ONSITE POWER GENERATION – HOW MUCH DOES IT COST?



DID YOU KNOW THAT YOU CAN MOST LIKELY **GENERATE POWER ONSITE CHEAPER** THAN TAKING POWER FROM THE GRID?

That's right! Using reciprocating engines and cheap, clean natural gas, you can generate clean, reliable power onsite,

HOW MUCH DOES IT COST? This article breaks out the key costs associated with onsite power generation.

THE THREE COSTS OF ONSITE GENERATION

- **1. CAPITAL COST** The cost of purchasing the necessary equipment and installing it at your facility: generator, switchgear, heat recovery equipment; electrical, mechanical and structural work
- 2. OPERATING COST The cost of maintaining the generator. This includes spark plugs, oil and coolant and minor and major overhauls (parts replacements) to the engine.

The cost of the fuel being consumed by the generator. This needs to

include the cost of delivery and any fees or carbon taxes that may be

applicable to the fuel you are using in a particular jurisdiction

MORE 3. FUEL





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WHICH COST IS MOST IMPORTANT?

Not all onsite power generation applications are the same and neither are the costs that are being incurred. Below we have identified a few different onsite generation applications and qualified which category of cost is the most important

	COST	COST	FUEL COST	
PRIME POWER: RUNNING 100% OF THE TIME				Prime power applications are running 100% of the time and as such, each category is equally important to consider
INTERMITTENT POWER: RUNS WHEN POWER PRICES ARE HIGH.				These projects are highly affected by the capital cost as the generators don't run often and don't consume much fuel or require much maintenance
REMOTE POWER: LIMTED FUEL OPTIONS AND HIGH PRICES				Like Prime power, these applications run 100% of the time BUT the fuel cost is much higher and as such the fuel cost has a larger impact on the total cost of power



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HOW CAN COLLICUTT HELP?

DEVELOP THE RIGHT SOLUTION

We will work with your team to develop the right solution for the project. This will include:

- Reviewing the proposed building power, cooling and heat loads and potential CO2 requirements.
- Provide Conceptual Design Ideas.

ON-TIME AND SEAMLESS

We will ensure that the equipment is ready for installation in line with your schedule.

Our experienced technicians will oversee and supervise the installation and commissioning process to ensure no damage is done and that it's a seamless installation to the electrical and heating systems of the building

Supply, Installation and Front End and Conceptual Ongoing Detailed Design Support Engineering Commissioning THE SUPPORT YOU NEED **ENSURE THE RIGHT INSTALLATION**

Let us take the operational risk off your shoulders!

- We will provide ongoing 24/7, 365 days a year remote monitoring and trouble shooting support
- We will work to train your operations staff to conduct routine, maintenance and inspections

You want onsite generation to take advantage of cheaper power.

STRATEGY

We will work with your design consultants to validate design and integration into the building's systems. This is vital! Here are a series of items we will review and consult on:

- Switchgear integration
- Heat loop integration (if required)
- Heat rejection of engine, engine jacket water and auxiliary loop •
- Foundation and mounting design
- Load step and engine response strategy
- etc.



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