

COMBUSTION & ENERGY RECOVERY

Introduction

Biogas produced from anaerobic wastewater treatment plant can generate electric power. Besides, Biogas can be also used as alternative fuel for boiler, hot water generation etc. Excess of biogas is to be flared by high efficient combustor and burner for total organic carbon destruction - Enclosed/Semi/Open Flare system

Benefits

- Energy recovery
- Cost saving
- Renewable energy
- Environmental friendly

BIOGAS FLARE SYSTEM

Enclosed Flare

- No visible flame
- Automatic Ignite system
- >99% VOC destruction

Semi-Open Flare

- Minimum visible flame
- Low cost
- >99% VOC destruction

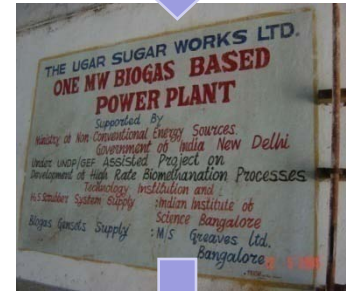
Open Flare

- Visible flame
- Low cost
- >99% VOC destruction



▲ Left: Enclosed flare system;
Right: Semi-Open flare system

BIOGAS POWER GENERATION SYSTEM



▲ Power generation from food & beverage industry wastewater, Taiwan



▲ 1MW power generation plant, India