

I+M GmbH & Co.KG - Innovation und Management

POINT (8.9236615 48.26245)



**More than 20 years Bridge and STP construction,
more than 15 years experience in Sludge Drying
– that's i+M GmbH & Co.KG.**

i+M GmbH & Co.KG with its founder Richard Zizmann is known as premium supplier of innovative and patented EDZ and i+M drying plants for various sludges. We know our systems from sketch until the final screw and deliver solution oriented consulting and planning for drying and energy concepts.

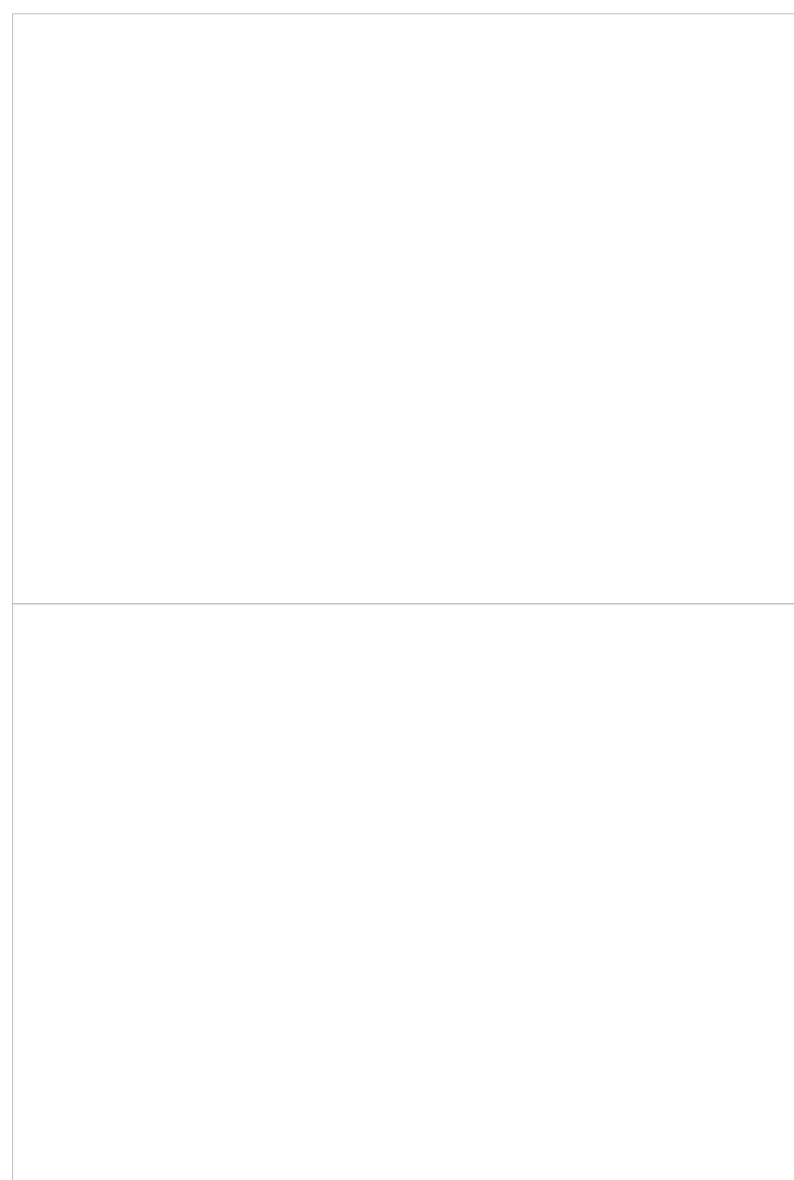
Performance Plus+

Considering 8,700 operating hours per year we are realizing drying plants today with focus on future performance requirements and ways of utilization. Additionally i+M GmbH & Co.KG is specialized in improvement and retrofitting of existing solar plants no matter which system's supplier.

Dough Drying

Sewage sludge drying and other organic or non-organic material makes an important contribution to water protection, is source for phosphate recycling and reduces the utilization of fossil fuels.

Dried sludge is CO₂ neutral RDF with an energy value comparable to brown coal lignite.



i+M Fuelling the future

i+M Solar Combined Sewage Sludge Drying

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Company History + References

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Europe (without Danube region)

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Danube region

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North America

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 - [Renewable energies](#)
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 - [Environmentally friendly use of fossil fuels](#)
 - [Cogeneration power plants \(power-heat-coupling\)](#)
 - [CO2-free energy generation \(carbondioxide capture and storage CCS\)](#)
 - [Exploitation of waste heat](#)
 - [Storage technologies](#)
 - [Thermal storage of energy \(e.g. latent heat storers, geothermal reservoirs\)](#)
- [Energy Efficiency](#)
 - [Energy efficient production methods](#)
 - [Energy efficiency in the cement industry](#)
 - [Crosscutting technologies for industry](#)
 - [Drying systems](#)
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 - [Recycling of urban waste](#)
 - [Recycling of organic waste](#)
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 - [Sludge treatment \(e.g. gasification\)](#)
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- [Soil Protection](#)
 - [Soil protection](#)
 - [Prevention and reduction of soil pollution](#)
- [Air Pollution Control](#)
 - [Exhaust purification](#)

2010

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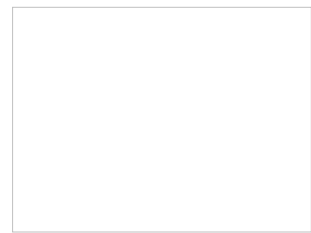
1 M€ - 5 M€

[Consultant](#)

[Engineering Company](#)

[Manufacturer](#)

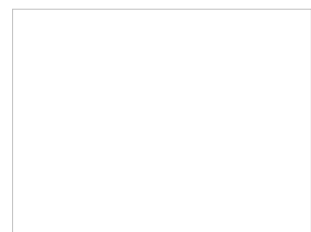
60/60 Interval



Turning System

The special ease how the 2.2-4kW i+M's Zizmann-System moves the sludge on 1,000m² is incomparable: Similar to a chain conveyor in the WWTP's secondary clarifier it offers a soft, close to floor and area wide drying. Turning in minute interval generates new surfaces and increase significantly the drying performance.

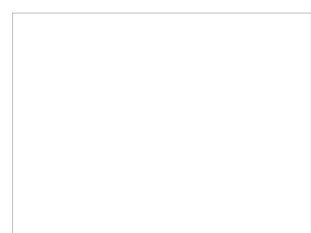
160,000m³ per 1,000m²



Air Management

Adjusted air flow and air speed leads warm fresh air according medium's dry substance content directly above the drying surface and transports wet air out of the drying hall. Beside the extraordinary air saturation the effect of evaporation cooling shows positive results against occur of odor emissions.

PLUS+

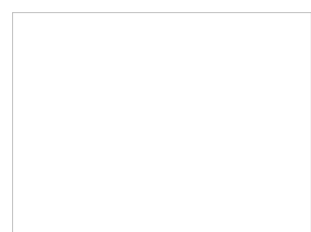


Synergy Heating

Ready for more sludge volume without additional invest?
Utilization of surplus heat 55-95°C out of external processes makes the big difference at i+M-DryingPlants:

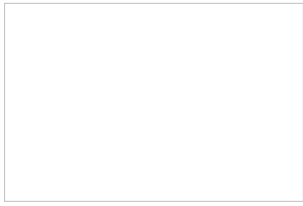
Heat recovery on WWTP
Heat utilization CHP, district heat
Post operation after high temperature plants.

Reference plant 1



Drying plant with integrated dewatering unit inside the drying hall. Direct feeding on the drying area. Feeding with sludge pump (2% DS), storing with concreted underground bunker and chain conveyor as output system (90% DS).

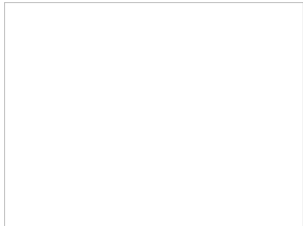
Reference plant 2



Private drying plant with a drying area of 1050m².

5000ton/y of dewatered sewage sludge gets collected from 5 several WWTP and becomes dried up to 90% DS. Waste heat utilization: Biogas CHP.

Business



Hybrid (90% TS) - with heat use

SSDP Sulz (1 location, 2 plants)
SSDP Dornhan
SSDP Zwiefalten
SSDP Gärtringen
SSDP Xinjiang, China

Solar < 90% - ready for 90% DS

Thinking economically is foresighted thinking.

For managing increasing amounts or using different ways of disposal, following solar plants are prepared with floor heating:

SSDP Kißlegg
SSDP Mugla, Türkei
SSDP Gujarat, Indien (partial)

Air Treatment

The combination of fast interval turning system and adjusted air management is the reason for less i+M-DryingPlants that are equipped with air scrubber. SSDP Noerdlingen collects sludge from different WWTP, also olfactory problematic sludge. The installation of a chemical washer in combination with high chimneys was the solution for this plant.

Digester / STP

The range of i+M business covers surveying, consulting and improvement of WWTP operation incl. improvement and construction of digester and other WWTP related construction.

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