



# CHPs

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INCREASING ENERGY RELIABILITY  
AND SAVINGS WITH  
COMBINED HEAT AND POWER

**Buchanan**  
Ingersoll · Rooney

## UNLOCK THE POWER OF CHPs

**Energy costs are significant, but can be dramatically reduced and controlled**, reaching 19% of total expenditures for an average office building and more than \$1 million in annual costs for some hospitals and other similarly sized facilities.

**Take control of energy reliability**, from extreme weather and natural disasters to customers served from remote locations or with aging infrastructure, CHP facilities allow customers' control over their electric reliability.

**Reduce greenhouse gas emissions**, whether from regulatory requirements or other stakeholders, greenhouse gas emissions for facilities can be dramatically reduced.

Today, on-site CHP systems are rapidly transforming the way businesses power their facilities with low-cost, efficient – and when combined with renewable energy, battery storage and energy efficiency measures – environmentally favorable electricity.

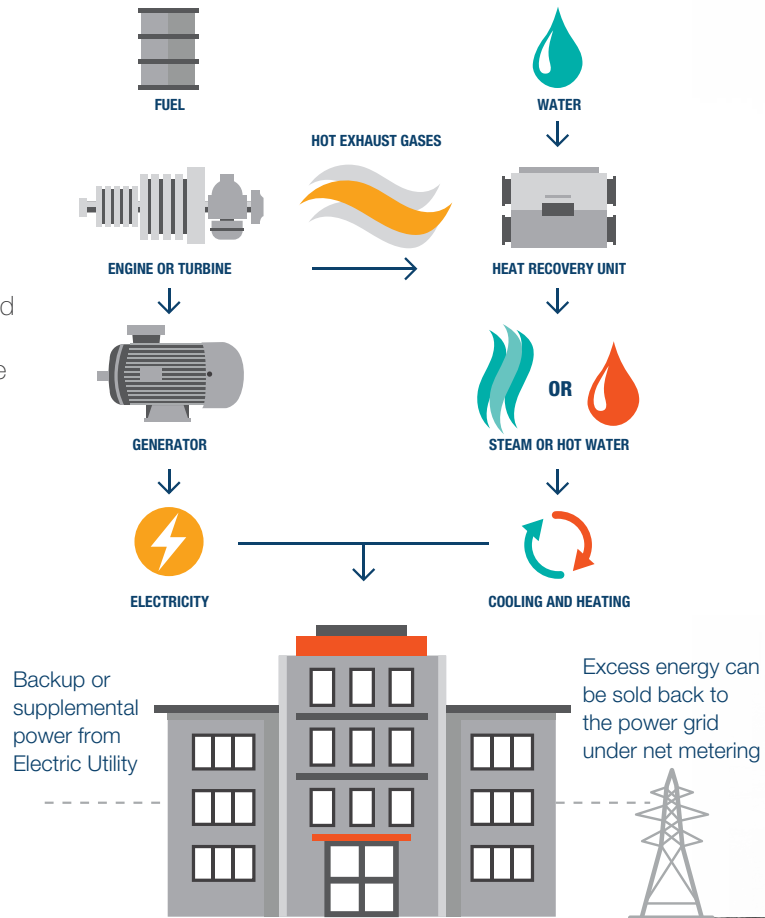
## BUCHANAN IS LEADING THE WAY IN HELPING CLIENTS TAKE ADVANTAGE OF THIS OPPORTUNITY TO MAKE THEIR BUSINESSES AND FACILITIES MORE COMPETITIVE.

### What is a CHP System?

CHP systems allow businesses to generate their own safe, reliable and cost-effective electricity without needing to rely exclusively on the electric grid or costly backup generators.

While not a specific technology, CHPs typically use low-cost natural gas, renewables (and possibly energy storage) to power reciprocating engines, combustion or steam turbines, generators, microturbines, and heat recovery units. What would otherwise be "waste" heat and water are used to cool and heat a customer's facility. Any excess energy produced can be sold back into the grid. Reductions in peak usage can create significant cost savings.

CHP systems have the power to save companies hundreds of thousands in annual energy costs (millions over time) and reduce greenhouse gas emissions by up to 80% each year, particularly when used in combination with renewable energy resources and energy storage.



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## Who Are CHP Systems For?

CHP systems are increasingly being installed in a variety of facilities both big and small including:

Industrial & Manufacturing Facilities · Hospitals & Acute Care Facilities · Retail Facilities ·  
Universities & Colleges · Retirement Communities · Metals Facilities · More

## Are CHPs Financially Attainable?

Absolutely. Depending on the site-specific needs and goals, according to reports and studies analyzed by the United States Department of Energy, CHP costs are typically recovered in less than ten years, with some facilities under five years, depending on the facility.

Increasingly, businesses are turning to third parties that front the initial investment in the CHP system in exchange for long-term agreements, with the end user experiencing immediate cost savings and little to no initial costs.

## CHPS Provide:

- Protection from short-term and lengthy grid outages, voltage fluctuations and frequency fluctuations.
- Predictable long-term energy costs with protection from market price fluctuations compared to local utilities or the competitive market.
- Reliability and cost-savings making CHPs a smart way to modernize a facility's outdated boilers, generators or heating / cooling facilities.
- A more environmentally friendly solution compared to pulling energy from the grid.



## UNLOCK THE POWER OF CHPs

### Buchanan – Your Go-To CHP Resource

At Buchanan, we have an experienced team of attorneys and government relations professionals with expertise in obtaining and understanding grants, and CHP experts, including a former general counsel and former Commissioner of a Public Utility Commission, who have helped businesses through the CHP consideration, approval and installation process. We assemble the right team of experienced lawyers and government relations professionals, who pair with in-house legal and facilities managers, financing, and economic and site design consultants that we've worked with in the past if need be.

#### Working with you, we:

- Conduct a full economic and business analysis of your energy portfolio to determine if a CHP is right for you
- Recommend the right project structure (customer-owned or third-party-owned) for your needs
- Connect you with vetted developers and other partners, so the heavy lifting on sourcing falls on our shoulders
- Work with you to help secure funding sources and conduct tax and regulatory assessment
- Negotiate and develop contracts for site approvals, construction, equipment, operations & maintenance performance guarantees, purchased power agreements and more
- Help navigate regulatory approval and compliance at the federal, state and local levels.

**Let our CHP experts guide you through the process  
and help you unlock the power of Combined Heat and Power.**



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*Costs and installation timelines for Combined Heat and Power systems may vary. To gain a better understanding of what factors your organization may need to consider, please contact the experts at Buchanan Ingersoll & Rooney.*