

## SMART ENERGY SOLUTIONS



### TRI-GEN HVAC SYSTEMS

Our **Tri-Gen Systems** are ideal for any facility requiring heating and/or cooling that requires significant energy output, including:



#### Data Centers

Our system utilizes waste heat or solar thermal to produce cooling.



#### Commercial & Industrial Buildings

Offers a sustainable and cost-effective solution for heating, cooling and electricity.



#### Agriculture

Useful in facilities that require controlled environments for storage and production, like greenhouses, with cooling, heating, and power for automated systems.

Our **Tri-Gen Technology** offers a robust solution for organizations seeking to advance sustainability, lower energy costs, and support a more sustainable future.

## CONTACT US TODAY FOR A FREE INITIAL CONSULTATION

and learn how we can power your business toward a **greener tomorrow**.



877-352-0024



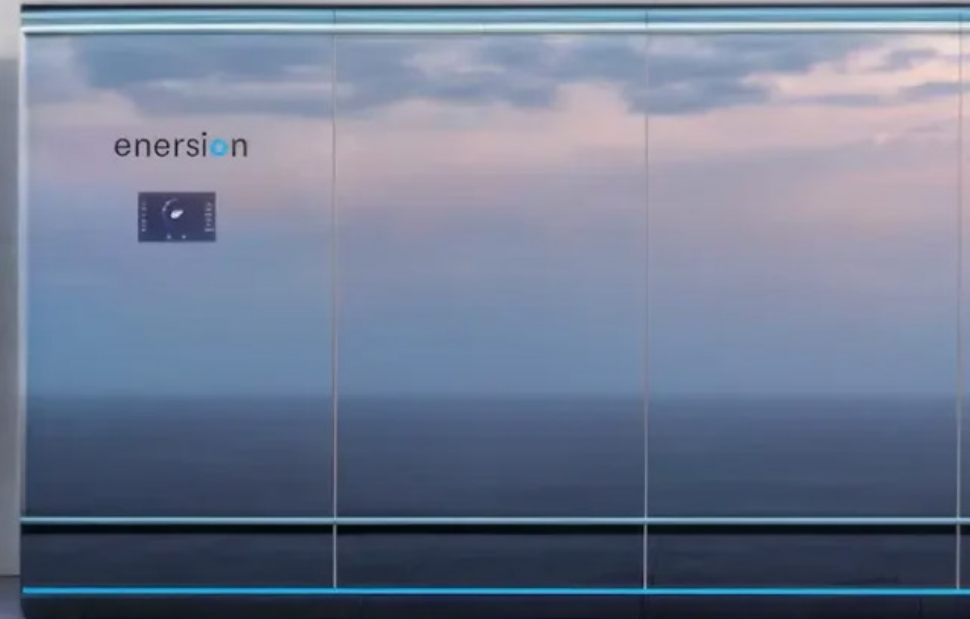
[info@daisyenergy.ca](mailto:info@daisyenergy.ca)



[daisyenergy.ca](http://daisyenergy.ca)

## TRI-GEN HVAC SYSTEMS

# Emission Free Cooling & Heating For Your Building



Up to 30X Less Electricity Consumption



Eliminate GHG Producing Refrigerants



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## SMART ENERGY SOLUTIONS

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## Cooling, Heating, And Energy - All In One.

Our **Tri-Gen Technology** is a groundbreaking advancement in HVAC systems, offering **energy efficiency that is 20 to 30 times greater than traditional solutions**. This innovative system optimizes energy usage by simultaneously providing cooling, heating, and electricity from a single source. By eliminating the need for fossil fuels and greenhouse gas-emitting refrigerants, it significantly reduces emissions and lowers your carbon footprint while delivering substantial energy cost savings.

The system is highly versatile, functioning as either a standalone solution or seamlessly integrating with existing HVAC systems for retrofit applications, thereby minimizing retrofit expenses.



## How Tri-Gen Technology Works

Tri-Gen systems utilize waste heat or renewable sources such as solar thermal energy to power their operations. The core process involves a cycle that captures energy at each stage and redistributes it to produce:



### Cooling

Adsorption Cooling Technology is used to convert waste heat into cooling, eliminating the need for high electricity consumption typically associated with conventional air conditioning. This cooling process is highly efficient and significantly reduces energy costs and greenhouse gas emissions.



### Heating

Waste heat or solar thermal heat is used within the system to generate hot water or steam, which can be used for heating applications. By capturing and reusing energy that would otherwise be lost, the system enhances thermal efficiency and provides reliable heating for various needs.



### Electricity Generation

By utilizing solar PV/thermal panels to generate both heat and electricity, facilities are able to produce their own power sustainably. This reduces dependency on the grid and provides a renewable source of electricity to power other equipment, lighting, and machinery.

## Benefits of our HVAC Tri-Gen Technology

### Energy Savings

By producing three forms of energy in one integrated system, Tri-Gen technology lowers overall energy usage. Facilities can reduce costs by replacing separate cooling, heating, and power generation systems with this all-in-one solution.

### Environmental Impact Reduction

With lower energy consumption comes a reduced carbon footprint. The Tri-Gen system operates using waste heat and renewable sources, cutting greenhouse gas emissions compared to traditional energy systems. It also uses distilled water as a coolant eliminating GHG producing traditional coolants.

### Operational Efficiency

Since the technology uses fewer mechanical components than traditional systems, maintenance costs are greatly reduced, and the system remains reliable with minimal upkeep.

### Versatility and Scalability

Tri-Gen systems can be applied in various environments and industries, from commercial buildings and hospitals to industrial plants and data centers, where energy demands are high and resource efficiency is paramount.