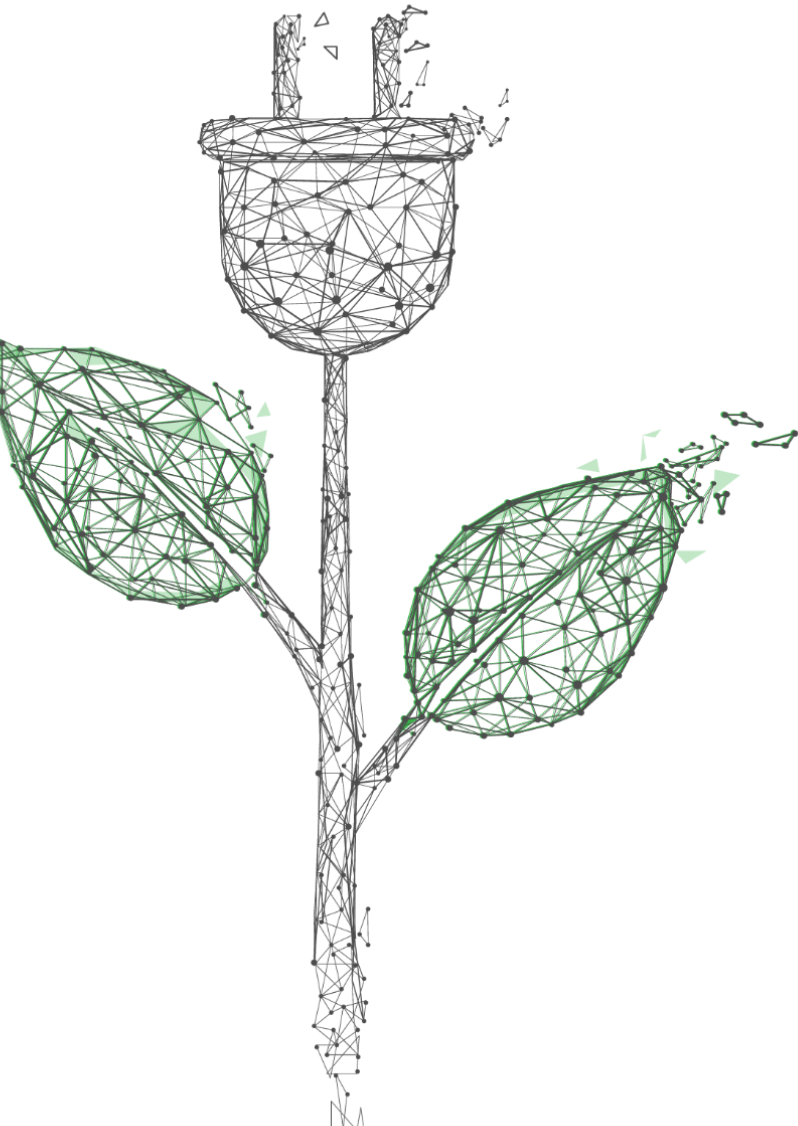


CleanTekCanada
Clean Air Partnership

Agenda



Ian Storey, I.B. Energy Solutions

Moving to Net Zero Carbon within Municipal Facilities and its Connection with Advancing Community Net Zero Carbon Developments

Kory Chapelle, CleanTek:

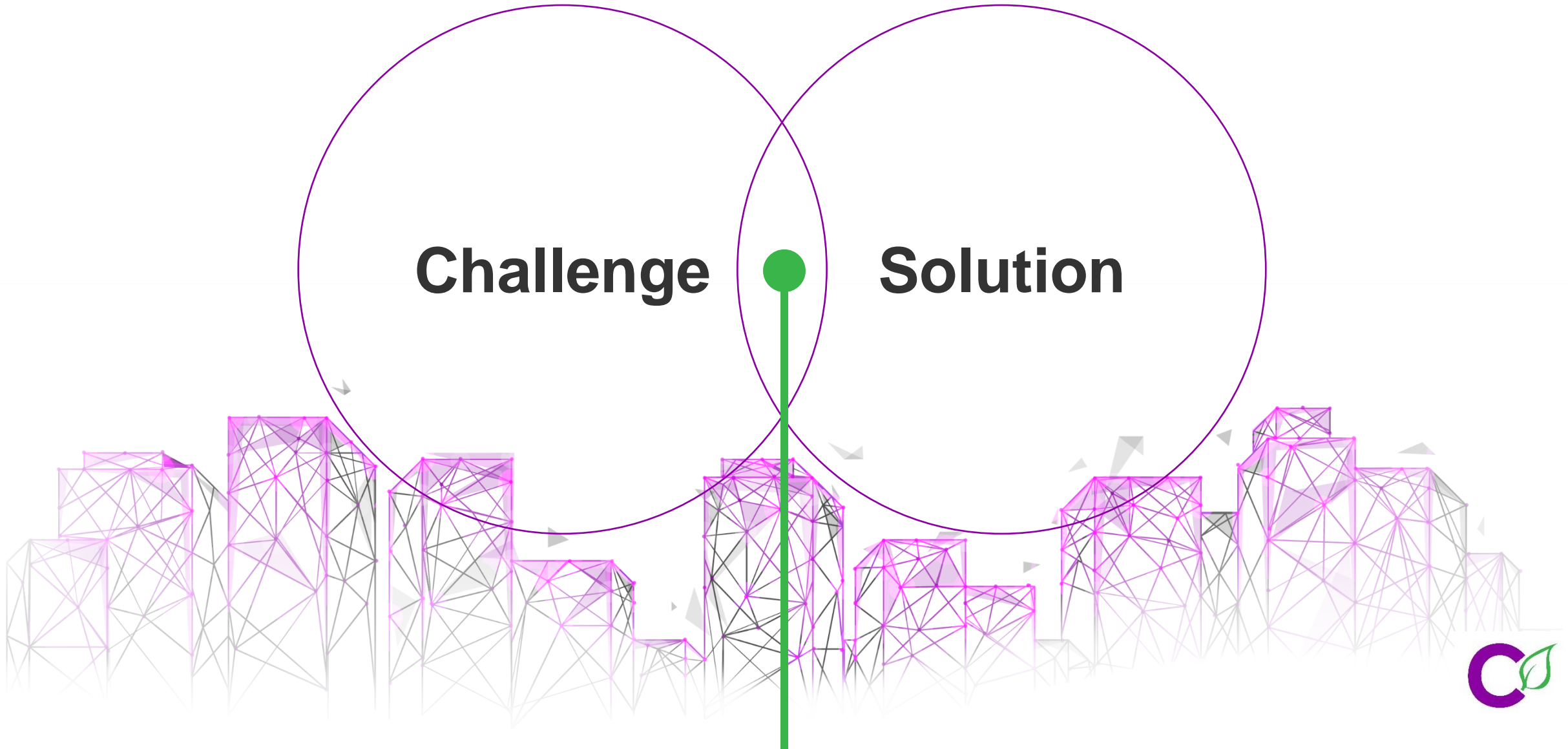
Lessons Learned (so far) from California's Distributed Energy Transition

Christian Rinomato, Rinomato Group

Alignment Across Real Estate and Energy Developments



Net Zero Push



Established Findings



An expert partner for businesses, governments and organizations around the world.

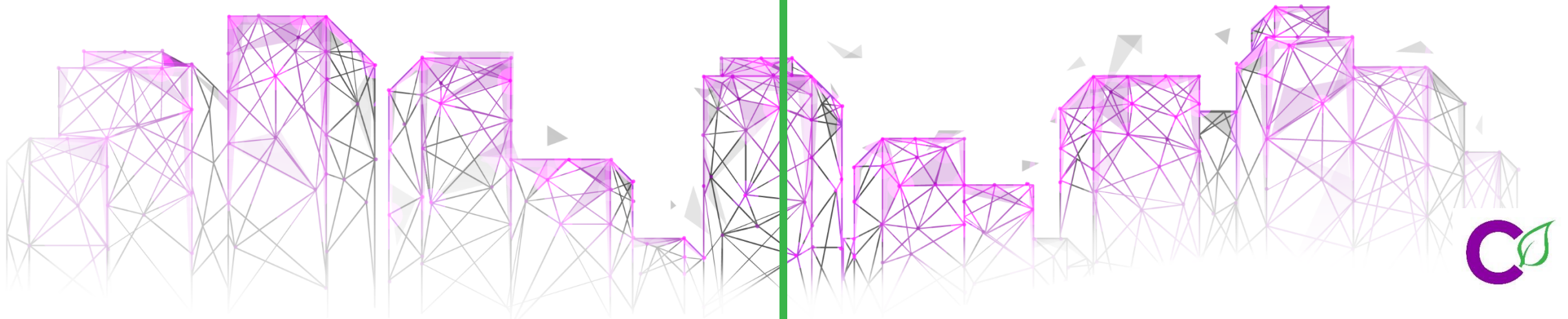
“Many organizations have environmental policies and know that they should reduce carbon emissions from their operations but **miss the opportunity to embed these principles in refurbishment projects**”

Reference: Carbon Trust, *Low Carbon Refurbishment of Buildings: A Guide to Achieving Carbon Savings from Refurbishment of Non-Domestic Buildings*, June 2008)

Most Common Municipal Approach for EB

Asset Management Plans drive refurbishments based upon: New Version of the Same Equipment

- Enhancements not a direct consideration
- Same conventional design | New equipment
- Brand new 20+ year old design instead of Re-engineering optimal solution



Financial Sustainability

HOW WE USE ENERGY: LESS IS MORE

Improvements in the efficiency with which we use energy offer the **biggest opportunities** to reduce energy consumption—and CO₂ emissions—while saving money and increasing productivity at the same time.

Efficiency improvements are also **far and away the most cost-effective** among the solutions to the climate crisis and can be **implemented faster** than any of the others.

The huge cost savings and CO₂ reductions from improvements in efficiency are not speculative; they are real.

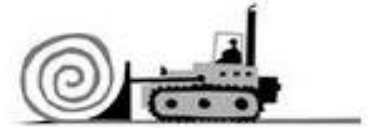
Al Gore, Our Choice 2009

OUR CHOICE

A Plan to Solve the Climate Crisis

AL GORE

A ROAD MAP FOR NATURAL CAPITALISM



Business strategies built around the radically more productive use of natural resources can solve many environmental problems at a profit.

BY AMORY B. LOVINS,
L. HUNTER LOVINS,
AND PAUL HAWKEN

Harv Bus Rev. 1999 May-Jun;77(3):145-58, 211.



Energy Management



Government
of Canada

Gouvernement
du Canada

MENU ▾

[Canada.ca](#) > [Natural Resources Canada](#)

Dollars to \$ense Energy Management Workshops

Waste Out

Efficiency

Renewables



Emerging Trends

Net Zero Ready Facilities Under Construction in PEI opening in 2021 and 2022.

Operating Designs at $<10 \text{ ekWh/ft}^2$

Context

ENERGY STAR Median for Rinks = 43.6 ekWh/ft^2

Positioned to become:
Zero Energy Building (Rink)



Check out Net Zero Ready in ORFA's Facility Forum Fall 2020 available online

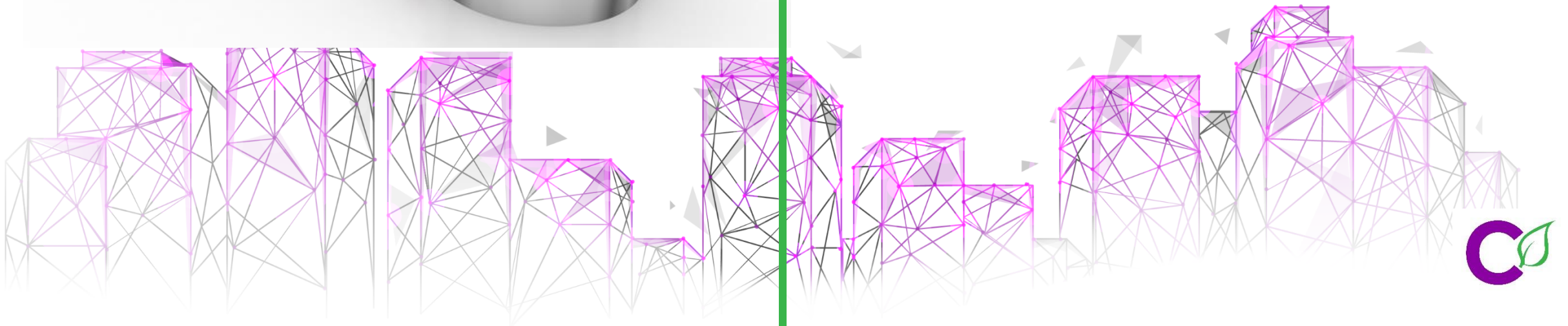
Aligned Policies

Net Zero



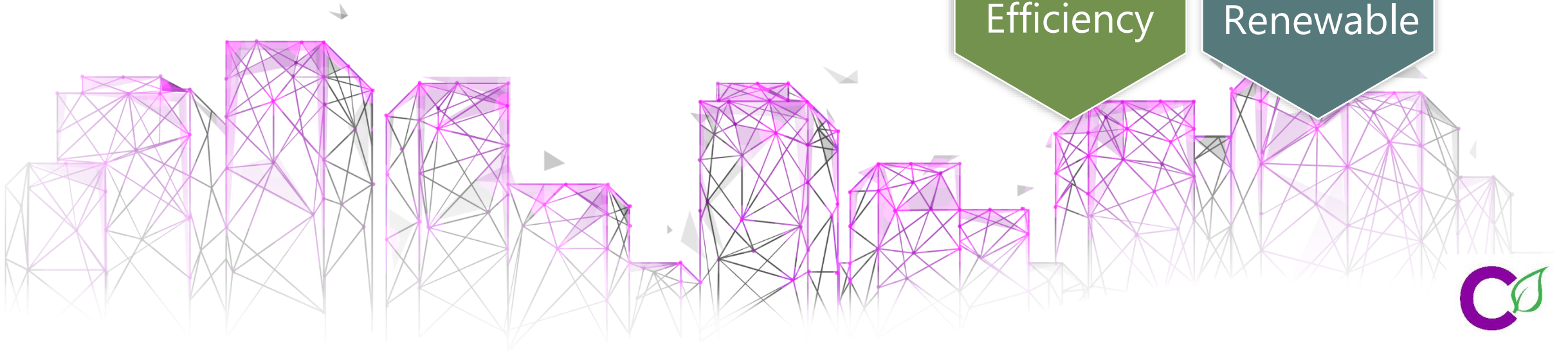
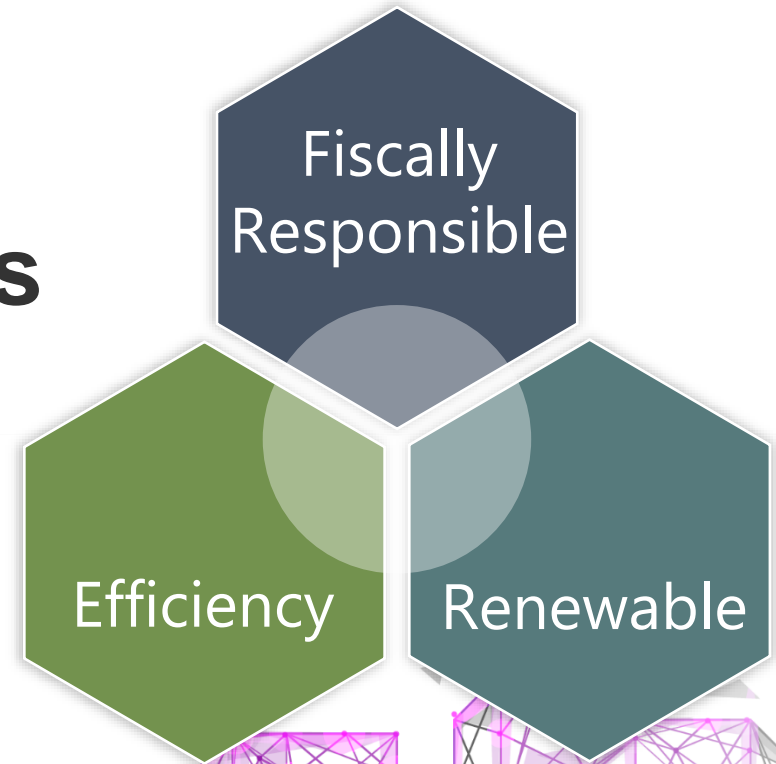
Sacrifice Net Zero for Sq. FT

**Restrictive
Procurement Policies**



Leading by Example

Our Projects



California Success

Early 2000s

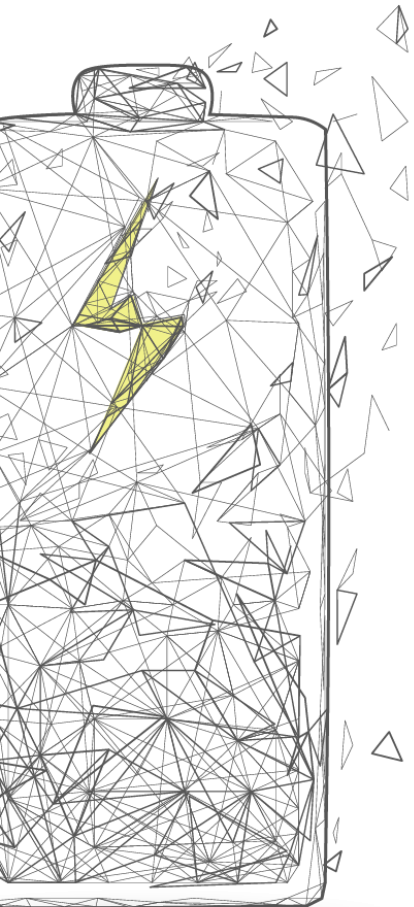
Investing in Infrastructure

2006

Policy Changes & Incentives

2020-Future

Distributed Power



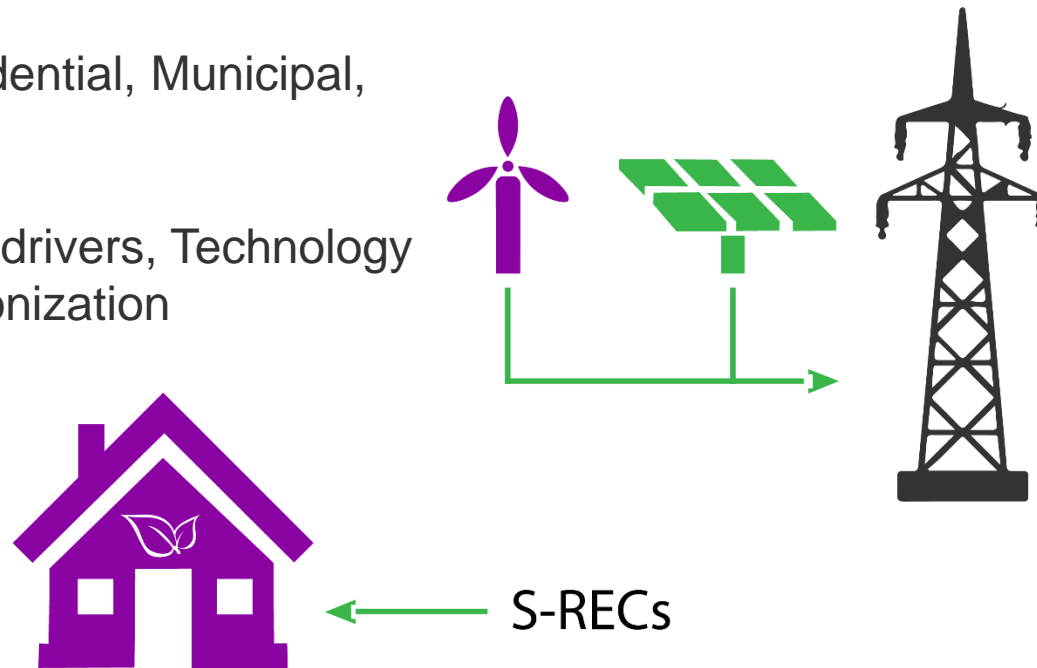
Infrastructure

Distributed resources produce energy that flow through the grid. In California, 33% of that energy is renewable.

In Canada, 16% of produced energy on GRID is renewable.

Funding- Federal, Provincial, Municipal, Utility, Private Sector

Economic Development drivers, Technology Advancements, Decarbonization



Policy Changes

Investment Tax Credit

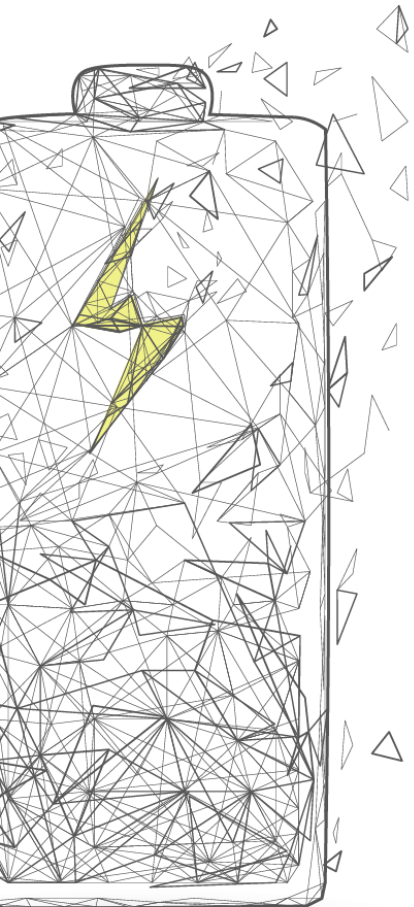
A percentage given to the owner of a renewable energy system as an incentive to offset cost. Solar Recs as well

Depreciation

Another incentive that helps offset project cost.

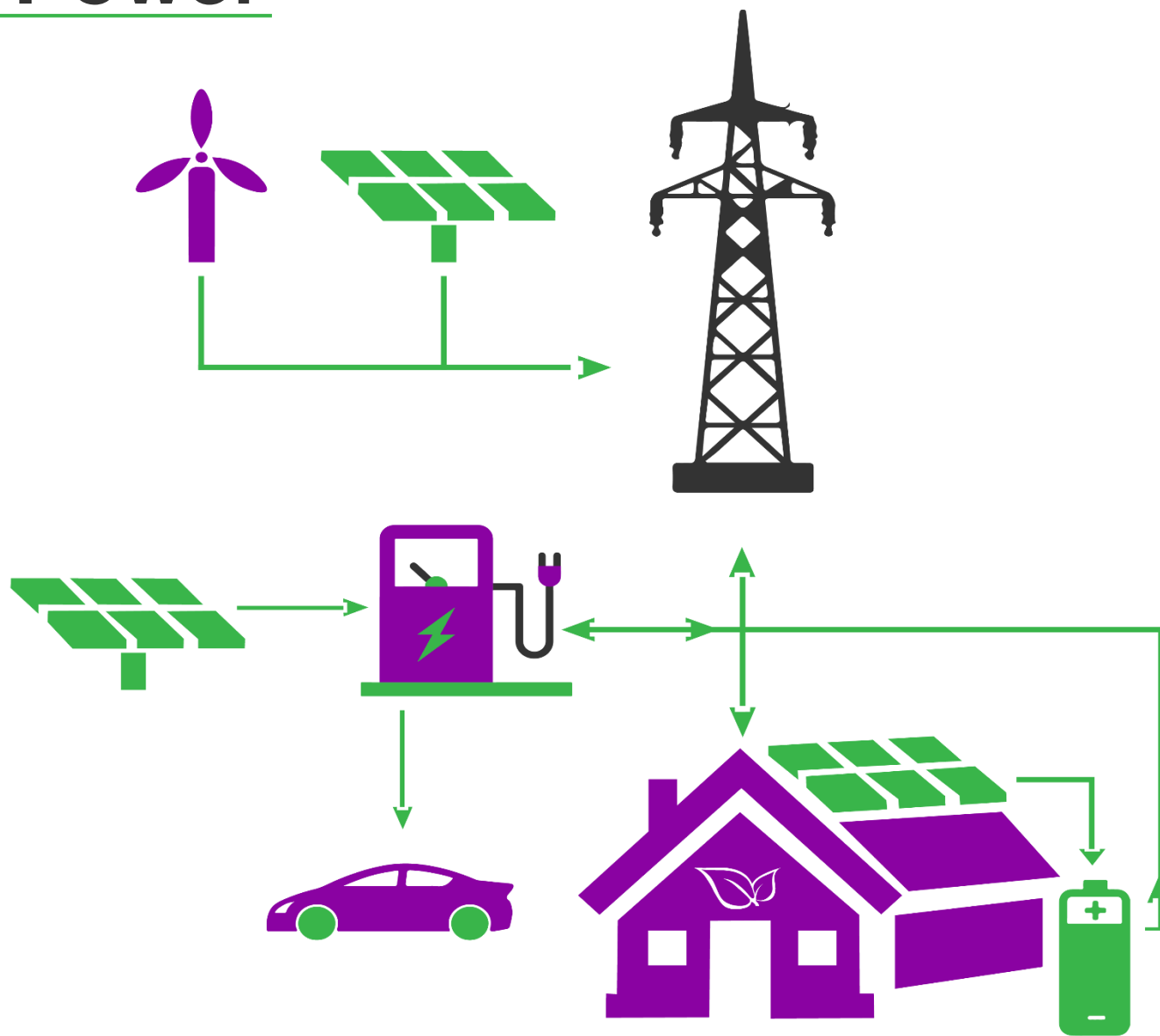
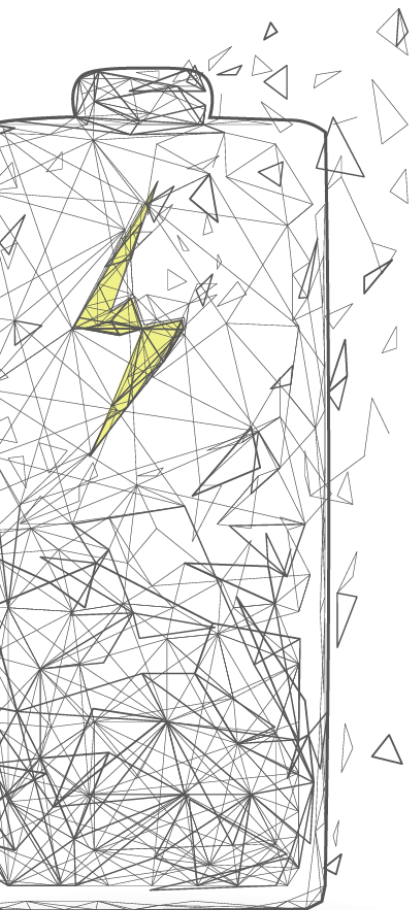
Initiatives

Recently put in place, all new home developments require solar to supplement the GRID.



Distributed Power

CleanTek



Our Process

Energy Partner from Day 1

Engineering, Design & Financing

Commissioning

Servicing

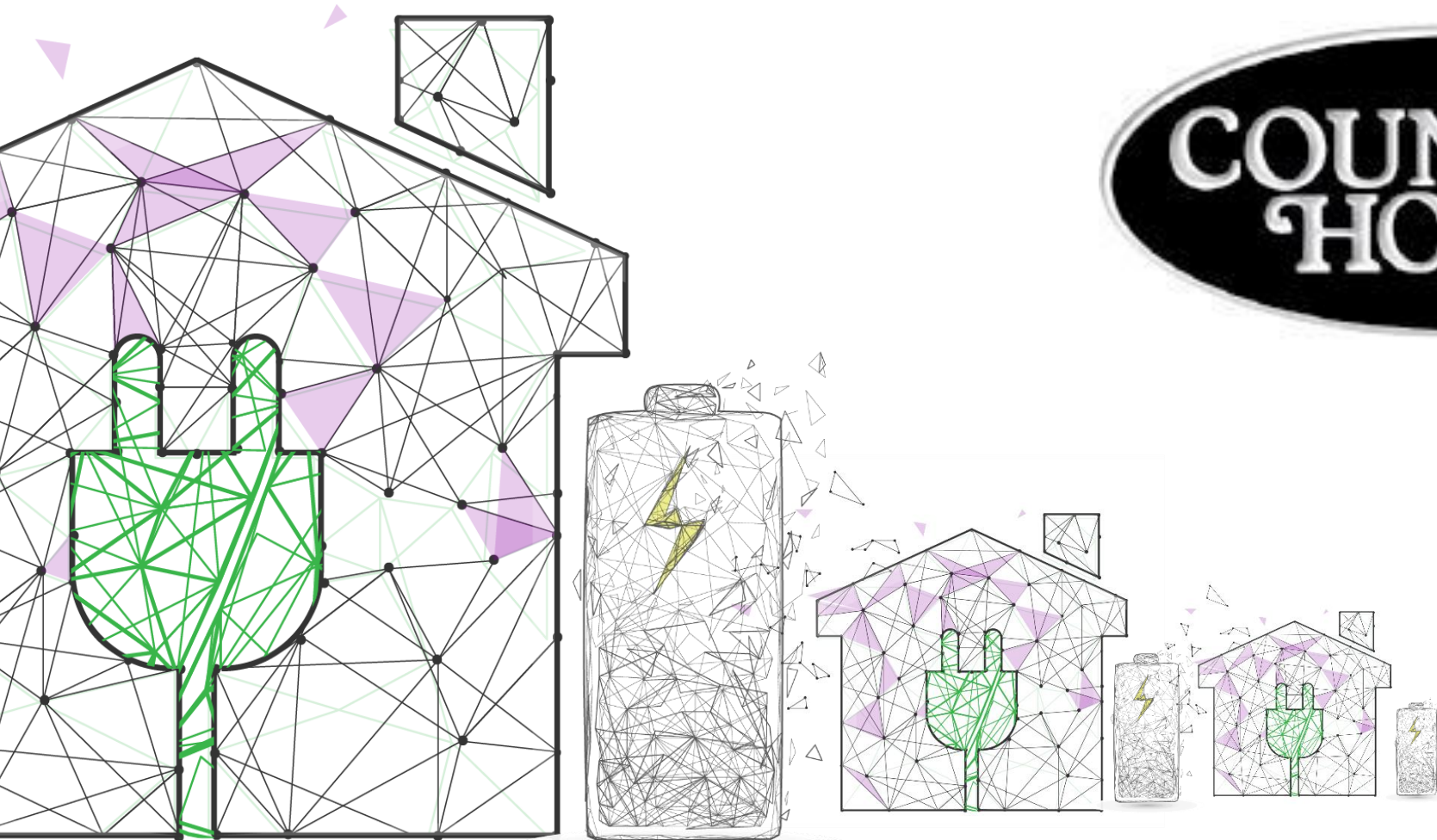
From start to finish and beyond, we are here to be your resource!

Our business model allows us to work with anyone.

After all due diligence and project milestones are set, we take on the cost and management of installation

“And Beyond” - We monitor and service the equipment for the term of the agreement.

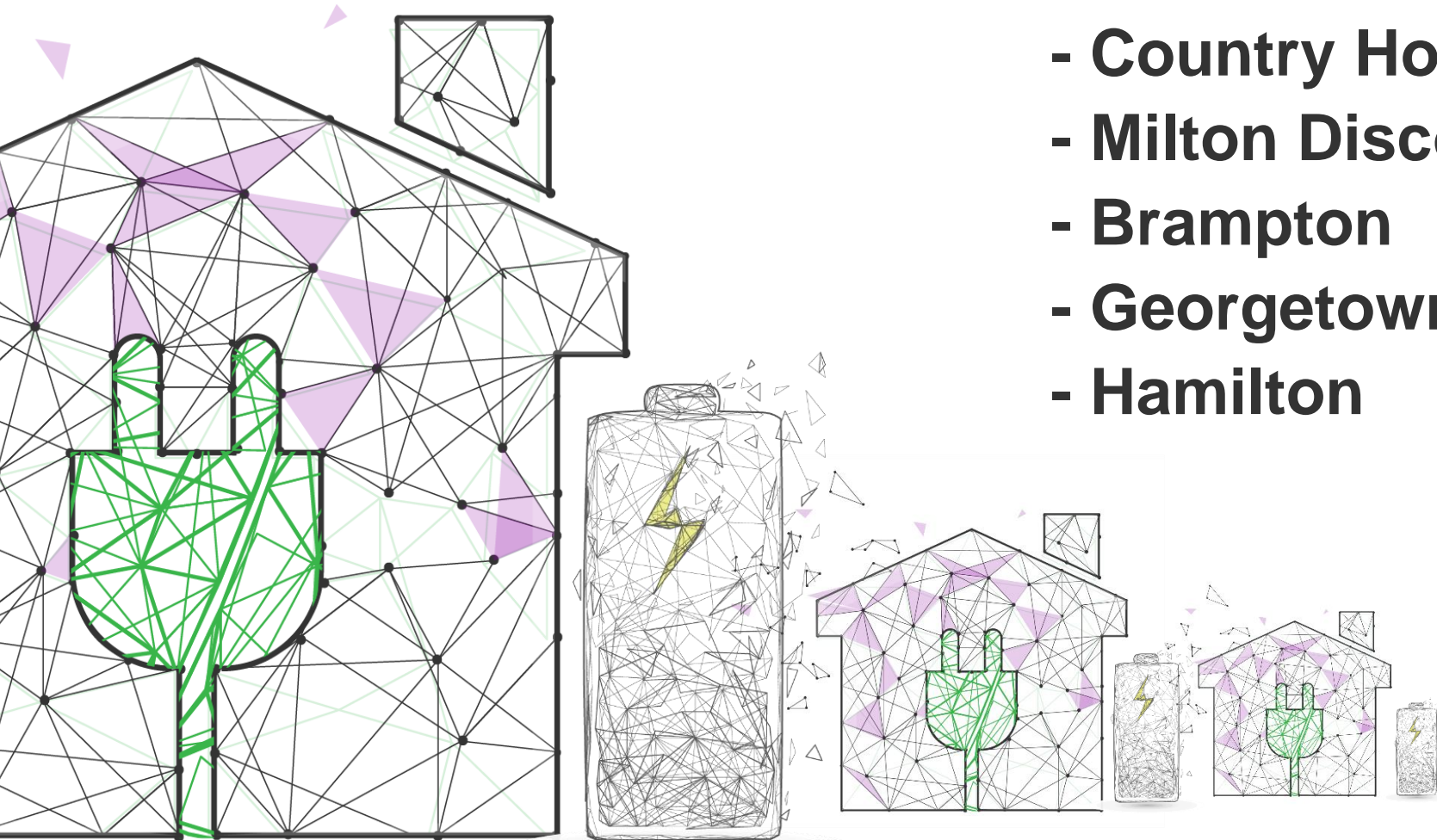
Developments



Developments



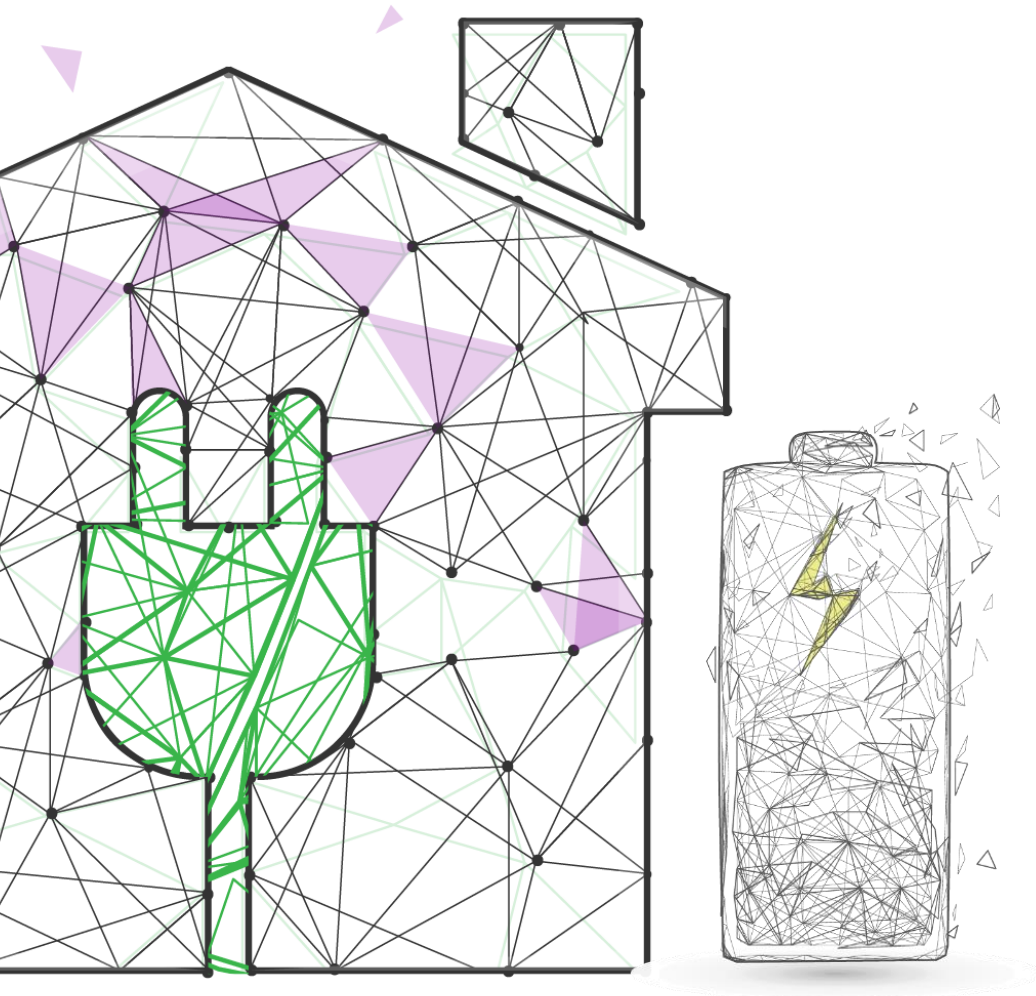
- Country Homes HQ & Properties
- Milton Discovery House
- Brampton
- Georgetown
- Hamilton



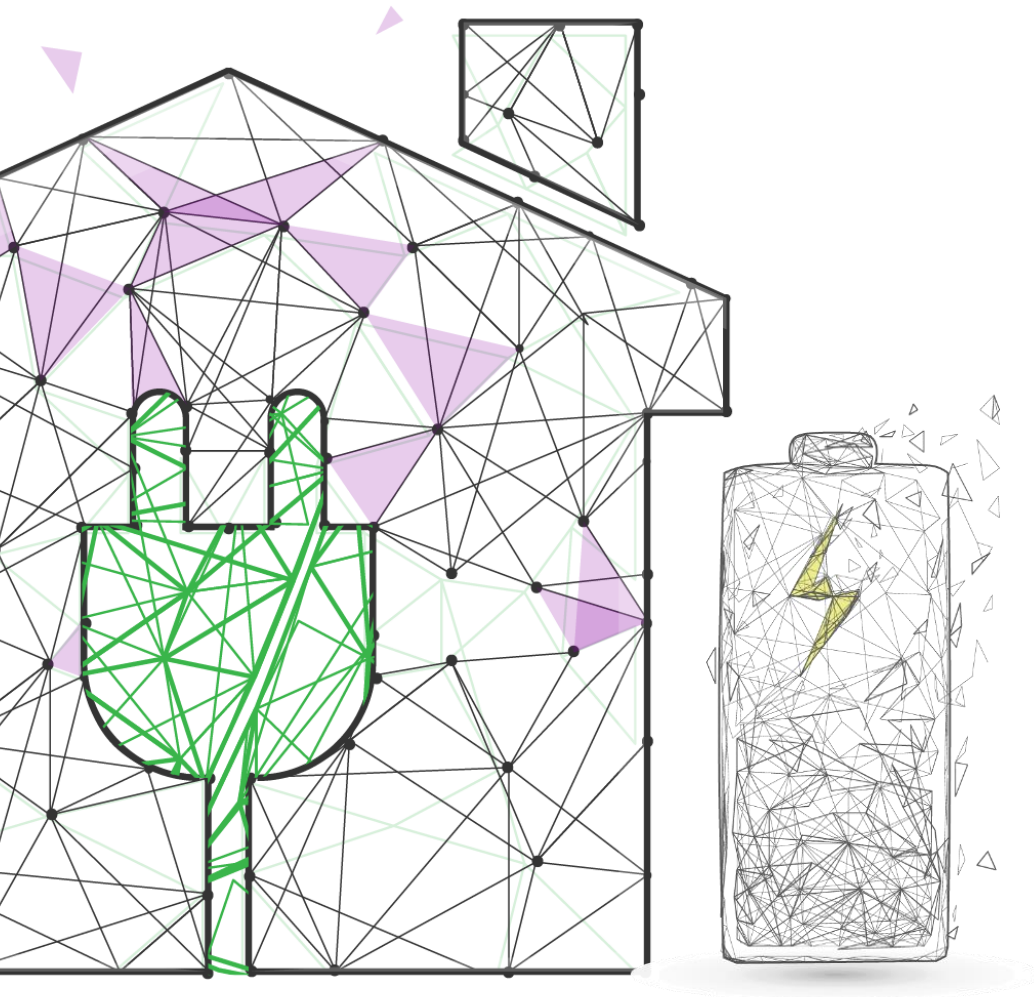
Infrastructure & Technologies



- Distributed Energy Resources
- EV Charging
- Surge Protection
- Nano-Tech Heating
- High Efficiency Water Tanks
- Large Scale Battery Storage



Power Goals



- 90% Net Zero 2030
- Electrify Transportation
- Full Circle Sustainability
- 100MW Renewables 2023

CleanTekCanada

Q&A
