



Prime power

> Case History

Evince Textiles Factory in Gazipur District, Bangladesh

Our energy working for you.™

Where:

Evince Textiles Factory in Gazipur District, Bangladesh

What:

A 1160GQKA generator set, powered by a QSK60G engine, from Cummins Power Generation

Purpose:

To provide prime power, since the grid power supply is unreliable in terms of availability and quality

Primary choice factors:

Brand name and reliability of product, reputation of distributor



**Power
Generation**

Prime power for fully integrated shirt manufacturing plant in Bangladesh

GAZIPUR DISTRICT, BANGLADESH — Evince Textiles Limited is a member of The Evince Group in Bangladesh, which is recognized as one of the pioneers in the manufacture of garments in Bangladesh with a fully integrated production chain.

Incorporated in 2003, on the 20th anniversary of the Group, Evince Textiles has built a textile factory in the Gazipur district of Bangladesh, one of very few fully integrated shirt manufacturing plants in the country. Starting out with fabrics, natural and synthetic, right up to finished shirts, Evince is producing almost everything within its own group of companies, using the most modern equipment and technology available, and in compliance with the highest quality standards.

At approximately 4,500 square meters, the factory employs about 475 people, who keep production going 24 hours a day, in three shifts.

Grid power supply connection via overhead cables has unfortunately been unreliable in terms of availability and quality. With a total power requirement of 1000 kW, the company decided to draw its prime power from



The gas-powered genset from Cummins Power Generation provides prime power to the textile factory.



Cummins Power Generation advance PowerCommand Control is built in to provide seamless installation, commissioning and operations.

a Cummins Power Generation Gas Generator model 1160GQKA powered by a lean-burn gas engine model QSK60G, with PowerCommand® Control.

A gas-powered generator set was chosen because of the abundance of natural gas in Bangladesh, which is consumed entirely by industrial and power generation facilities within the country.

Cummins lean-burn gas engine generators

Cummins lean-burn gas engine generator sets offer a powerful, single source solution that integrates essential hardware and software components into one highly reliable, efficient power system. Paralleling and controls capability, including the proprietary PowerCommand Control, is built right in to provide seamless installation, commissioning and operation.

The gas-powered generators are driven by proven, four-stroke, high-speed, spark-ignited engines, designed for increased performance and reduced emissions. Not only is more power produced — efficiency is improved, as well.

Cummins lean-burn gas engine gensets can meet most emission requirements for nitrogen oxides, volatile organic compounds, carbon monoxide and particulate matter.

The gas-powered generators have already proven themselves with over 200,000 hours of continuous duty operation, logged at over 125 MW of customer installations in CHP (combined heat and power) and prime power applications around the world. Equipment reliability, measured in terms of engine availability, is extremely high.

Cummins lean-burn gas engine generators are capable of running on gas conforming to a wide quality range, from pipeline natural gas to field gas or even biogas — virtually any gas with a methane number over 50.

The generators can be containerized at the factory, for easier installation and rapid commissioning. Containerized sets, being moveable, can be employed at other sites as power needs change.

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PowerCommand Control

The field-proven PowerCommand Control System offers several attractive features, including integrated digital governing and voltage regulation; analog and digital metering; digital engine monitoring systems; smart-starting systems that regulate the fuel system based on engine temperature to improve stability, starting time and limit smoke; battery monitoring systems that test the genset batteries; AmpSentry true alternator protection; and more.

Microprocessor controls built into the PowerCommand system allow the genset and transfer switch to access critical performance data and communicate that data to each other, as well as to other building management systems. The control capabilities include diagnostics, testing, feedback functions and corrective actions for enhancing system reliability and maximizing building operations. The controls run continuously, which means PowerCommand can detect failures even when not in use.

For more information about integrated prime power systems, contact your local Cummins Power Generation distributor or visit www.cumminspower.com.

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