

**PROJECT SUMMARY**

**Project Type:**  
Automated Gas Bypass System

**Commissioning Date:** project to project basis

**Company Overview:**  
Textile, Graphic, Spinning, Knitwear & Pharmaceuticals Industry

**Location:**  
Multiple Location

**Gas Gensets details:**  
40+ units of Gas Gensets  
capacity from 1125kW upto 2000kW .

**Low Gas Pressure Solution:**  
KEBD has designed gas bypass system of gas genset which is suitable in case of low gas pressure. This is fully automated system which has the operational logic of both high pressure & low-pressure operation.

**TECHNICAL SUMMARY**

**Brief of Implemented Project:**

The low gas pressure in the gas grid is affecting the operation of the Gensets. The pressure range of MWM Pre Gas Regulator is 200 Milli Bar to 4 Bar. The Gensets trip when the pressure goes below 200 Mbar. The advantage of MWM Generators is that it can operate even with 69 Milli Bar gas pressure in full load, it operates with even lesser pressure with lower load. KEBD designed the gas bypass system for bypassing the gas pre regulator when the gas pressure goes below 200 Milli Bar automatically. Further when the gas pressure increases it stops the bypassing automatically as well for protecting the Generator.

**Effect of this implementation:**

Gas Gensets can be operated without tripping with minimum natural gas pressure.

**Let us consider, 100 KW Load is Increased by Automated Bypass System**

Generation cost by Gas Generator	0.038	USD/KWH
BPDB Power Tariff (Industrial Tariff)	0.090	USD/KWH
Avg. 100KW generation cost by Gas Generator	3.85	USD
Avg. 100KW Power Cost from BPDB	9.08	USD
Savings on 100kW only	5.23	USD
Savings on 100kW only for Yearly 40000H	20,917.4	USD

\* Factory production gain by using gas bypass system is not included in the above savings.



**CONTACT US**

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