CONNECTICUT LEAGUE OF CONSERVATION VOTERS EDUCATION FUND

THERMAL ENERGY NETWORKS

AFFORDABLE HEATING & COOLING TECHNOLOGY

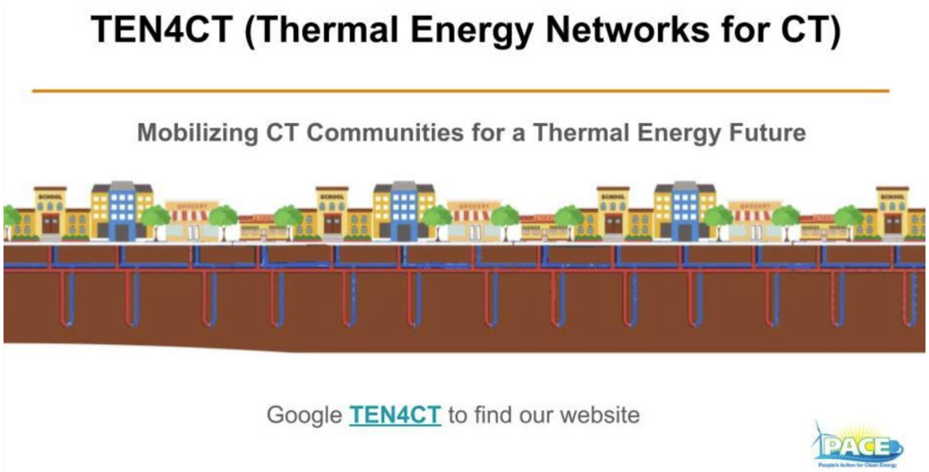
Thermal Energy Networks (TENs) are the most efficient systems available to deliver climate-friendly heating and cooling to homes and businesses.

A COMMUNITY SCALE SOLUTION

They work by connecting multiple buildings through shared loops that allow them to exchange heating and cooling. When paired with water source heat pumps, TENs greatly improve efficiency by capturing and reusing waste heat. This approach makes building electrification more effective and accelerates the shift to clean energy.

EQUITABLE, HEALTHY, LOW-COST ENERGY

- **Cost savings:** TENs are exceptionally efficient and use less electricity than individual heat pump systems, which reduces stress on the grid. They also can stabilize and lower energy bills by avoiding the volatility of fossil fuel price spikes.
- **Lower pollution:** Without combustion, indoor and outdoor air is safer to breathe. GHG emissions are largely eliminated.
- **Equitable access:** Since TENs work at a neighborhood and community level, all buildings can access zero-emission heating and cooling. Renters and low and moderate income customers may not have to pay for the upfront costs of installations.
- **Local jobs:** TENs provide a pathway for gas utility workers to transition to clean energy jobs, using the skills they already have to install the networks.



LEGISLATIVE PROPOSALS

- Fund the CT TEN Grant and Loan Program with a focus on vulnerable community deployment.
- Create other financing mechanisms: gas pipe replacement funds, state tax incentives, a thermal energy fund.
- Include labor transition, training, and recruiting plans for thermal energy network projects.

REPLACE INEFFICIENT WINDOW AC UNITS

TENs are also a cooling technology.

Connecticut summers are getting hotter— and more dangerous. Many rely on costly window AC units, while vulnerable communities often lack cooling entirely. TENs offer a safer, more efficient solution.

MORE INFORMATION

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