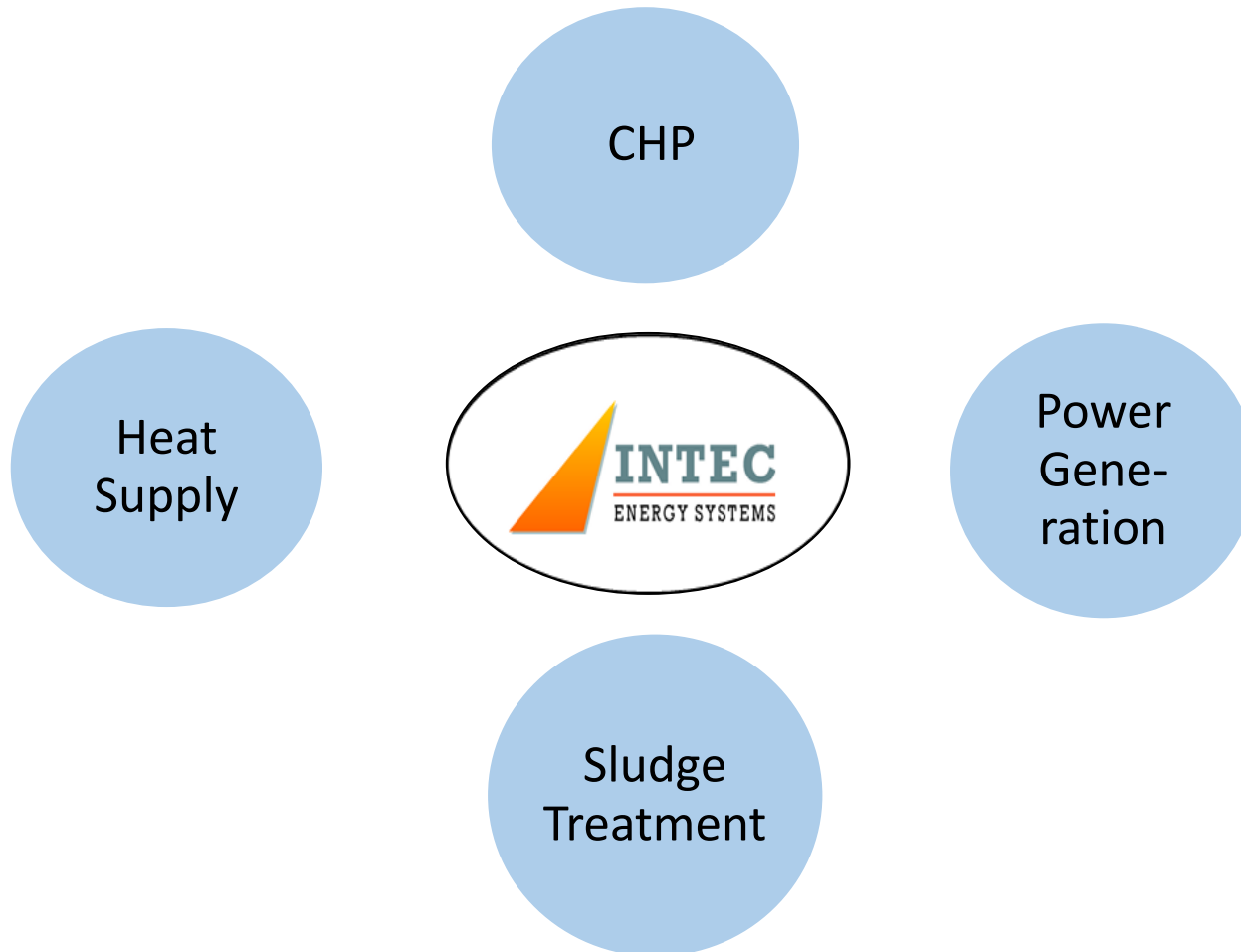


INTEC Engineering GmbH

Process heat and renewable power generation



INTEC Business



Companies within the INTEC group are offering services and equipment for various heat and power applications from one hand.

INTEC Engineering GmbH

Germany



- Founded in 1995, INTEC has developed into an internationally leading company for high temperature process heat supply and green power generation.
- The INTEC group achieves a turnover of 20-40 million Euro p.a. generated by approx. 100 employees.
- Large network of own offices as well as representations around the world.



INTEC Engineering GmbH

Germany

- Project development together with customer
- Complete design and engineering of the plant by INTEC engineers
- Manufacturing of key components at INTEC production facility in Germany
- Local manufacturing of components by customer or turn-key installations possible
- Experienced service engineers installation supervision and start-up
- After sales support



INTEC Engineering GmbH

Status Quo

- More than 2100 installations in 75 countries
- More than 7300 MW thermal energy installed
- Participated in projects with more than 730 MW electrical energy installed

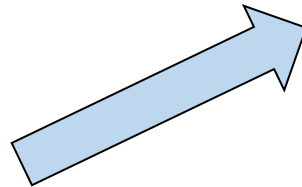
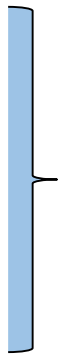


INTEC Products

Heating solutions

Heat Transfer Medium

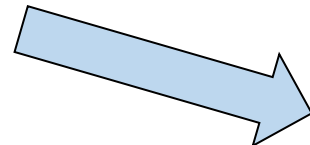
- Thermal oil
- Steam
- Hot water
- Warm water
- Hot gases



Oil / Gas fired
heaters
Electrical heating



Waste heat
Recovery
boilers



Solid fuel fired
thermal plants

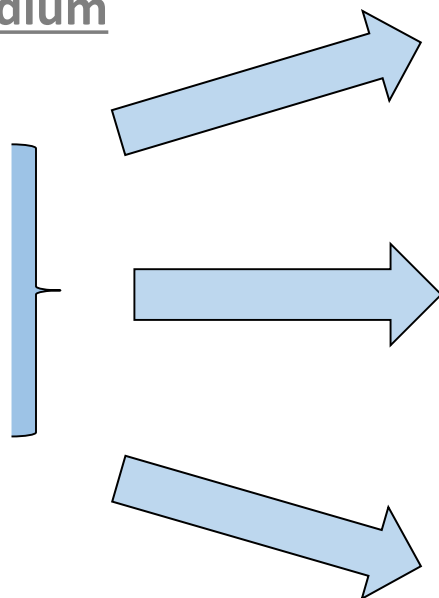


INTEC Products

Power generation solutions

Heat Transfer Medium

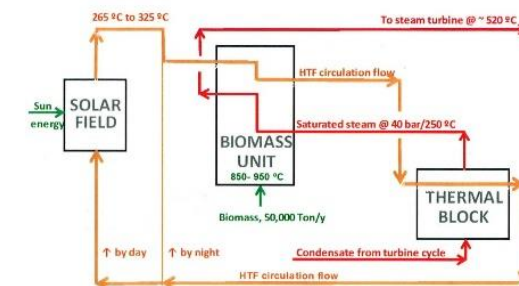
- Thermal oil
- Steam
- Hot water
- Warm water



Steam turbine



Hybrid power
plant
CSP/Biomass



ORC power
generation module



INTEC Products

Renewable power generation from biomass



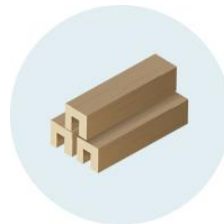
-> biofuels

Sewage sludge,
livestock excreta



-> wood biomass

Wood chips,
bark, sawdust



-> building material
waste

Waste building
material



-> general biomass,
agricultural waste

Rice husk, coffee
pods, PKS, cotton
stalks, sunflower
seed hull



-> municipal waste,
organic biomass, RDF

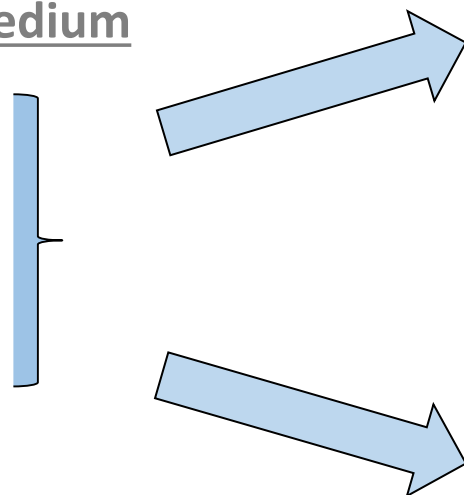
Pruning, wood
debris, paper, food
waste, textiles

INTEC Products

Sewage sludge drying & incineration

Heat Transfer Medium

- Thermal oil
- Steam



Sludge drying



Sludge
incineration



REFERENCES

Wood waste fired hot gas generator with thermal oil heating system and steam generation



Firing Capacity: 60 MW
Step grate firing: 45 MW,
Sander/screen dust: 19 MW,
Thermal Oil heater: 25 MW,
Indirect steam generator: 15 MW,
Hot gas: 34 MW
Installation: Spain
Customer: Kronospan (Unopan)

REFERENCES

2 MWe Power Generation Plant in Abashiri/Hokkaido



Installation: Japan
Customer: Wind-Smile

REFERENCES

Co-generation plant with rice husk combustion



BUAYAI BIO POWER

Firing Capacity: 30 MW
Electrical output: 6 Mw_{el},
Steam for rice mill production
(paddy dryers etc.)
Fuel: Rice husk
Installation: Thailand
Customer: BBP

REFERENCES

Fluidised bed combustion (FBC) system for steam and power production



 **KOLON INDUSTRIES**

Total output: 15,5 MWth

Fuel: SRF, fluffy plastic

Installation: Incheon / South Korea

Customer: Municipality Incheon

REFERENCES

Power plant with step grate combustion



Firing Capacity: 40 MW
Electrical output: 13.5 MWeI,
Fuel: Textile, chicken litter
Installation: Turkey
Customer: Ecogreen

REFERENCES

Hybrid solar-biomass plant in Spain
(worldwide the only one in commercial scale)



Firing Capacity: 2 x 25 MW (biomass),
6 MW Gas fired Thermal Oil Heater

Electrical net Output: 22,5 Mwe
Yearly Power Production: 98.000MW
181.000m² Collectors installed on
700.000m² Land

Installation: Spain

Customer: Thermosolar Borges

REFERENCES

**Coal fired fluidised bed combustion (FBC) system
for thermal oil heating with flash tank**



Total output: 2 x 13,8MW (Anthracite Coal)

Thermal oil system: 2 x 11,6 MW

Installation: Taiwan

Customer: Lea Lea Synthetic Fibre

REFERENCES

**Sewage sludge dryer and incinerator
for steam and power production**



Firing Capacity: 5,7 MWth
1 Mwe Power Production
Fuel: Sewage Sludge
Installation: Karlsruhe, Germany
Customer: City of Karlsruhe

INTEC Group

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