

## HIGHLIGHTS

### Synthesis Gas System

#### INTEC SG Series

##### Power generation from organic waste of any kind

- Generation of approx. 1.2 to 1.5 MWh electrical energy – from 1 tonne of organic waste
- World-wide patent protection: four patents, last grant in March 2015
- Modular design – high availability, scalable and expandable
- Most modern German technology – 100 % Made in Germany
- High profit – very low production costs for electricity
- The efficiency of gasification is unique. The gasification of carbon is more than 99 %
- The INTEC synthesis gas plant is not a pyrolysis plant

Utilisable input materials		
Household waste Hospital waste Plastic, also PVC Industrial waste	Waste oils Waste rubber Waste tyres Hazardous waste	Sewage sludge Bio-waste Residues from paper industries, etc.

##### Ecologic advantages of the INTEC SG Series

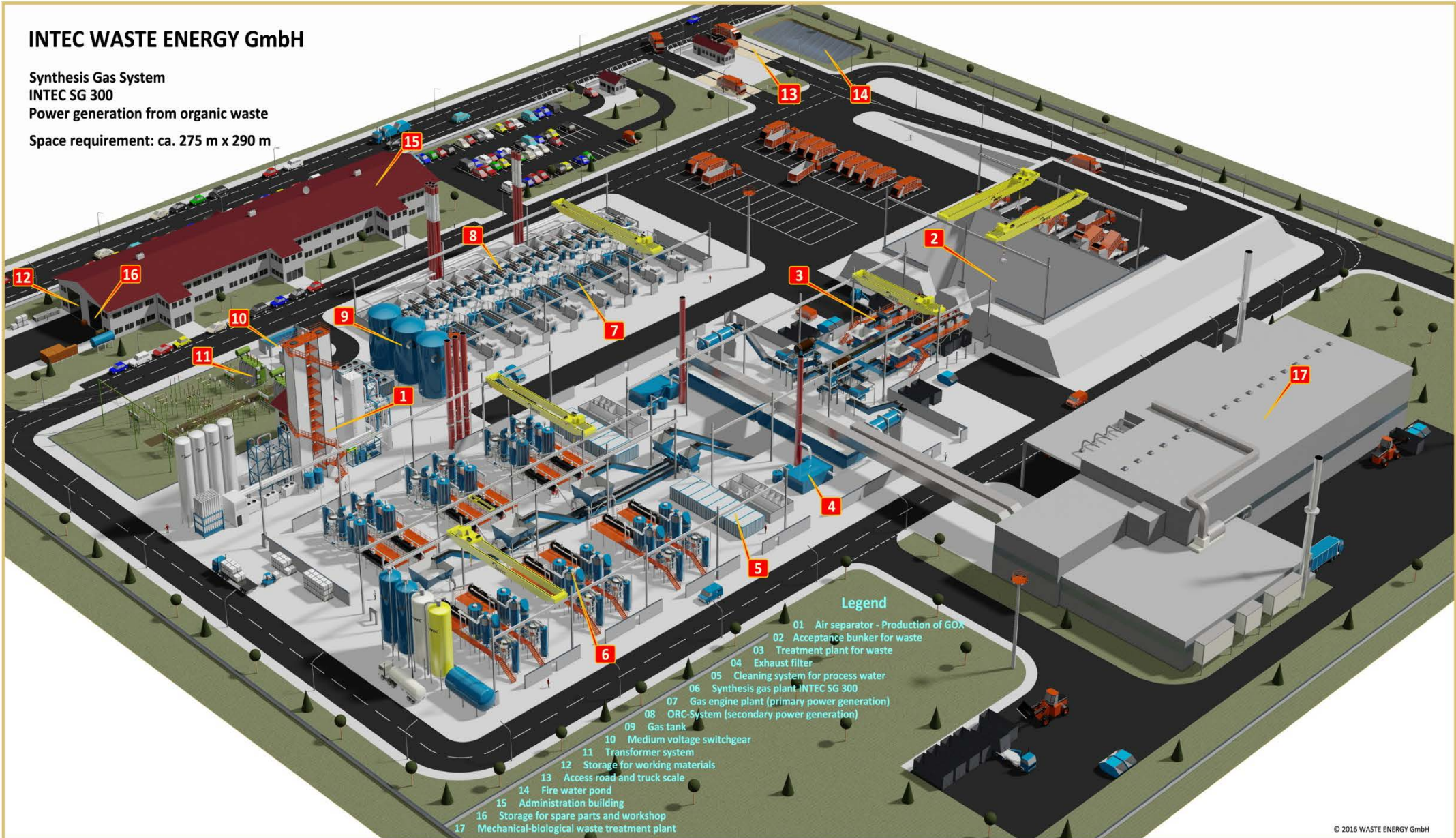
- No incineration or pyrolysis
- Closed production cycles
- Noise: 54 - 59 dB(A)
- **Completely emission-free gas production**
- No flue-gases
- No dioxin or furan build-up
- Compliance of valid emission protection guidelines
- No TAR, no low-grade OIL as residuals

INTEC is able to provide a comprehensive guarantee from a large international insurance consortium. Technical availability of machines and equipment are completely guaranteed.

# Synthesis Gas System - INTEC SG 300

## INTEC WASTE ENERGY GmbH

Synthesis Gas System  
 INTEC SG 300  
 Power generation from organic waste  
 Space requirement: ca. 275 m x 290 m



- Legend**
- 01 Air separator - Production of GOX
  - 02 Acceptance bunker for waste
  - 03 Treatment plant for waste
  - 04 Exhaust filter
  - 05 Cleaning system for process water
  - 06 Synthesis gas plant INTEC SG 300
  - 07 Gas engine plant (primary power generation)
  - 08 ORC-System (secondary power generation)
  - 09 Gas tank
  - 10 Medium voltage switchgear
  - 11 Transformer system
  - 12 Storage for working materials
  - 13 Access road and truck scale
  - 14 Fire water pond
  - 15 Administration building
  - 16 Storage for spare parts and workshop
  - 17 Mechanical-biological waste treatment plant