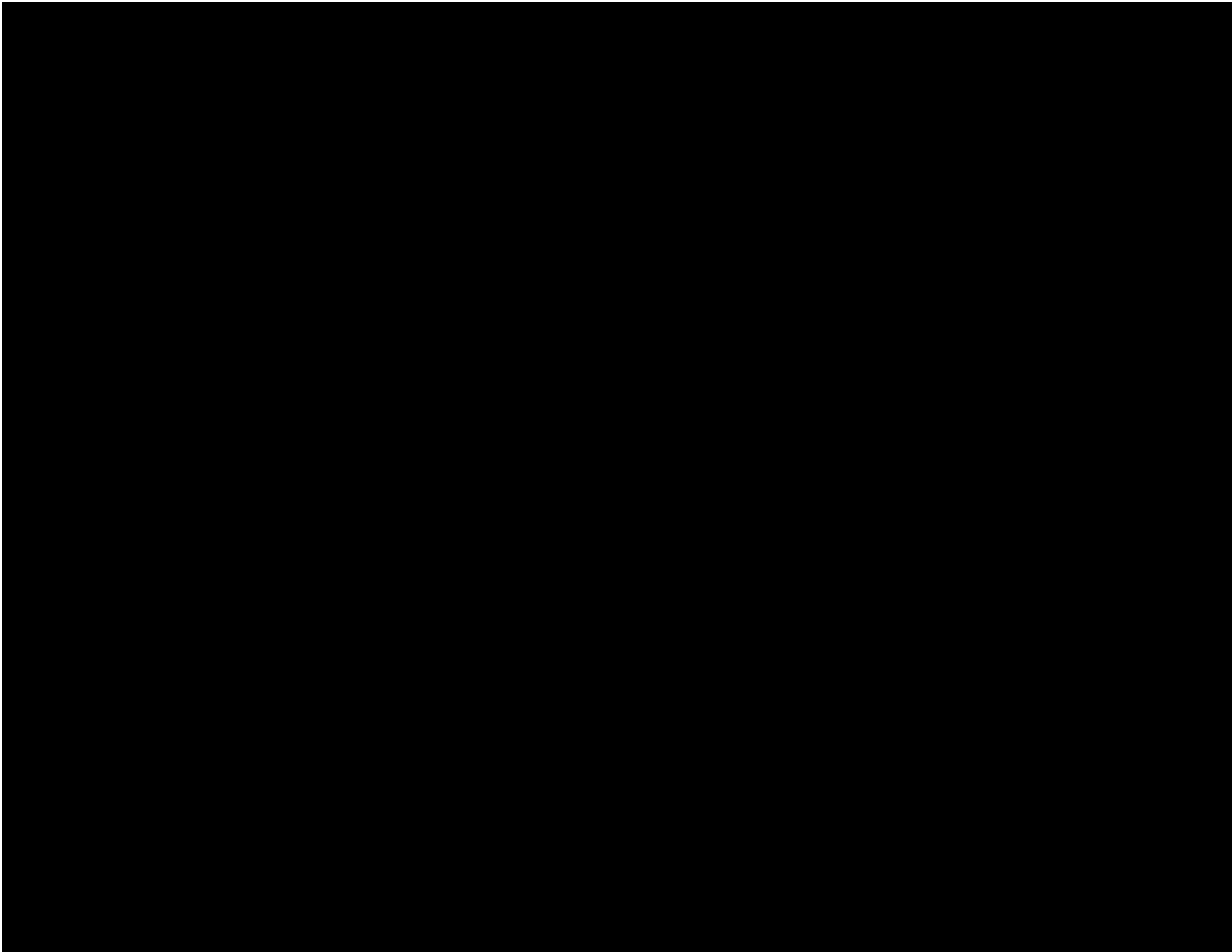


**ENGINEUTY**  

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**P O W E R   S Y S T E M S**



## 01 / A NEW LOOK FOR A MICRO-CHP

Like all good ideas, the concept behind Enginuity's new Micro-CHP is simple: remove an existing gas-fired water heater and replace it with a single unit that produces a home's hot water and electricity while using only a small amount of additional gas. The gas was going to be burned anyway, so why not run it through Enginuity's high-efficiency generator first?

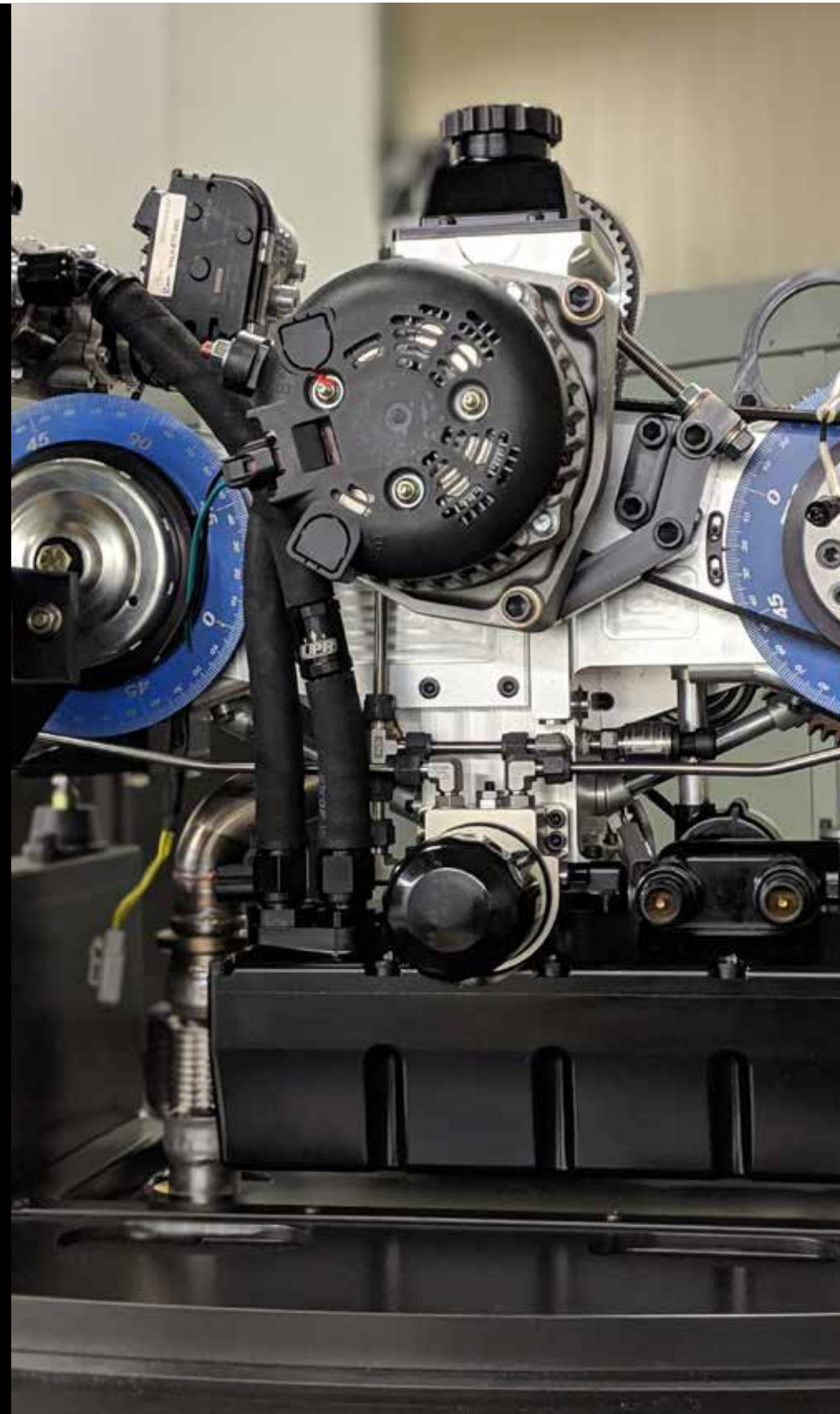
It really is just that simple, and after extensive development and testing, Enginuity has produced a revolutionary new Micro-Combined Heat-and-Power system with the potential to reshape the distribution of energy around the country, and even around the world.



## 02 / A NEW ENGINE TO POWER A NEW M-CHP

Providing power for our M-CHP system is our patented 'mirror-balanced' four-stroke opposed piston engine. This quiet-running and efficient engine makes the most of every cubic foot of natural gas, turning that natural gas into energy right where the energy is needed. For ease of ownership it is designed to be serviced only once a year, and is built to last for decades under normal conditions.

Our generator's simplicity of construction pays other dividends as well; our 500cc single-cylinder makes up to 8 kilowatts of power so it only has to run for a few hours a day to provide the thermal and electrical energy needed to keep an average sized American home comfortable.





## 03 / A M-CHP BUILT TO CHANGE MINDS

Enginuity's team of fabricators and engineers have the ability to take designs from initial concept to fully-functional reality. We work to avoid hypotheticals and instead we focus on designing real-world products for production. The commercial prototype you see is at a Technical Readiness Level just below that of a commercial product.

Again, this is not just a model, it is a commercial prototype for production. Inside the prototype, our proprietary M-CHP technology has been engineered to exceed all applicable regulations, ensuring that it meets the most exacting standards for government, industry, and most importantly of all, consumers.

## 04 / A MICRO-CHP PROVED THROUGH TESTING

Numbers from Enginuity Power Systems are always independently verified. Every single sub-system we have manufactured for this M-CHP, from the generator to the battery, is fully tested and the data produced can be relied upon.

Independent analysis is the process by which we verified the data for our combined heat-and-power program. Complete test data is available from us upon request. You can have confidence that the data you see is the data produced by the independent labs which have evaluated the system.





## 05 / MICRO-CHP AS AN APPLIANCE

To achieve widespread market acceptance, Micro-Combined Heat and Power needs to move out of the small-market position that it has occupied for so long. Until M-CHP is looked at as an appliance, like a dishwasher or a refrigerator, it will remain a technical curiosity, like a cell phone in 1968.

In order to bring Private Generation mainstream M-CHP must.

- Install in a day, like an appliance.
- Operate quietly, like an appliance.
- Be commonplace, like an appliance.

And most importantly, M-CHP must be priced like an appliance, which is why Ennuity's M-CHP costs just \$8900\*.

\*US Market only. Price is exclusive of any state and local taxes. Price is plus installation, activation, and optional equipment. \$8900 (USD) figure is based on projected yearly sales of 100,000+ units.

## 06 / GREEN, GREENER, GREENEST.

Enginuity believes our new state-of-the-art micro-CHP can play a vital role in creating a brighter energy future. Clean, reliable and affordable distributed power generation is the singular driver behind the development of our energy generation system.

The US Government's Energy Information Administration states that the average operating efficiency of a coal-fired power plant is 27.6%, when including transmission and distribution losses. We can do better, much better. With an operating efficiency of over 90%, Enginuity's micro-CHP is three times more efficient, now that's better!

This means that every time an Enginuity micro-CHP system is installed it drastically cuts a home's true carbon-footprint, making Enginuity's micro-CHP one of the greenest power producers available today.

Now multiply Enginuity's improved efficiency by the millions of homes where natural gas is available, and we've all made a big step towards a cleaner, greener world

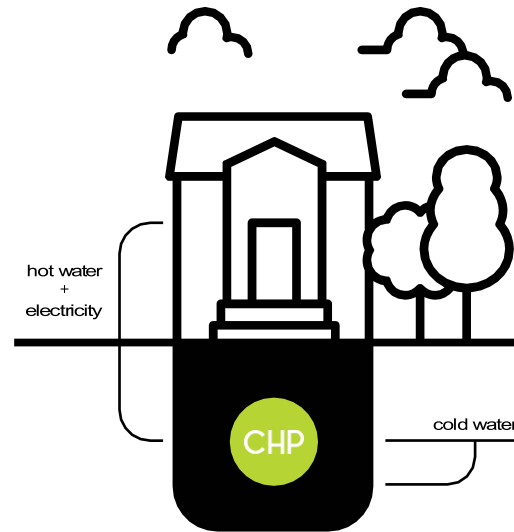
/ Enginuity power



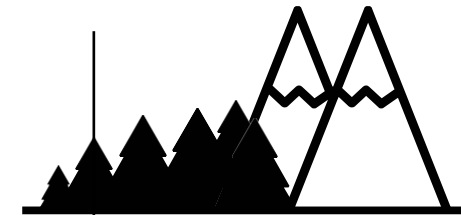




27.6% Efficiency  
with traditional power sources



Clean Burning Natural Gas



90% Efficiency  
with our new M-CHP system

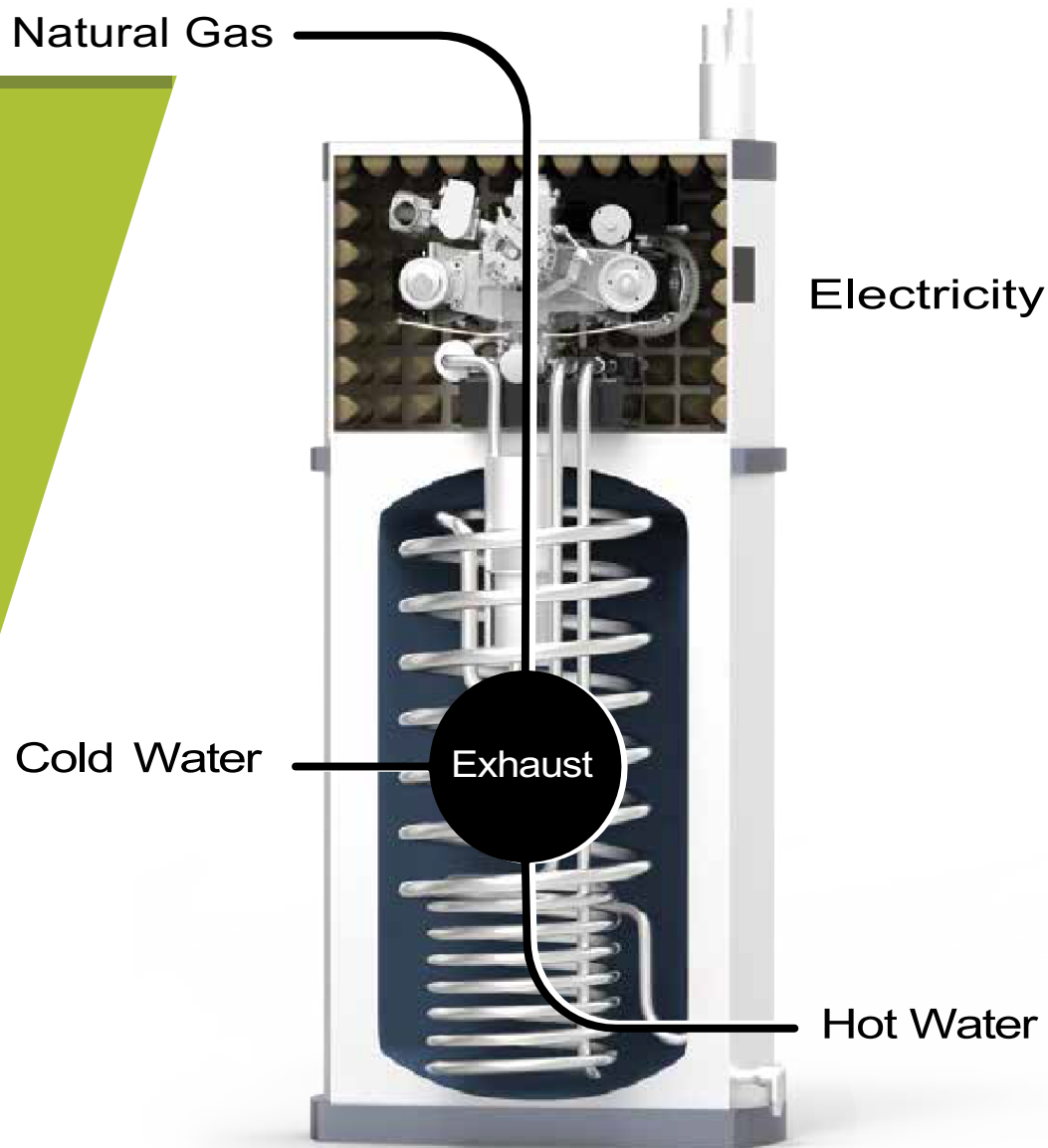
Some Current Oak Ridge National Laboratory Energy Report Highlights  
**"Combined Heat and Power: Effective Energy Solutions for a Sustainable Future"**

A report by the Oak Ridge National Laboratory points out that more than two-thirds (67%) of fuel used to generate power in the U.S. is lost as waste heat. The report projects that if CHP were to produce 20% of all U.S. electricity by 2030 (several countries have already achieved this level) CO<sub>2</sub> emission reduction would be the equivalent to taking 154 million autos off the road (that's more than *half* the current U.S. fleet), and more than 5 quadrillion (twenty-four zeroes) BTU's of fuel would be saved annually which is equivalent to nearly half the current U.S. household energy consumption.

Now *that* is what Enginuity calls '**Going Green**'.

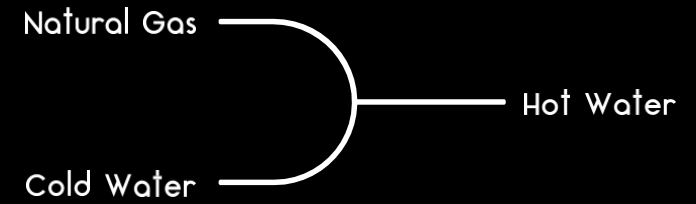


METRICS	M-CHP-V1 Home Appliance	M-CHP-V2 Pool Heater
DISPLACEMENT (cc)	500 cc single cylinder	1003 cc twin cylinder
ELECTRICAL OUTPUT	6.1 kilowatts continuous	17 kilowatts continuous
THERMAL OUTPUT	44,000 BTU	88,000 BTU
DRY WEIGHT (lbs.)	489 lbs. (complete unit)	526 lbs. (complete unit)
SERVICE SCHEDULE	2300 Hours or Annually	2300 Hours or Annually
M-CHP LIFE CYCLE	40,000 Hours	40,000 Hours



Enginuity Micro CHP System

## / CONVENTIONAL WATER HEATER /

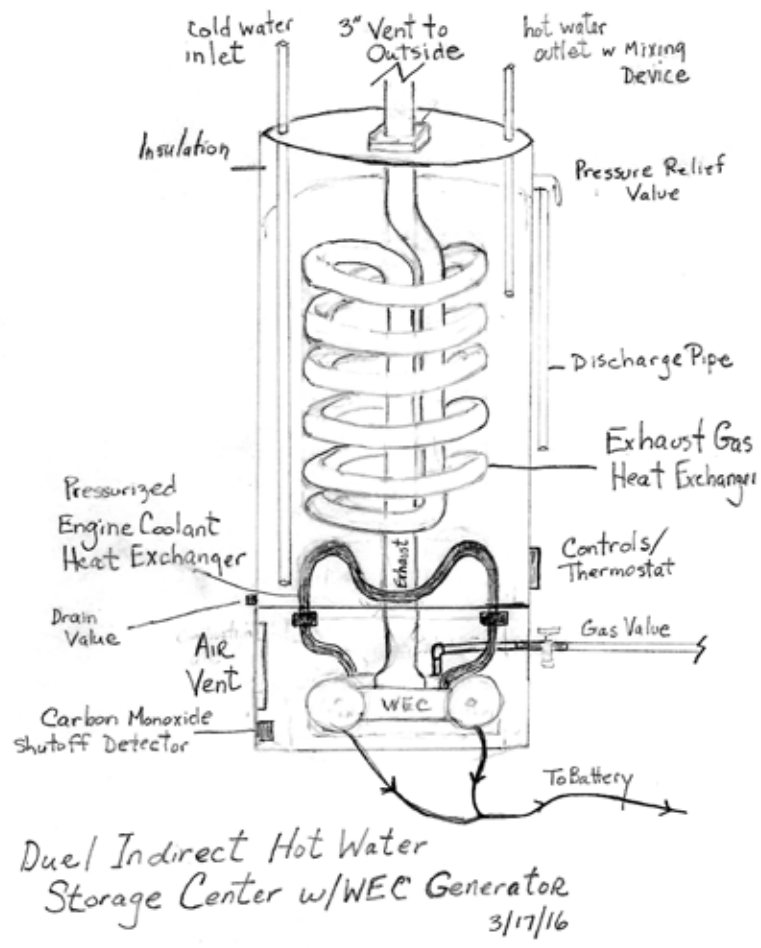


Conventional water heaters use the heat from burning gas to heat water.

## / ENGINUITY MICRO CHP SYSTEM /

Enginuity Power Systems' takes clean-burning natural gas and runs it through our super-quiet and efficient generator to make electricity for your home. Then our system uses the heat from the generator to warm your water. So instead of just getting hot water you also get all of the electricity you need to keep your home comfortable, winter and summer.

# 10 / A TIMELINE FOR OUR MICRO-CHP



Nobody moves faster than Engenuity. At our company we value fast iteration without compromising quality and core values.



With our Micro-CHP we turned a napkin sketch into a revolutionary commercial product in exactly 10 months and 28 days.



# ENGINUNITY

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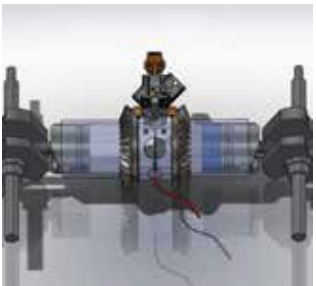
## P O W E R   S Y S T E M S

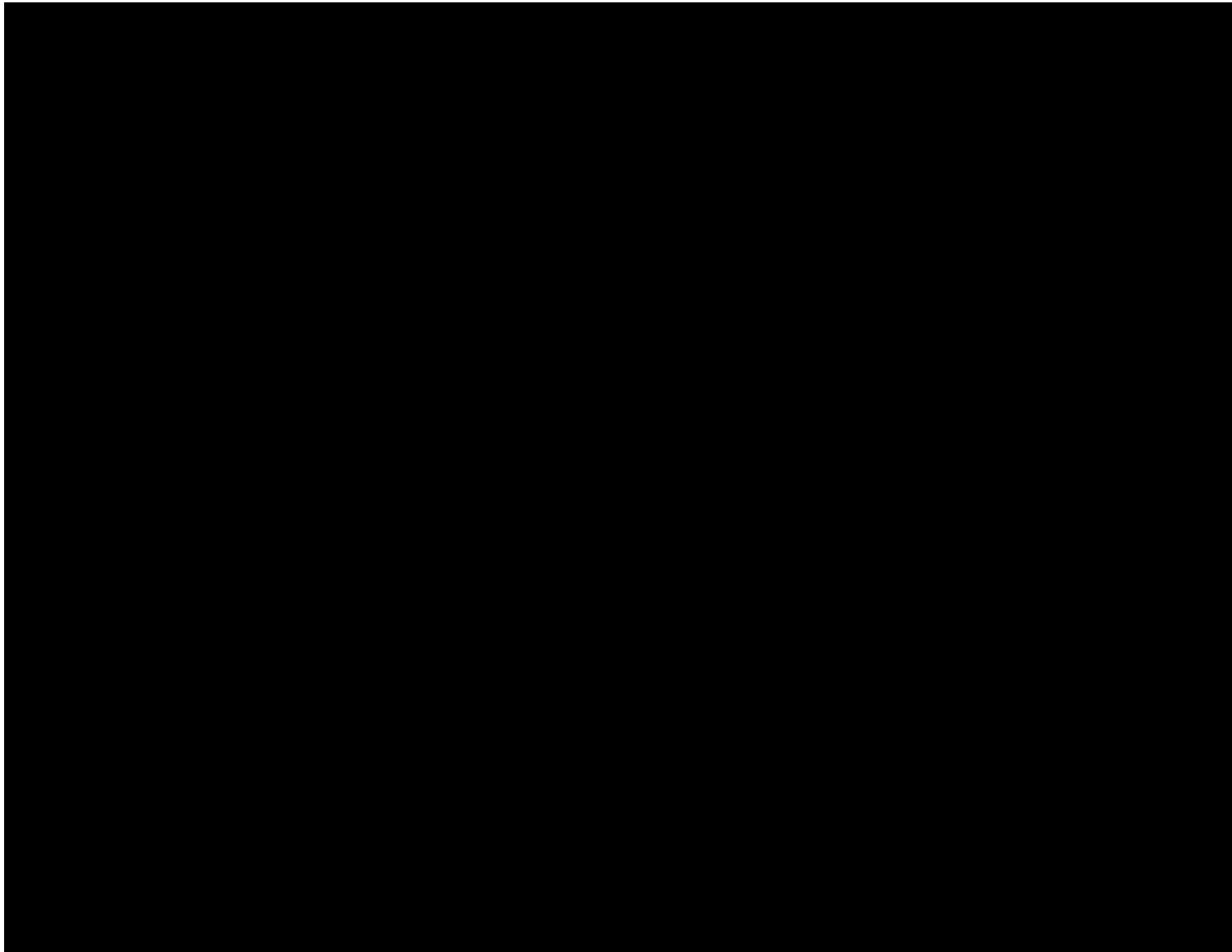


FOR ADDITIONAL INFORMATION EMAIL | [VINCE@ENGINUNITYPOWERSYSTEMS.COM](mailto:VINCE@ENGINUNITYPOWERSYSTEMS.COM)

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