

## **ONE COMPANY, INFINITE POSSIBILITIES**

We serve more than two million customers around the world, delivering innovative, sustainable and integrated solutions in Structures & Logistics, Electricity, Pipelines & Liquids and Retail Energy. From the delivery of efficient and reliable energy for homes, businesses and communities, to affordable temporary and permanent structures, we build communities, energize industries and deliver customer-focused infrastructure solutions like no other company in the world – anytime, anywhere.

**ATCO** *always there.  
anywhere.*

For more information, contact us at:  
[NaturalGasSales@ATCO.com](mailto:NaturalGasSales@ATCO.com)

# MICRO COMBINED HEAT & POWER



# MICRO COMBINED HEAT & POWER (mCHP)

Micro Combined Heat and Power is an energy efficiency technology that uses natural gas to generate both heat and electricity for your home. mCHP captures the excess thermal energy that would normally be lost during power generation, and instead uses it to heat your home or water, creating greater efficiencies, lowering utility costs and reducing greenhouse gas emissions. Because mCHP generates electricity exactly where you need it, it provides reliable, low-emitting energy production that gives you better control of the cost and supply of power now and in the future.

## WHY ATCO

ATCO serves customers around the world, delivering innovative, sustainable and integrated solutions in Structures & Logistics, Electricity and Pipelines & Liquids.

ATCO is the right choice for you if you need:

- An innovative alternative high-efficiency energy solution
- Lower greenhouse gas (GHG) emissions
- Sound technical expertise and over 100 years of industry knowledge
- A company you can count on

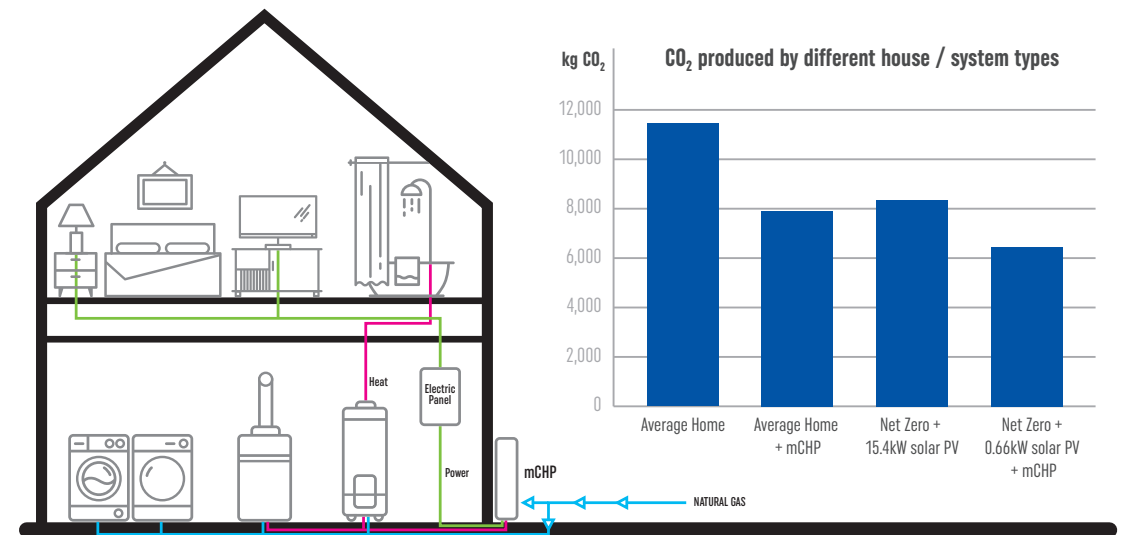
AISIN 1.5kW mCHP system.



## OUR RESIDENTIAL APPROACH

The benefits of installing an ATCO residential mCHP unit:

- It reduces CO<sub>2</sub> emissions by up to 31% (3.5 tonnes) each year
- It is compatible with conventional renewables like solar, and can achieve net-zero electric and near net zero emissions
- The unit can generate up to 1.5kW of electricity and 12,600 BTU/hour of heat, which can be used for forced air heating systems, domestic hot water and hydronic systems (i.e. in-floor heating)
- The noise level is low – approximately 45dB quieter than a residential fridge
- It can be retrofitted to existing residences and installed at new builds



Edmonton Residence	Tonnes CO <sub>2</sub> Emitted	Tonnes CO <sub>2</sub> Reduced	% Reduction
Status Quo	11.4	-	-
With mCHP	7.9	3.5	31%
With mCHP & 1.6kW solar PV	6.6	4.8	42%

### Emission Reductions (Current Electrical Grid Mix)

Edmonton Residence	Tonnes CO <sub>2</sub> Emitted	Tonnes CO <sub>2</sub> Reduced	% Reduction
Status Quo	9.5	-	-
With mCHP	7.8	1.7	19%
With mCHP & 1.6kW solar PV	4.9	4.6	49%

### Emission Reductions using Future Electrical Grid Mix (Natural Gas with 30% renewables)