### BERTSCHenergy

Power plants Process equipment





## Sugar Refinery Nigeria

Reference Sheet





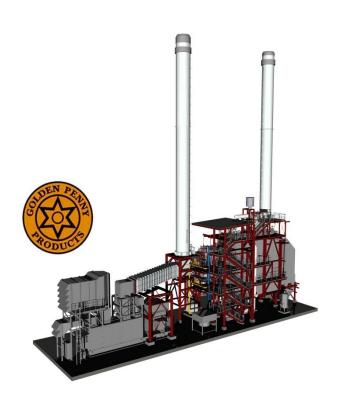
# »HRSG (Heat Recovery Steam Generator) downstream a Siemens SGT-400 (12.5 MW<sub>el</sub>) gasturbine«

Two lines were installed for the reliable supply of electricity and steam to a sugar refinery. Each of these lines consist of a combined-cycle cogeneration HRSG boiler and a waste heat boiler. The waste heat boilers have auxiliary firing that can operate with gas as well as oil, and that compensates energy input in fresh-air mode should the gas turbine come to a standstill.

The delivery spectrum also consists of the entire condensate management and all electronic and control equipment.

### **TECHNICAL DATA**

| Steam flow (MCR) (HP)  | 110 t/h         |
|------------------------|-----------------|
| Steam pressure (HP)    | 10 bar          |
| Steam temperature (HP) | saturated steam |
| Flue gas flow          | 40 kg/s         |
| GT outlet temperature  | 567 °C          |
| Additional firing      | 50 MW           |
| Fresh air operation    | 73 MW           |
|                        |                 |



### **SCOPE OF SUPPLY**

- » Boiler incl. burners and fresh air system
- » Diverter with bypass stack
- » Condensate and feed water system
- » Let down station
- » All pipe work inside the plant
- » Electrical and control system
- » Services by customer
- » Civil works





