

Cities account for 70% of the world's energy consumption. Almost 50% of the energy is used for heating or cooling. District energy systems are one of the most effective ways to mitigate climate change.

UNEP, 2015

At Enwave, we create the most **resilient, efficient** and **sustainable** district energy networks in North America. These intelligent networks connect businesses, residences and institutions within shared energy systems that optimize green energy sources, adapt to energy demands, and withstand unforeseen events.

District Energy systems help cities achieve:

- **GHG Emissions Reduction** (30-50% reduction in primary energy consumption)
- **Resilience & Access to Energy** (robust infrastructure & independence from external pressures such as fuel price shocks)
- **Green Economy** (use of local & renewable resources, off-peak grid usage, etc.)

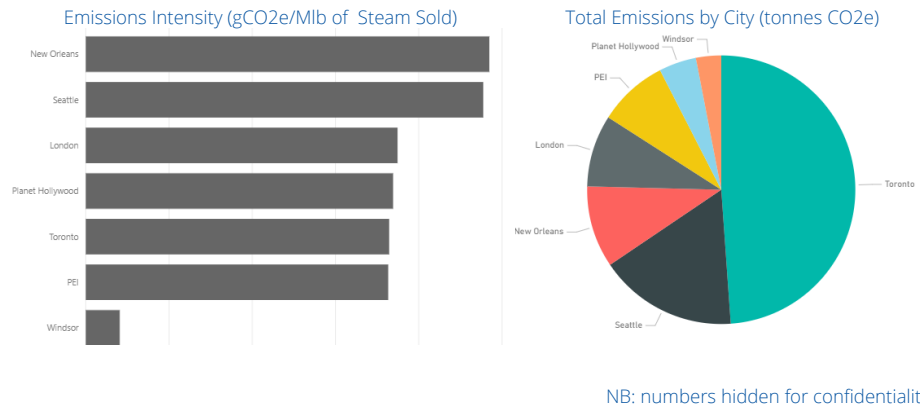


Key Accomplishments

Consolidated, automated, and enhanced presentability of KPIs of all Enwave plants across North America via Power BI. This entailed learning a business analytics tool from scratch, and using it to create visualizations that can help Enwave make more meaningful analyses such as comparing plant performances across the continent.

Created a Carbon Inventory for Enwave's very first sustainability report. The dataset accommodates for the different energy inputs of each plant, allowing ease of computing GHG emissions in the future. Finally, emissions intensity is now incorporated in the KPIs, after having integrated both these projects together.

Power BI Snapshot



SDG Contribution



Key Takeaways

When it comes to efficiency and optimization, sustainability and engineering are indistinguishable.

While data analytics and business intelligence can be quite intimidating, learning it is not only pivotal for professional development, but also for understanding the ins and outs of a business.

There are two ways to transform our global economy from carbon-intensive to green; one is by cessation (as COVID-19 lockdowns first demonstrated) and the other is by harnessing the omnipresent replenishing resources of our earth.