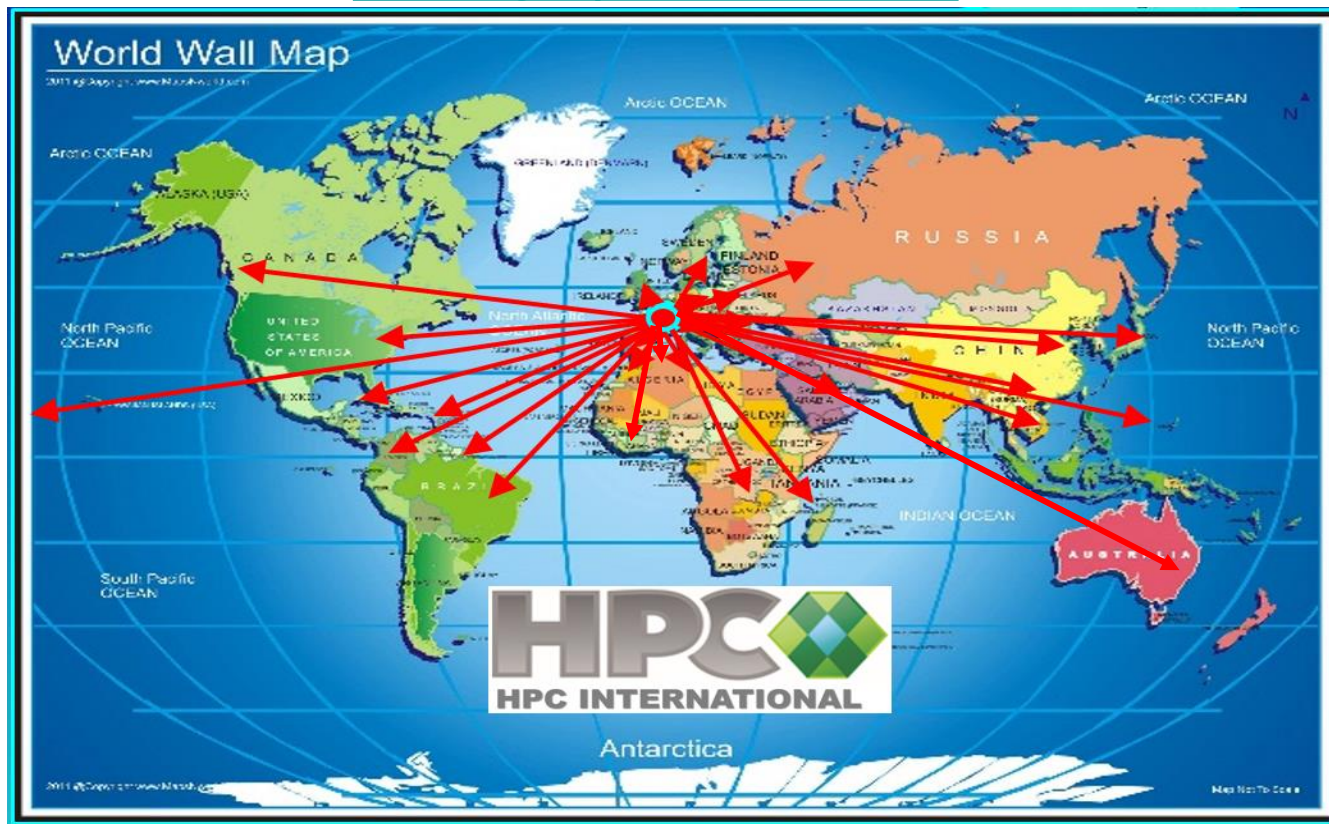


HPC INTERNATIONAL SAS

Up-date: 1st of Jan. 2020

For more up-dates ask Dr. Frank KARG

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HPC Group & INOGEN Joint Venture Company

Global thinking



Local delivery

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HPC: Engineering - Investments - Realizations

Renewable Energies



Infrastructure



Mining & Minerals



Industry



Agriculture



CWA Treatment



Environment & Health



Education





HPC Activités: Infra Structure

- ***Renewable Energies: Biogas, Hydroelectric, Pyrogas, Geothermic etc.:*** Project & Investment Design, Engineering, Planning, Execution and Construction Control and EPC assistance.
- ***Industrial Projects: Investment Safety and M&A: Merger & Acquisition, Planning, Authorizations, Site Shutdown, etc.***
 - Chemical & Petrol Industry,
 - Pharmaceutical Industry,
 - Auto-Motive & Electro-mechanic Industry,
 - Energy Industry (Nuclear and non-Nuclear),
 - Military Industry,
 - Agro-alimentary Industry.
- ***Real Estate Projects:*** Site Management, Facility Management, and Construction & Development & Investment Safety.
- ***Urban Development Planning.***





HPC: Engineering - Investments - Realizations

Renewable Energies

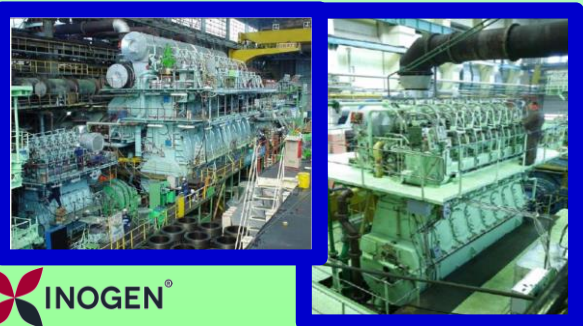
Solar & Wind Energy



Bio-gas & Electricity



Geothermal & Hydropower



Pyrogas & Electricity





HPC: Bio-gas References



Germany:

- **Organic Waste: about 160 000 t/y**
- **Bio-gas: about 21 Million m³/y**
- **Bioenergie Dorsten GmbH**
- **About 18 Million Euros €**

Germany:

- **Organic Waste: about 53 000 t/y**
- **Bio-gas: about 700 Nm³/h**
- **Bioénergie-Erzeugung Koblenz**
- **About 16 Million Euros €**





HPC: Bio-gas References

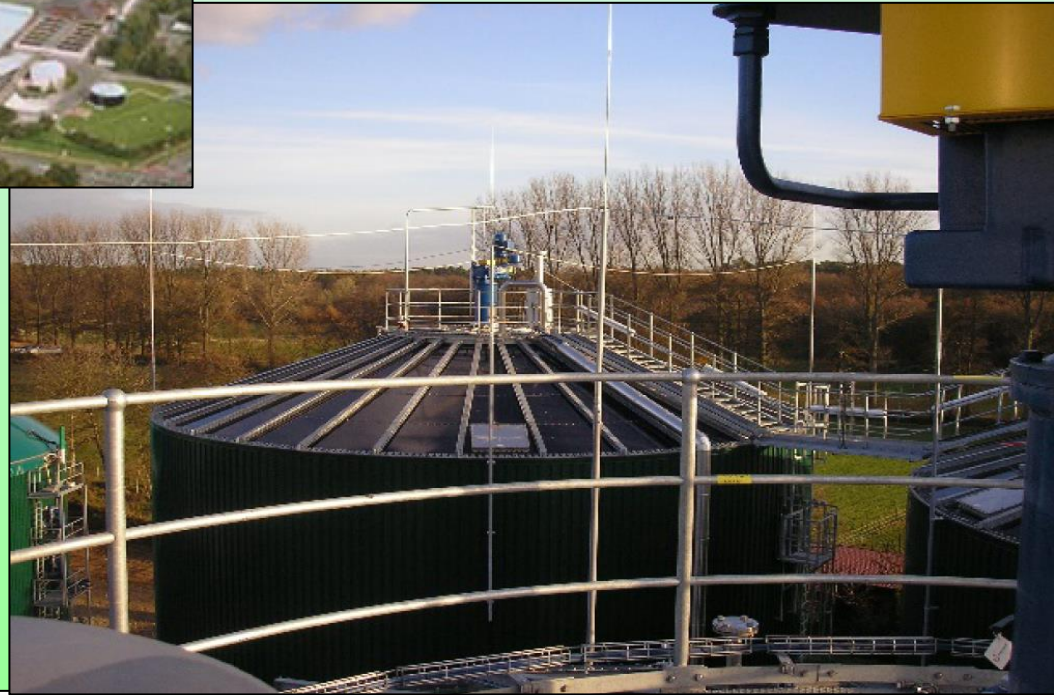


Germany:

- **Organic Waste from Waste Water Treatment Plant**
- **Bio-gas: Production Extension for WWTP for 1.2 Million Habitants**
- **Client: Confidential**
- **About 210 Million Euros €**

Luststadt / Germany:

- **Organic Waste: from Agriculture**
- **Bio-gas: about Confidential**
- **Client: Confidential**
- **About 4.9 Million Euros €**





HPC: Bio-gas References



Biogas Plant/Germany:

- **Organic Waste: about 26 000 t/y**
- **Fermenters: 6 000 m³**
- **Saelhuysen GmbH & Co. KG**
- **About 3.2 Million Euros €**

Biogas Plant/Germany:

- **Organic Waste: from Agriculture**
- **Bio-gas: 9 000 m³ Digesers**
- **Client: Confidential**
- **About 5.3 Million Euros €**





HPC: Bio-gas References



Bigas Plant / Germany:

- **Organic Waste: Agriculture Waste**
- **Bio-gas: Digesters 9 000 m³**
- **Client : Confidential**
- **About 2.2 Million Euros €**

Germany:

- **Organic Waste: about 46 000 t/y**
- **Bio-gas: Digesters for 27 900 m³**
- **Client: Confidential**
- **Confidential costs**
- **Extension for Waste Water**

 **INOGEN® Treatment Plant**





HPC: Bio-gas References



Germany:

- **Organic Waste: WWTP Sludges**
- **Bio-gas: Digestors for 9 000 m³**
- **Client: Confidential**
- **About 18 Million Euros €**
- **Extension for Waste Water Treatment Plant**

Germany:

- **Organic Waste: WWTP Sludges**
- **Bio-gas: Digestors for 10 500 m³**
- **Client: Confidential**
- **About 12.3 Million Euros €**
- **Extension for Waste Water Treatment Plant**



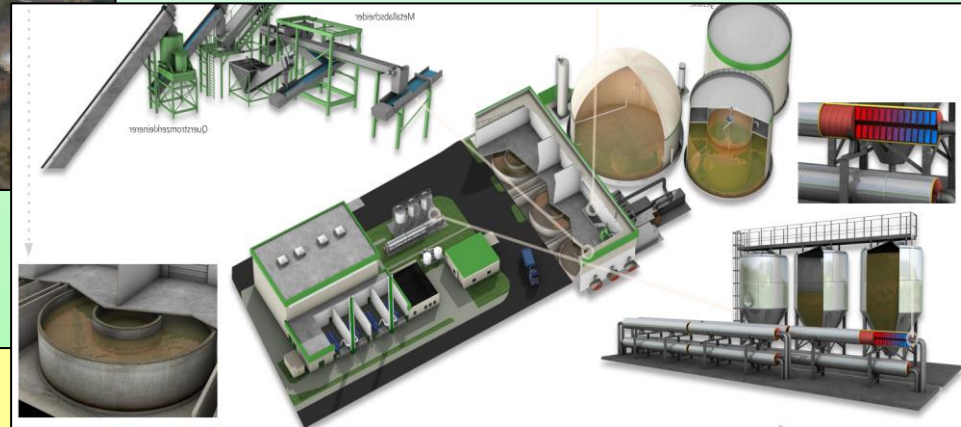


HPC: Bio-gas References



Romania:

- **Organic Waste: WWTP Sludges**
- **Bio-gas: Digestors for 12 000 m³**
- **Client: Confidential**
- **About 25 Million Euros €**
- **Extension for Waste Water Treatment Plant**



Germany & International:

- **Organic Waste: Staw (capable for Rice Straw und Rice Husk)**
- **Costs : to be calculated.**
- **Capacities: To be determined**





HPC: Bio-gas References



Germany:

- **Organic Waste: WWTP Sludges**
- **Bio-gas: Digestors for 9 000 m³**
- **Client: Confidential**
- **About 18 Million Euros €**
- **Extension for Waste Water Treatment Plant**

Germany:

- **Organic Waste: WWTP Sludges**
- **Bio-gas: Digestors for 10 500 m³**
- **Client: Confidential**
- **About 12.3 Million Euros €**
- **Extension for Waste Water Treatment Plant**





HPC: Bio-gas References



Germany:

- **Organic Waste: WWTP Sludges**
- **Bio-gas: Digestors for 9 000 m³**
- **Client: Confidential**
- **About 18 Million Euros €**
- **Extension for Waste Water Treatment Plant**

Germany:

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HPC: Bio-gas References



Germany:

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- **About 18 Million Euros €**

Germany:

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- **Bio-gas: about 700 Nm³/h**
- **Bioénergie-Erzeugung Koblenz**
- **About 16 Million Euros €**





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