

Competence and close partnership for locally-adapted energy solutions



INTECUS GmbH

www.intecus.de

Energy-Efficiency in the Industry,
Thessaloniki 13.05.2025

Intecus GmbH : Ingenieurgesellschaft für Technischen Umweltschutz

- Established: 1991 / 1993 in Dresden and Potsdam
- Directors: Prof. Dr.-Ing. habil. Dr. h.c. Bernd Bilitewski, Founder /
Dipl.-Ing. Jörg Wagner / Dipl.-Geol. Roman Dinslage
- Employees: 10 (8 Grad.-Eng., 2 Assistants)
- Focus: Waste Management & Renewable Energy
Planning and Consulting
Technical studies and expertise,
Research & Development, Training
Municipal and sectoral waste management
Resource efficiency, process design, planning and optimization
Permitting, procurement and tendering procedures
Cost assessment and recovery
Landfill management, -sanitation, degassing and afteruse with PV
Rooftop PV-installations, freespace PV plants

International outreach

- Projects in over 30 countries implemented
- Established business contacts in many other states
- Working for e.g. European Commission, EIB, IFC, World Bank, KfW and development agencies like the GIZ, ministries, environmental authorities and the global industry



Our Service portfolio

**Design engineering, support in
plant permitting, startup and
optimization support for SWM and
renewable energy projects**

**Landfill construction, remediation
and aftercare planning**

**Planning and development of
renewable energy projects**

**Renewable energy project
implementation in cooperation
with EPC and investors**

**Steering instruments and
financing schemes for waste
management**

**Waste-to-Energy concepts and
services**

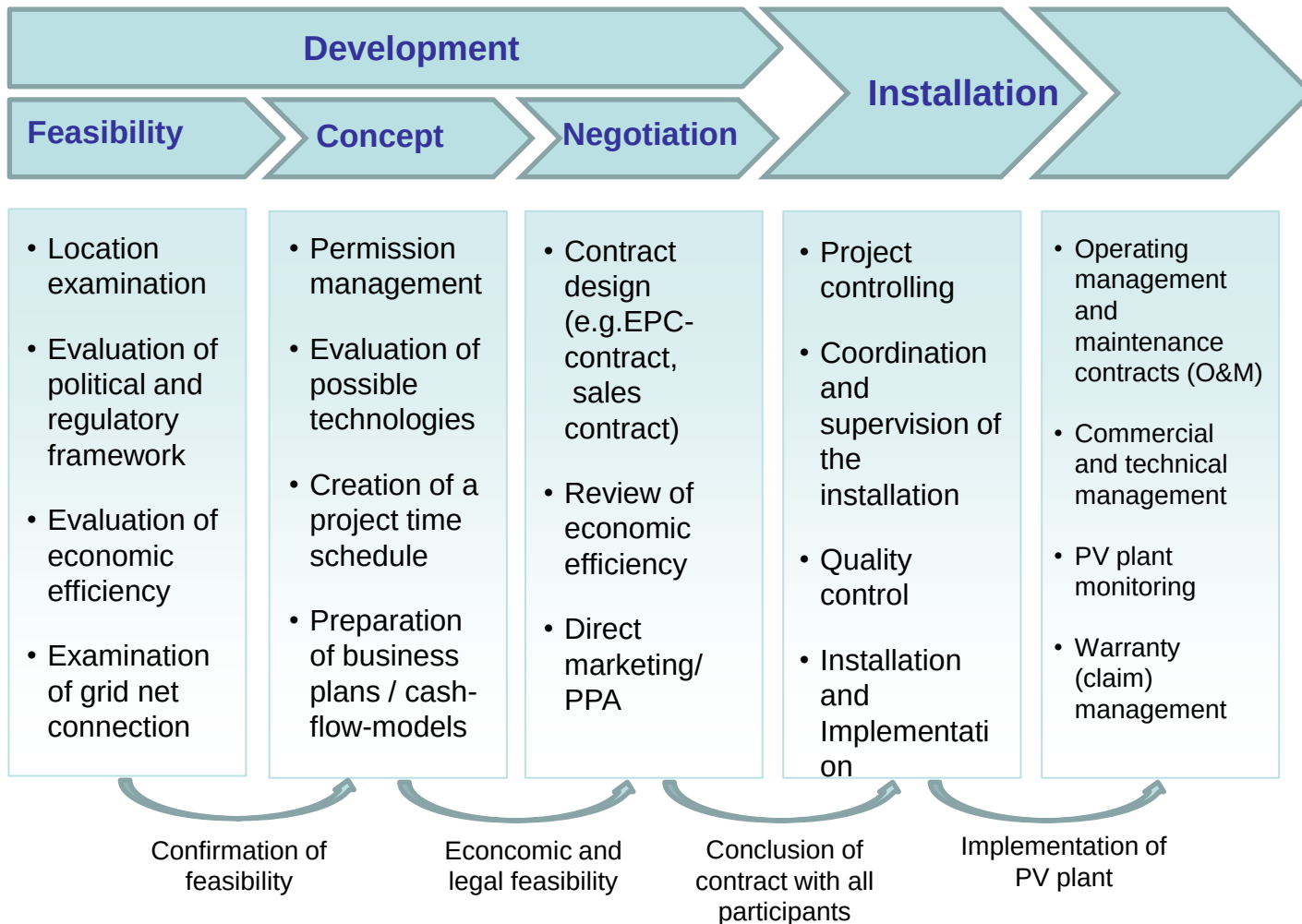
**Waste collection systems and
logistics management**

**Industrial waste management
and cleaner production concepts**

**International waste management
consultancy and capacity building**



Our experience for your photovoltaic project



Rehabilitated landfill with slope-parallel PV-Installation

Falkensee, Germany; 2 MWp, 2016



PV-Installation with slope parallel mounting



Remediated landfill with PV-installation

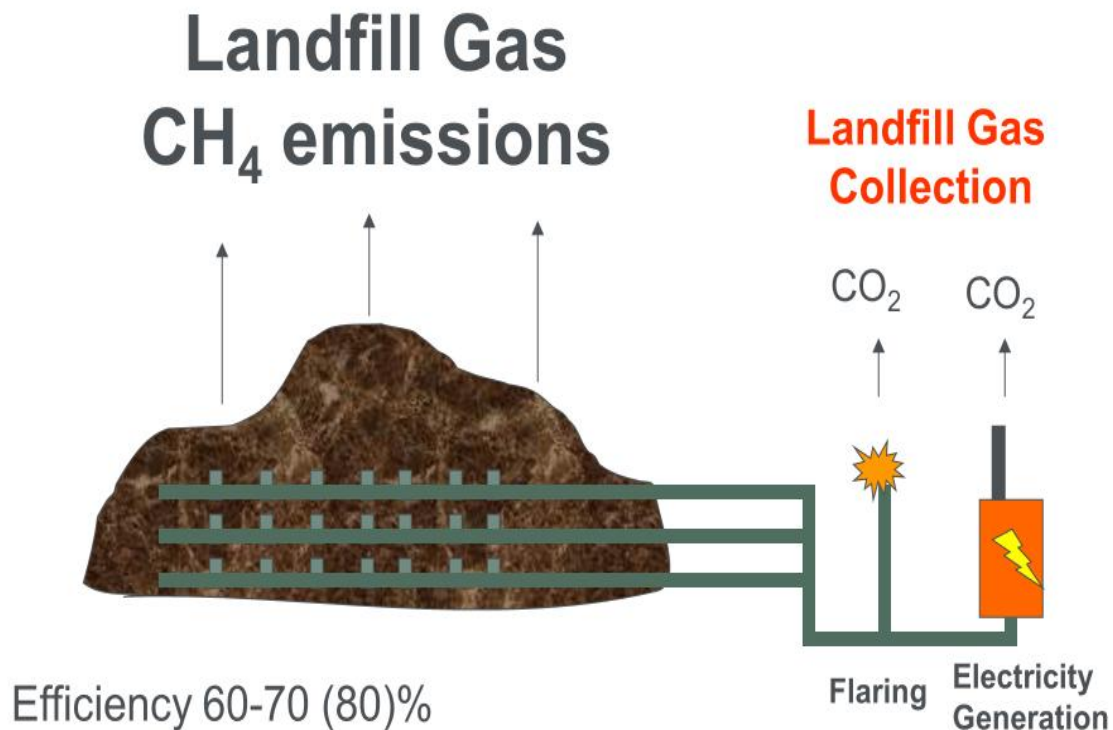


Experienced in closure and remediation designing, landfills
afteruse as energy production sites with
active landfill gas extraction and pv-plants on top

- Closure strategy of an open landfill site or even a dumping area, calculation of landfill gas potential
- Surface sealing design, if applicable sanitation by an active degassing system and with a leachate treatment system to protect groundwater
- If applicable design of an extension area with sanitary landfill standard to speed up closure of existing open site
- In case of installation of an active degassing system: energy production with landfill gas by gen-sets with a significant climate protection effect

Conversion of Methane to CO₂

Reducing greenhouse gas emission from waste:



Typikal PV-array on a closed and rehabilitated landfill site



Landfill site Horstfelde, 2.5 MWp with different realization times



Over 50 MW_{peak} PV-power installed on closed landfill sites



Rooftop PV-installation (2013) on a building of German Environment Agency (UBA), 200 kWp



Rooftop parallel PV-installation with thin-film modules 40 kWp (2012)



First rooftop installation with an Aero-System on an industrial building without penetration of sealing (2011)



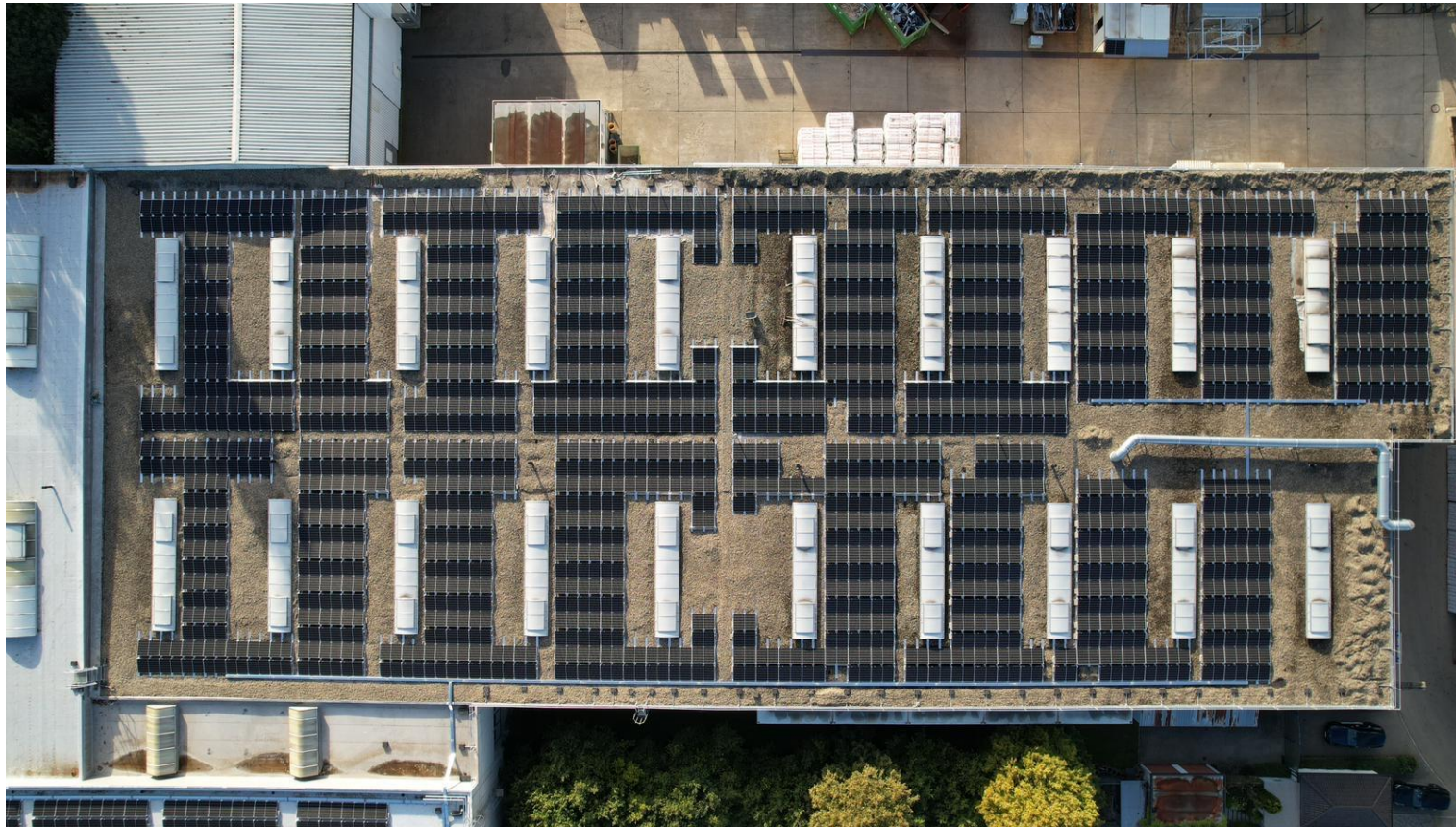
Rooftop installation with east-west inclination



Rooftop installation with roof-parallel mounting



Typical rooftop PV-installation with east-west orientation on a commercial hall



Modules to the horizon



Carport-installation



Mission accomplished



Your contact:

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