

## NZTAP MANUFACTURER CASE STUDY



## MANUFACTURER BACKGROUND

iGEN is a technology company, engineering, developing, and marketing products. Our first product launch was the i2 – a self-powered - powered heat and power appliance that replaces traditional residential heating furnaces and boilers.

At the core of iGEN's success is its ability to develop technologies that enable people to live better and more comfortably. We are challenging traditional heating appliances, and inspiring the HVAC industry to develop more efficient and smarter appliances.

## WHAT IS IT?

Combined Heat and Power (CHP or Cogeneration) is an energy efficient technology that generates electricity and captures the heat that would otherwise be wasted to provide useful thermal energy—such as steam or hot water—that can be used for space heating, cooling, domestic hot water and industrial processes.

The i2 is a smart heat and power system for homes. As a direct replacement for traditional home heating boilers or furnaces, i2 sets a new benchmark in peace of mind and efficiency, by generating, storing and using its own electricity, keeping the heat on even during a grid power outage.

iGEN has created a symbiotic balance between comfort and peace of mind. By having the unique ability to generate its own electricity, the i2 powers itself and offers critical heat and power during an electrical power outage.

# INSTALLATION

Installers are certified by iGEN. For unattended operation within occupied single-family residential buildings, the installation must adhere to the following codes:

- Local codes, regulations and by-laws the authorities having jurisdiction
- CSA B149.1 Natural Gas and Propane Installation Code (current edition for Canada)
- ANSI Z223.1 / NFPA 54 National Gas Fuel Code (current edition for USA)
- CSA C22.1 Canadian Electrical Code – Part 1 (current edition for Canada)
- CSA C22.2 Canadian Electrical Code – Part 2 (current edition for Canada)
- NFPA 70 National Electrical Code (current edition for USA)

# STANDARDS & CERTIFICATIONS




In Ontario, safety certification is currently achieved via field review by ESA & TSSA.

# BENEFITS AND COSTS

- Unlimited Home Battery Storage Capacity (1kWh on-board battery included)
- 96% AFUE
- Off-Grid Capable
- Net Metering Ready
- Black-Out Proof Technology
- Micro Grid Ready
- Industry Leading 15 Year Parts Warranty

# CONTACT?

Do we want to provide contact info here

	IGEN i2	Furnace + Whole-Home Generator	Furnace + Home Energy Storage
			
Industry Sector	Home Comfort + Resilience	Home Comfort + Resilience	Home Comfort + Resilience
Price (Estimated Retail pricing in CAD incl. HST, unless stated otherwise)	Starting at \$10,000 including installation	Furnace = \$4,040 Generator = \$7,000 Total = \$11,040 including installation	Furnace = \$4,040 Battery = \$16,500 Total = \$20,540 including installation
Main Market Position	Self-generating, stand-alone, grid independent, connected home heating appliance.	Home heating appliance + Stand-by electrical generator for home.	Home heating appliance + Battery storage for home.
On-Board Battery Size	1kWh (upgradable)	N/A	13.5kWh