

DA-MON TRADE COMPANY LIMITED

Reuse CO2 Emissions from Fermentation Process

SUMMARY OF THE OPTION

Da-Mon Trade Company Limited is a producer of spirits (mainly vodka) and was established in 1988 in Darkhan, Mongolia. The company employs 210 staff working in four shifts.

The fermentation process generates high amounts of CO2 emissions. As these emissions are clean, it could be reused by other companies, for example, producers of soft drinks with dissolved CO2.

The company installed a shop in February 2004 to (see Figure 1)

- Collect CO2 emissions from the fermentation process
- Turn collected CO2 into liquid
- Bottle the liquefied CO2

The investment costs were US\$ 88,000 and potential savings are high. However, at time of writing of this case study the shop was not operating yet due to incorrect design and installation of the equipment. Details of the amount of CO2 emission reductions, cost savings and payback period could therefore not be determined.



Figure 1. The shop to liquefy and bottle of CO2 from the fermentation process

KEY WORDS

Chemicals, Distillery, Mongolia, Fermentation, CO2



FOR MORE INFORMATION

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