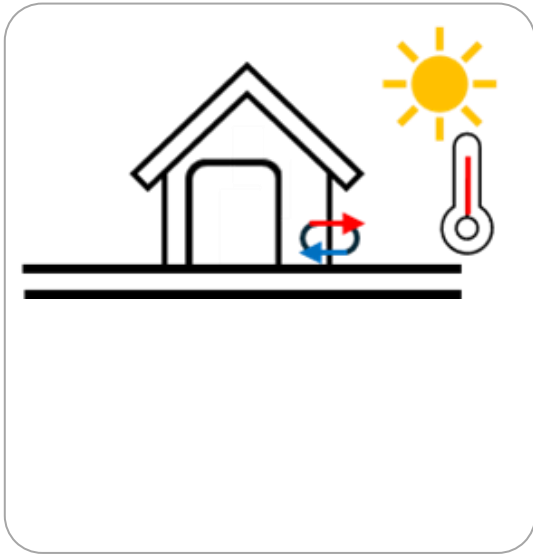
Utility-Scale Heating & Cooling
GEO NETWORK

All Geothermal Technologies provide STABLE non-intermittent energy

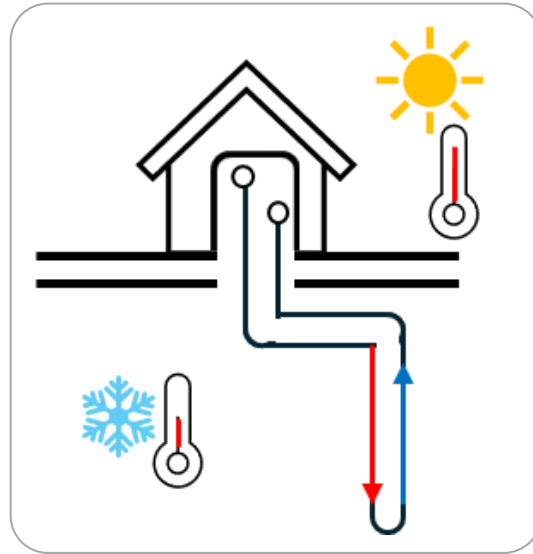
Ambient Geothermal is the EVERYWHERE ENERGY



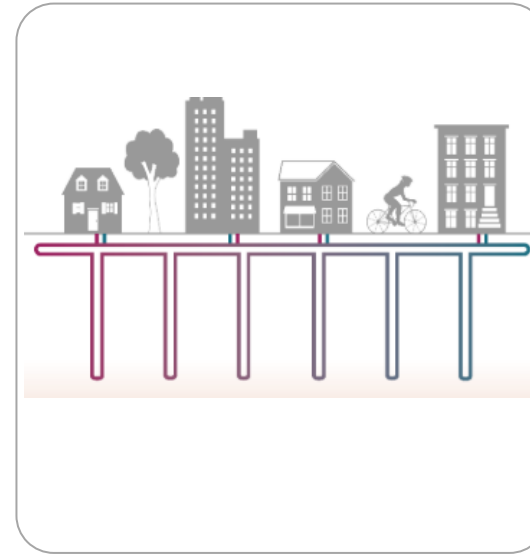
Air-source



Ground-source



GENs



- Air temperature
 - varies daily and seasonally
- COP: 1 to 3
 - COP 1 when too cold outside

- Subsurface temperature
 - constant year round
 - cooler in summer
 - warmer in winter
- COP: ~ 3.5 to 4.5

- Increased efficiency by sharing energy amongst buildings and added thermal inertia in the loop
- COP: ~ 3.5 to 8.9

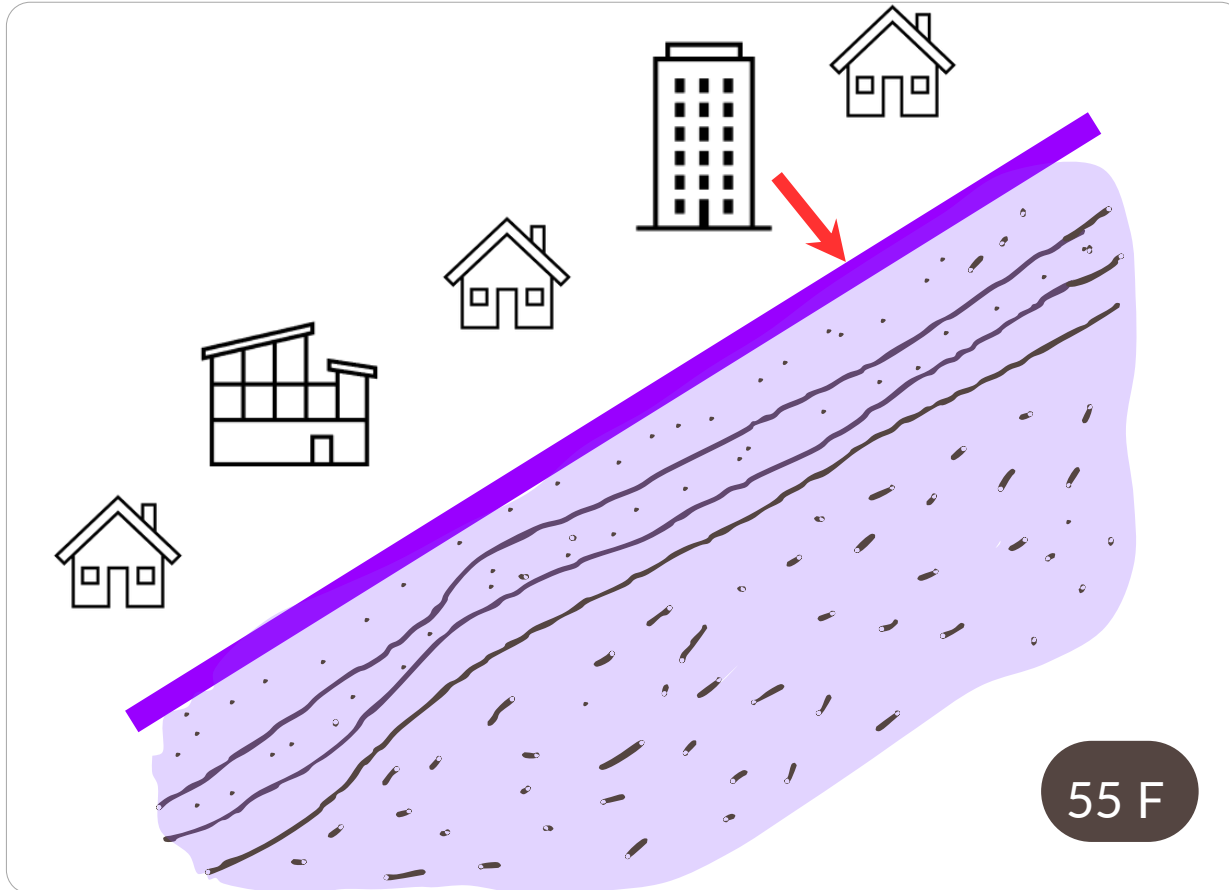
Heat pump efficiency differences

Heat pumps transfer heat from one place (source) to another (sink)

They are very efficient

On the coldest day, GSHP often use $\frac{1}{3}$ or less of electricity compared to ASHP

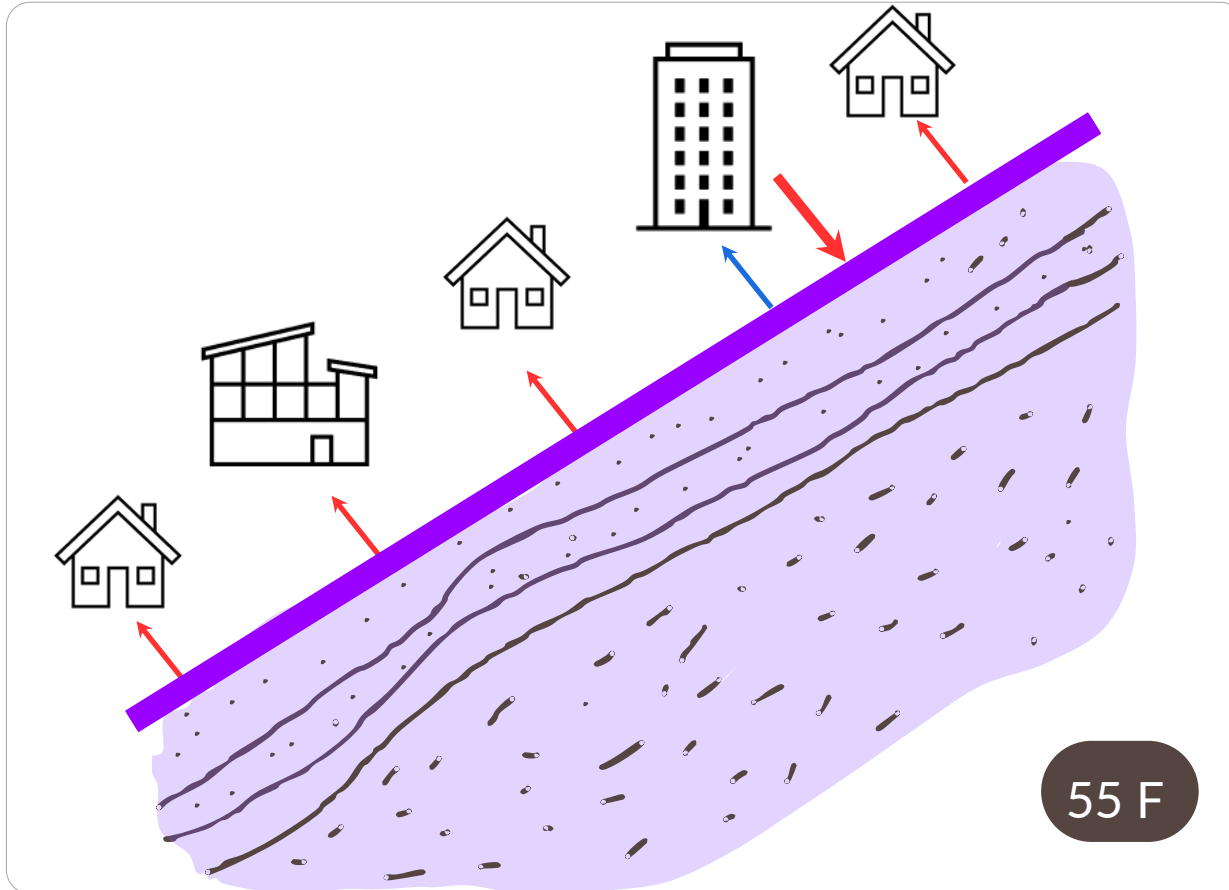
$$\text{Coefficient of performance (COP)} = \frac{\text{Energy Out}}{\text{Energy In}}$$



Geothermal Networks (single pipe ambient temperature loop) provide

SYNCHRONOUS cancellation of thermal needs which improves system efficiency

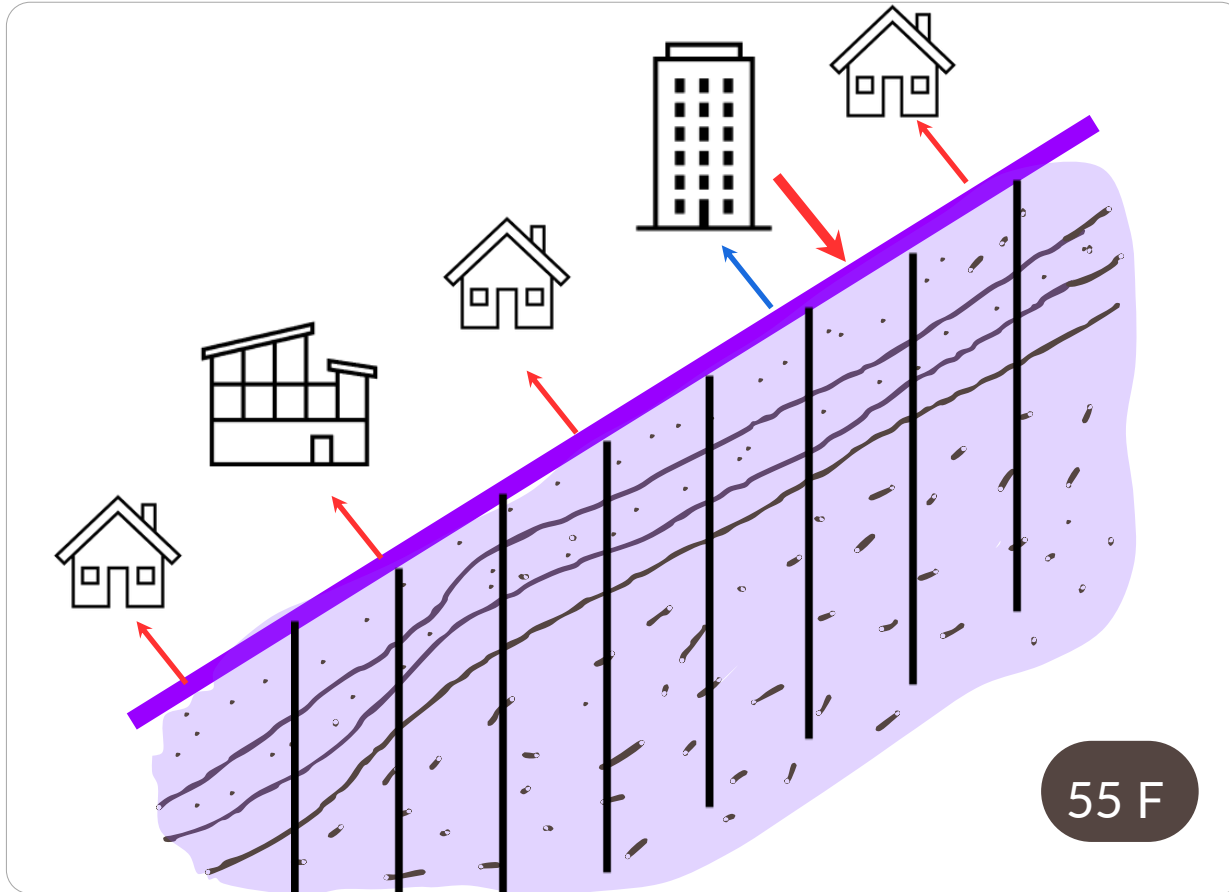
Effect observed at Framingham Spring 25'



Geothermal Networks (single pipe ambient temperature loop) provide

SYNCHRONOUS cancellation of thermal needs which improves system efficiency

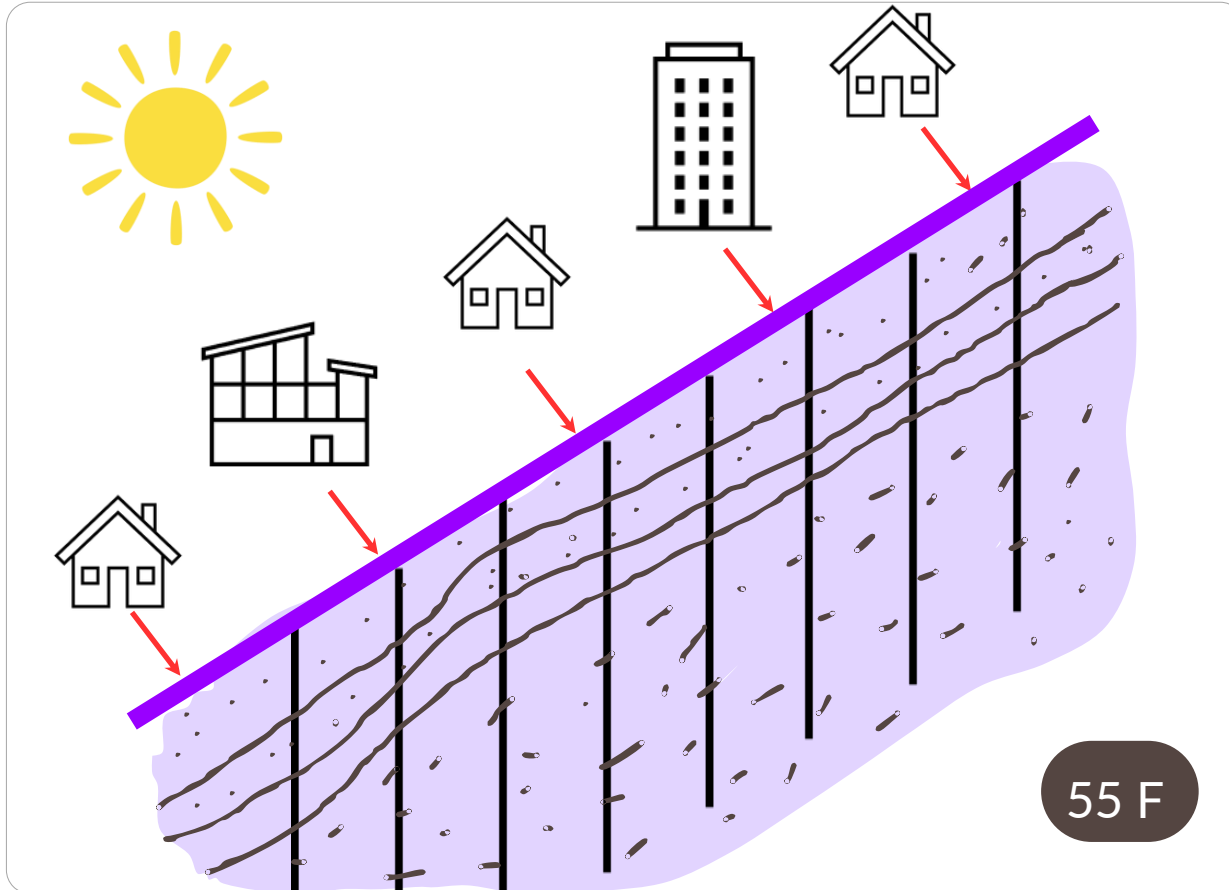
Effect observed at Framingham Spring 25'



Geothermal Networks
provide

Thermal storage
or asynchronous
cancelation of
thermal needs

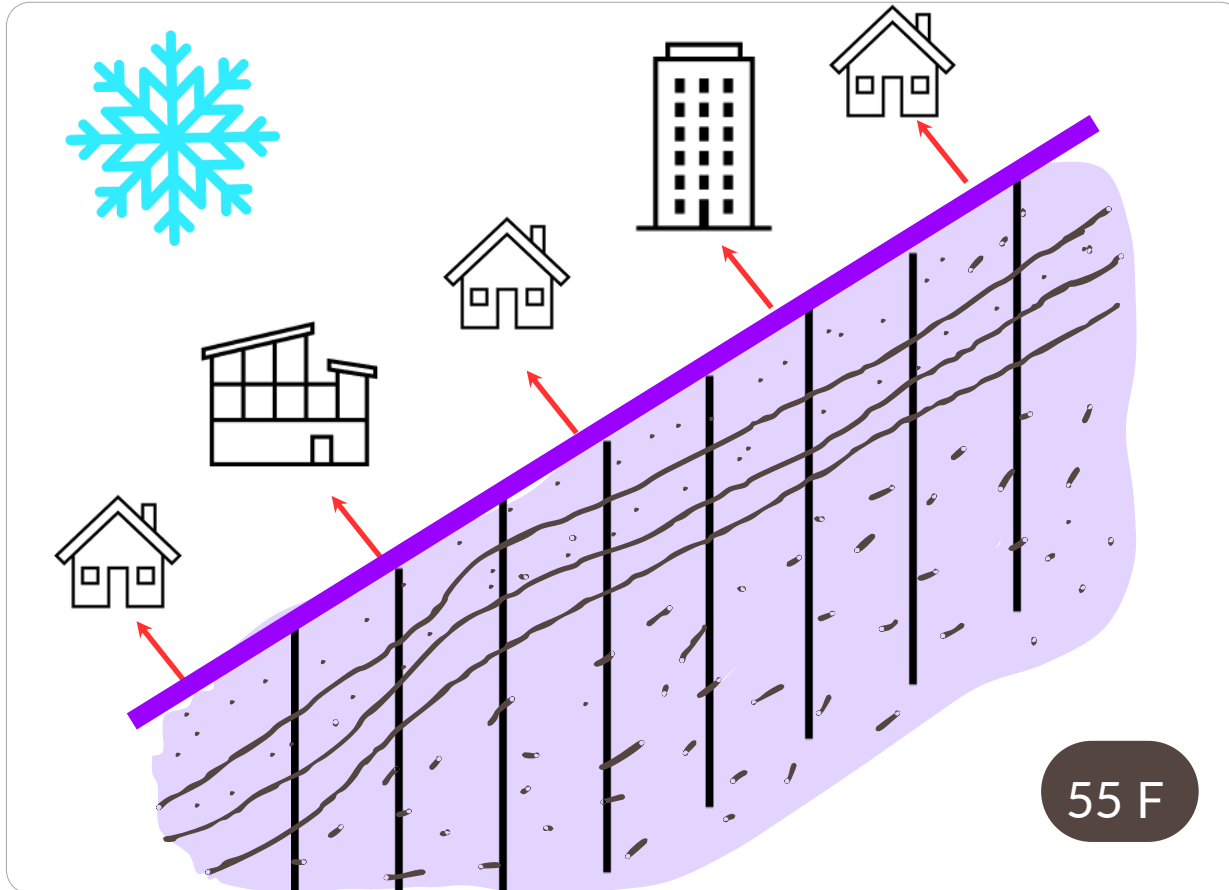
improves
efficiency



Geothermal Networks
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Thermal storage
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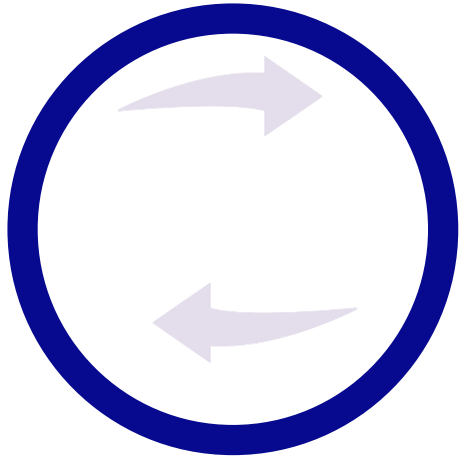


BUILDINGS: (GEOHERMAL HEAT PUMP)

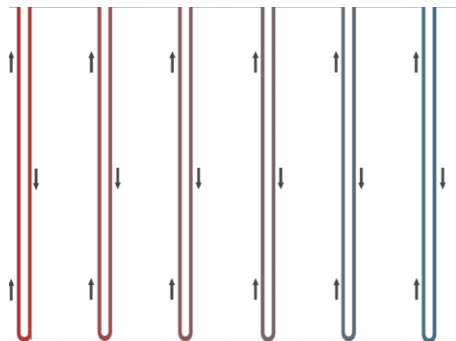
Geothermal
Network Main
Components

Each component
is OLD TECH

Together they are
NEW TECH

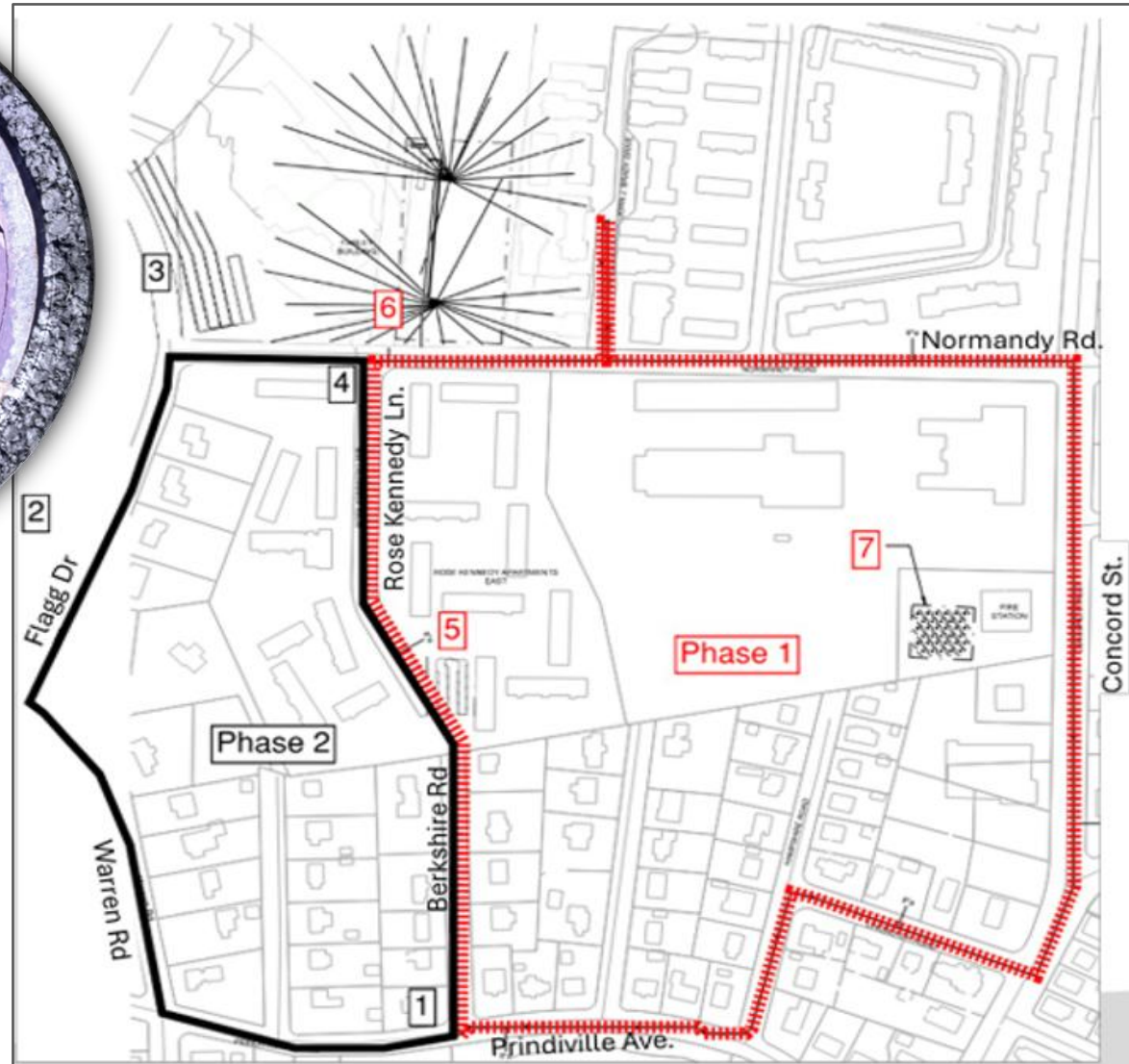


DISTRIBUTION LOOPS: (THERMAL ENERGY NETWORK)



THERMAL RESOURCES: (GEOHERMAL BOREHOLES) *Also ...*

WASTEWATER EXCHANGE
INDUSTRIAL WASTE HEAT
LAKES, RIVERS, PONDS
OTHER THERMAL ...



Framingham Geothermal Network set to Grow:

HEET, with partners, are just entering the construction phase of a U.S. DOE Award.

The initial design, which doubles the load of the network, indicates the potential to cut the construction cost per ton in half.

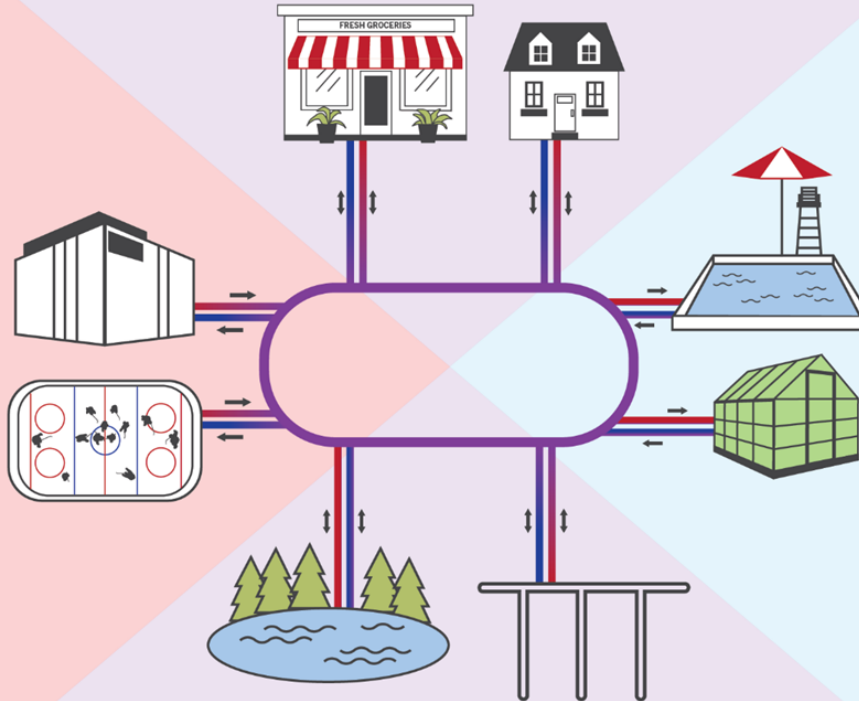
HEAT PRODUCTION & CONSUMPTION: VARIABLE DEMAND

Commercial buildings
Residential buildings
Municipal buildings

HEAT PRODUCTION

*Produces or 'rejects'
heat year-round*

Industrial waste heat
Data center
Ice rink
Subway tunnel



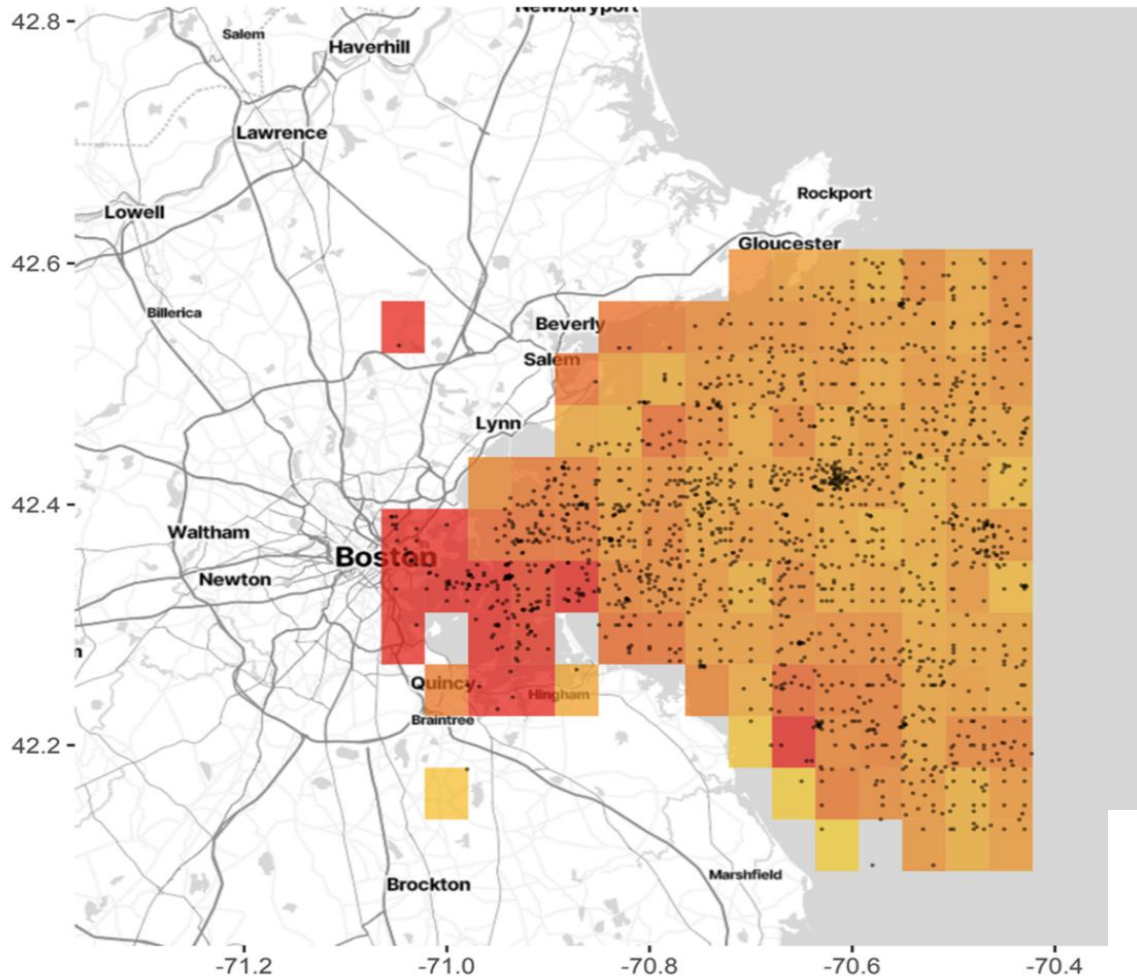
HEAT PRODUCTION & CONSUMPTION: FLEXIBLE SUPPLY

Bodies of water
Boreholes
Bedrock
Sewer systems

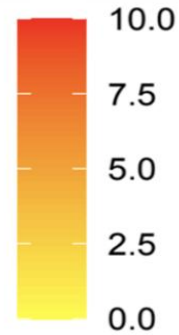
Geothermal Network (single pipe ambient temperature loop) Schematic

Magavi, Z., Alberto Escobar, A., and
Varela, I. (2024). [A Definitional
Taxonomy for \(Geo\)Thermal
Energy Networks](#), GRC
Transactions, Vol. 48.

Average Bottom Temperatures (deg C) 1912-2022



Temperature (C)

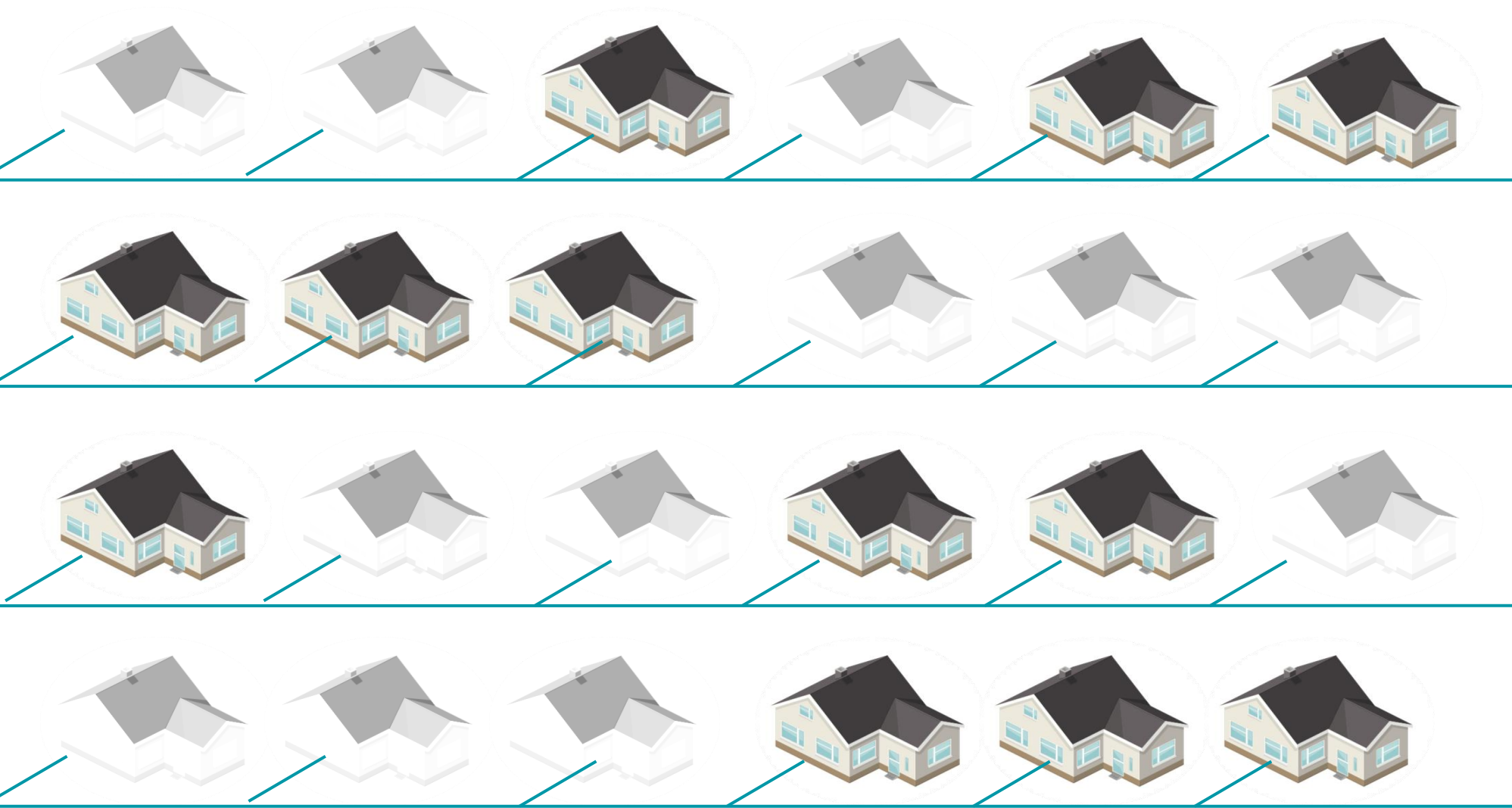


Geothermal Networks can **leverage untapped thermal sources**

According to NOAA data, Boston Harbor is 3.4 degrees Celsius warmer than in 1912.

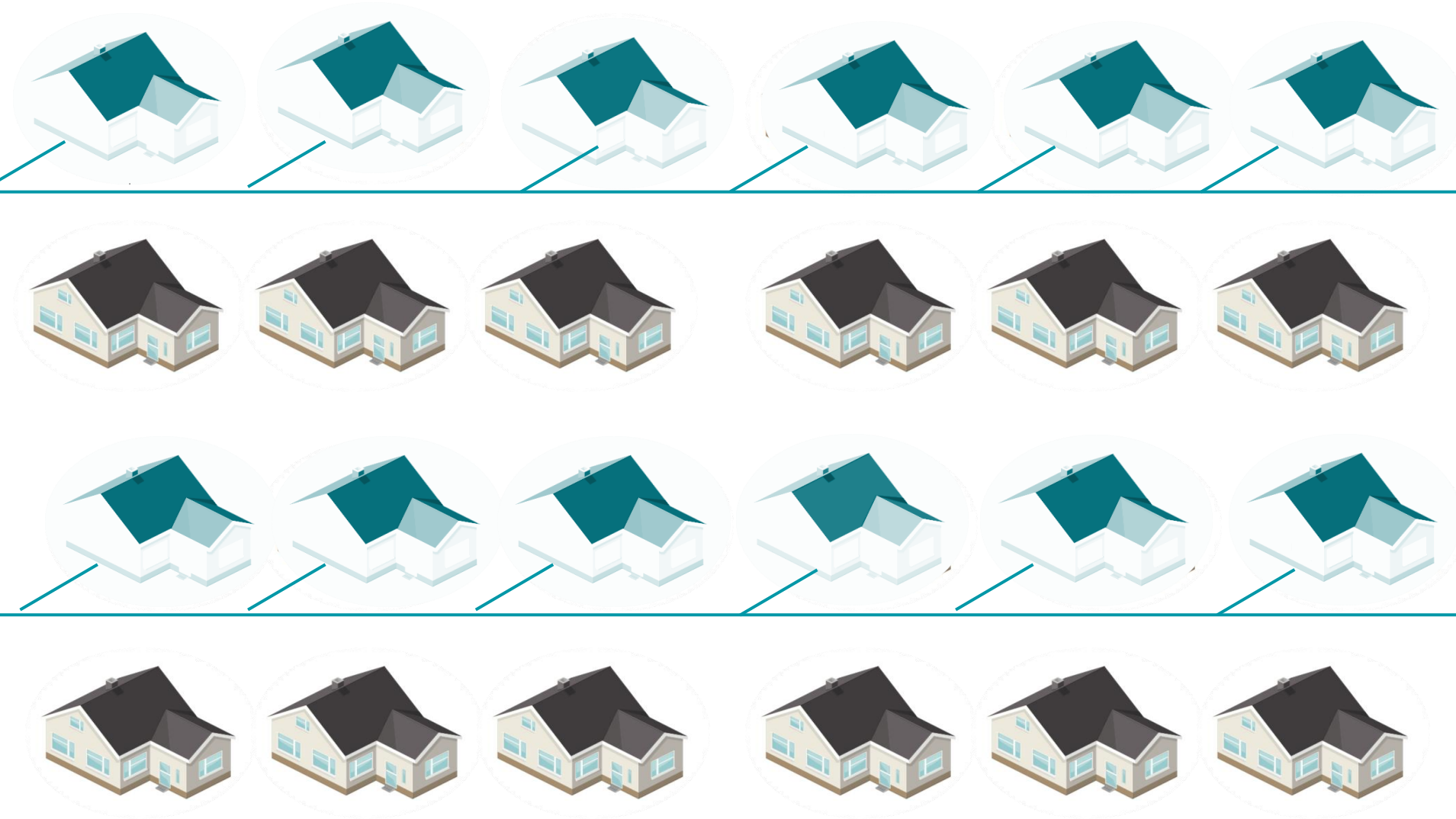
That is roughly enough heat for over 1 Million homes annually





Building by Building
Electrification off
of gas network
triggers utility
death spiral





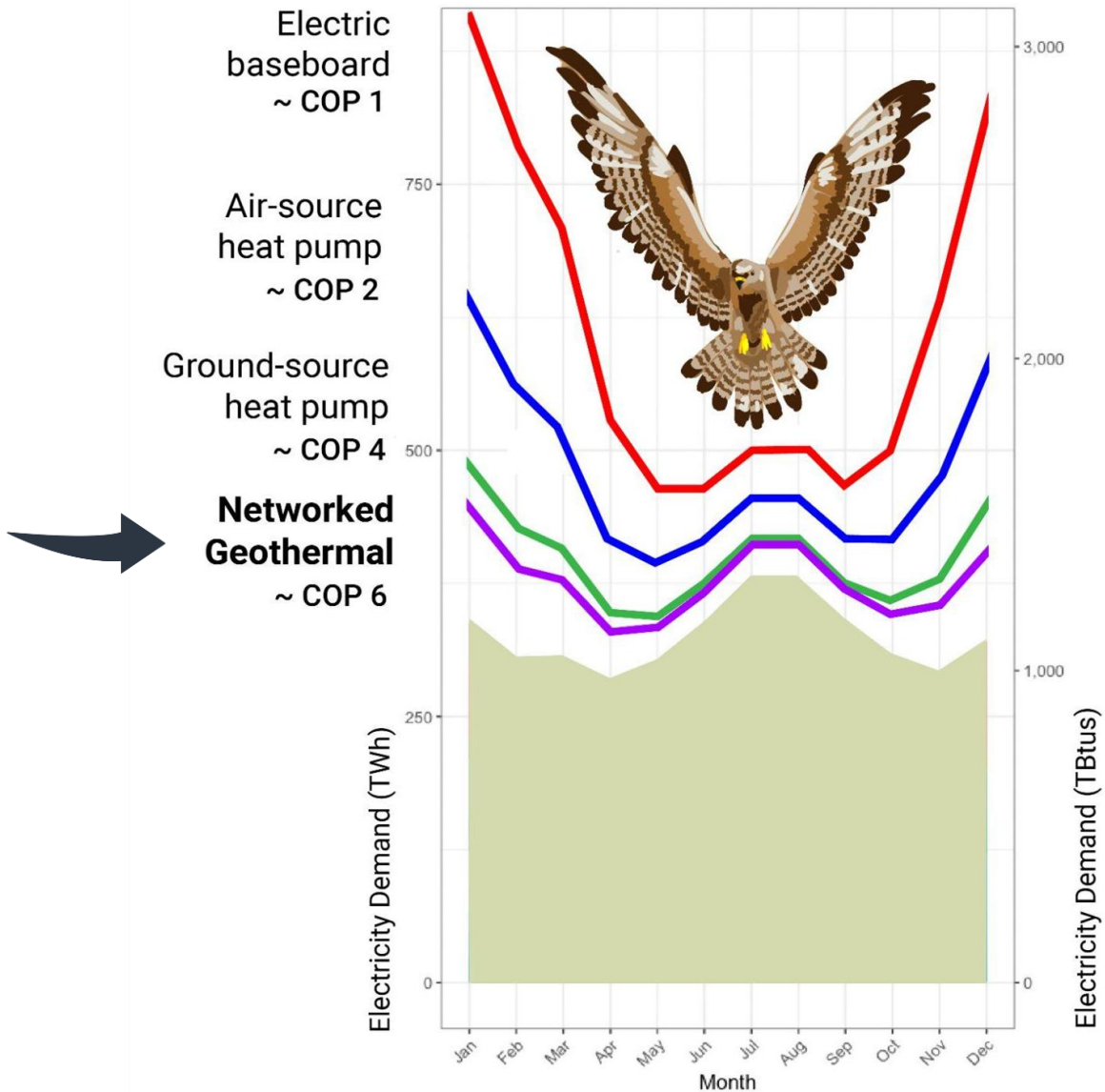
Gas to Geo Electrification:

Customers stay
with utility, energy
bills stay low

It's a modular and
scalable approach

The World Bank is
doing feasibility
studies at the
**10,000 building
scale for 7
countries**





GRID IMPACT:

The Falcon Curve
Showing future
U.S. Building
Electric Use

GENs reduce the
projected winter
peak electricity
demand

The 2050 Benefits from Deploying Geothermal Heat Pumps



Eliminate the need for up to 43,600 miles of new interregional transmission infrastructure – equivalent to 44 SunZia transmission projects



Reduce up to 410 GW of nationwide generation capacity requirements – bolstering seasonal US grid resilience



Eliminate more than 7 gigatons of carbon – equivalent to all U.S. emissions produced in 2022

Impact on the Electric Grid of Mass Deployment of GHP



Cumulative U.S. savings > \$1 Trillion

CO2E SAVED

7.34 MMTs



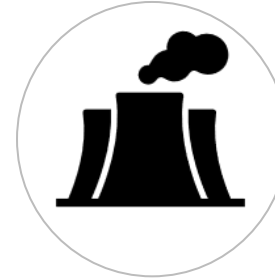
FEWER TRANSMISSION LINES

38% reduction



LESS GENERATION REQUIRED

13% reduction



FUEL COST SAVINGS

\$19 Billion/year



CHEAPER WHOLE SALE ELECTRICITY

12% reduction



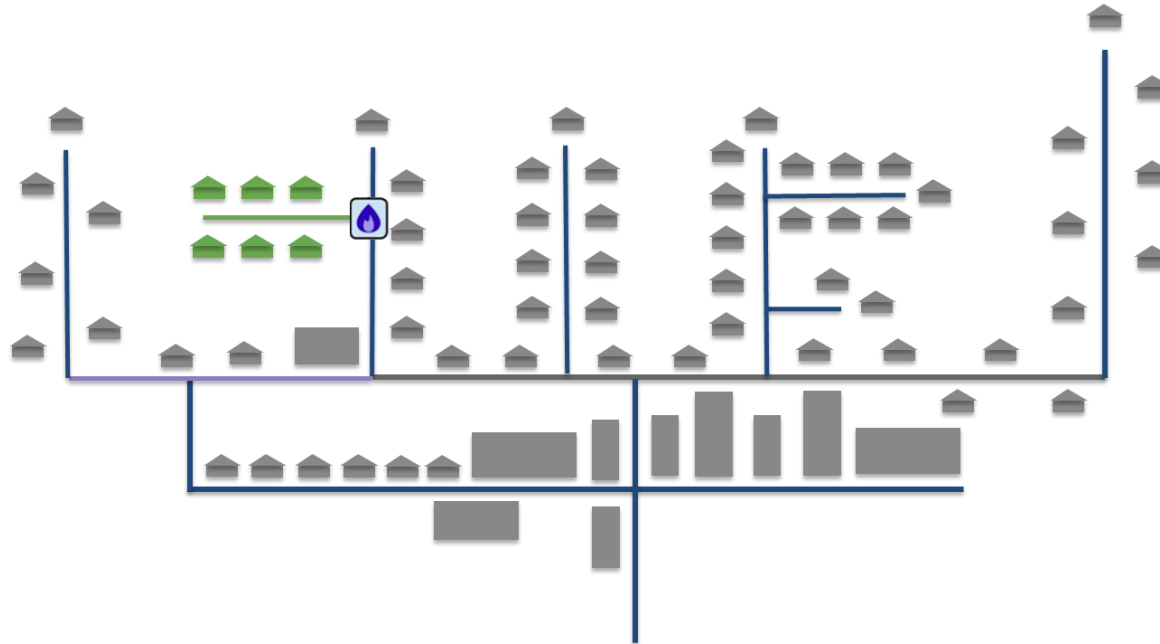
Massachusetts Impacts
2.14 TWh, 34% reduction



GRID IMPACT of Geothermal Heat Pump 'Mass' Deployment



HEET Proposal for a Managed Transition for Building Energy Modernization by Street Segments



Can the rollout of Geothermal Networks be optimized for

costs, timing, disruption, affordability, electric grid impacts, emissions, fair access

Goal Develop a tool to support optimization of the transition.



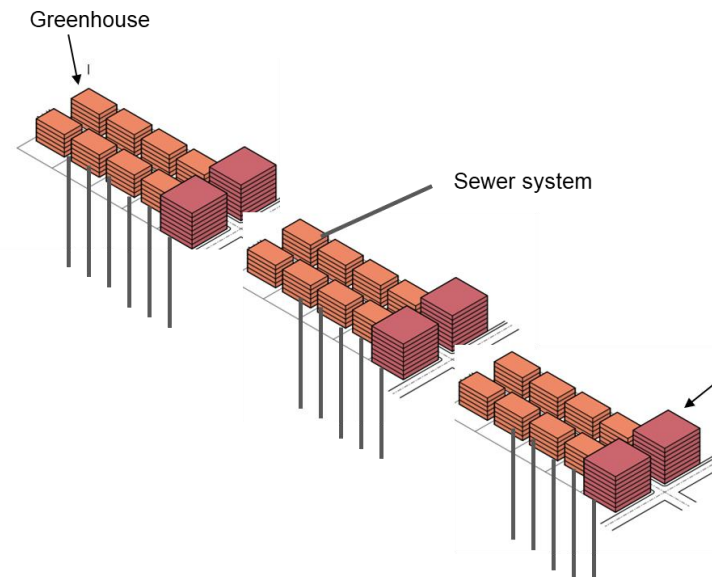
Core data needed

- Gas pipeline distribution system
pipe diameter, pressure, replacement year and cost.
Mains vs end of lines or rung of ladder
- Electric grid system hosting capacity
ID locations where substations would be needed
- Map large thermal sources and sinks
Lakes, rivers, harbor, data centers, ice rinks,
swimming pools, etc

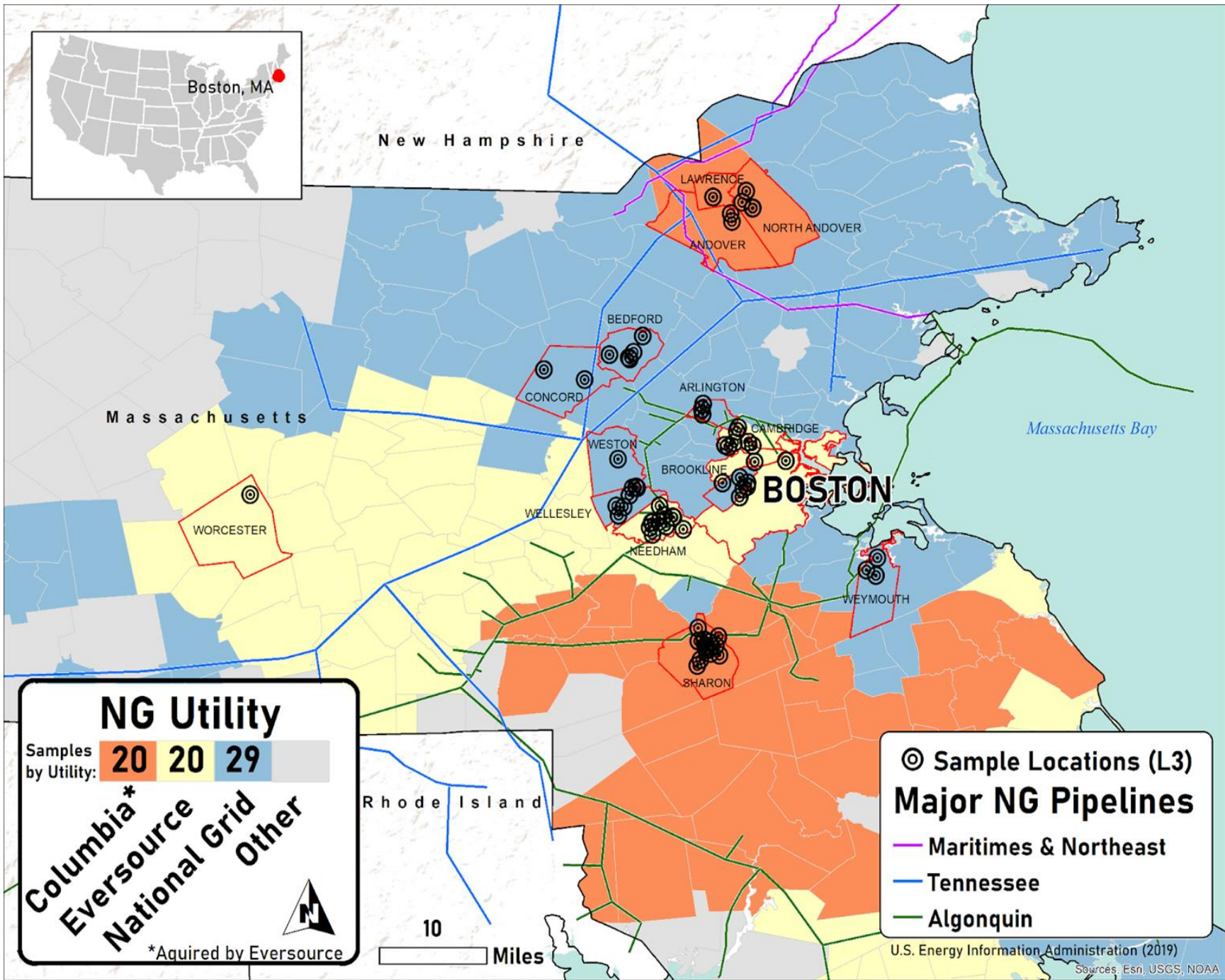
Can the rollout of Geothermal Networks be optimized?

Also informed by

- Building stock and thermal loads
- Geology
- Street infrastructure repair plans
- Density of buildings



Yes! with access to energy infrastructure data

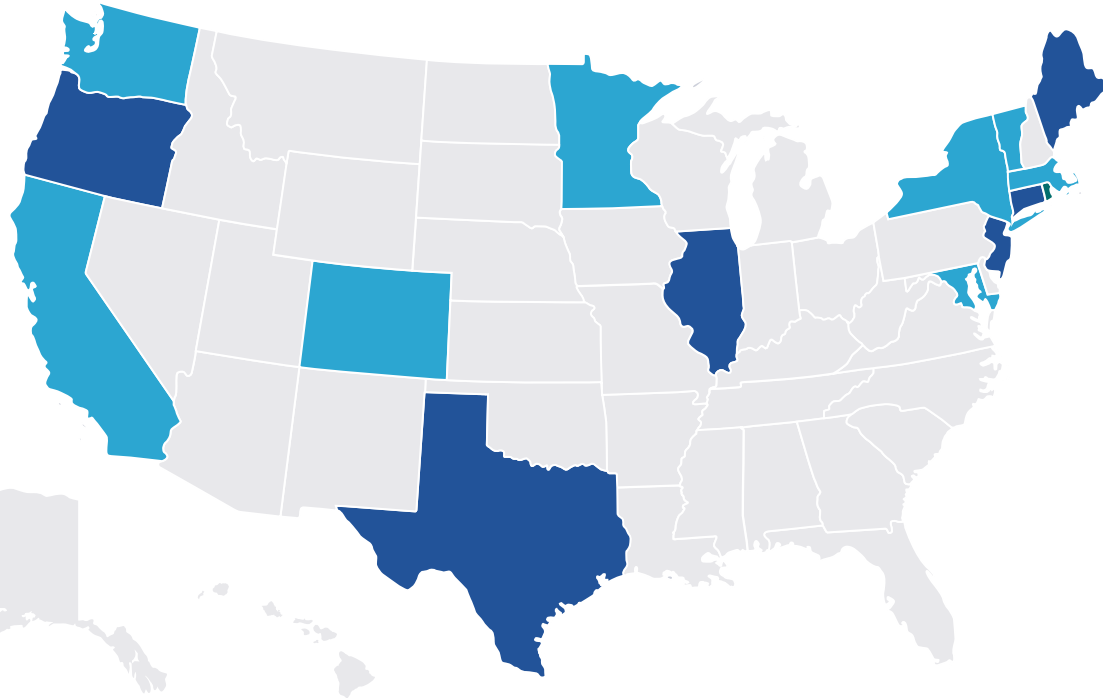


Example of
“island” in gas
grid:

City of Cambridge



Thermal Energy Network Legislation



MA: 2021, 2022, 2024, **2025**

MN: 2021, 2024, **2025**

NY: 2022, **2025**

CO: 2023, 2024

WA: 2024, 2025

MD: 2024

VT: 2024

CA: 2024

NJ: 2024 (study)

ME: 2025 (study)

CT: 2025

TX: 2025

IL: 2025

As of 11/6/2025

 Passed Legislation  Filed Legislation 2025

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Geothermal Networks (single pipe ambient temperature loops) provide

affordable, resilient, local, modular, stable, scalable thermal energy while minimizing electricity consumption and unlocking the utility model

the electric grid is one of the main beneficiaries of geothermal networks!



#ThinkThermalTogether

Break

Please be ready to start again in ~5 minutes

Facilitated Discussion

Facilitated Discussion Questions

1. Follow-up questions to the HEET presentation. For example, how do networked geothermal systems affect the electricity grid, grid modernization investments, and the ESMPs?
2. Follow-up questions to the EDC presentation. For example, how are the EDCs spending the IEP funds?
3. How will IEP be accounted for in the next cycle of ESMPs?
4. How is the IEP stakeholder working group evaluating the implications of IEP on electricity and gas costs, rate and bill impacts, and affordability?
5. How is the IEP stakeholder working group investigating ways to address impacts on EJ communities in the IEP?
6. Should gas LDCs play a role in ESMP planning and, if so, what role?
7. What lessons from the gas NPA framework discussions and proposal can be transferred to the discussion of NWAs in ESMP planning?
8. How can the GMAC, or individual GMAC members, support the IEP stakeholder working group? How should communication flow between GMAC and IEP?

Close and Next Steps



Upcoming meetings:

Date	Time	Meeting	Topic
December 12 th	9:00 – 1:00 PM	Public Event	The Electric Grid Through a Municipal Lens Pt. 2
December 18 th	9:30 – 10:30 AM	ExCom	2026 Planning – Agendas for GMAC meetings
January 29 th	1:00 – 3:00 PM	Council	Intro to Forecasting/Obj. 1 Load Growth Areas

Thank you all for a productive year! Wishing you all a happy holiday season. 😊

