



Best practise examples within the Eco- Management and Audit scheme - EMAS

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EMAS in Austria

- Numbers and Figures: 287 Registrations with more than 1000 sites

- Legal background

National implementation: Environmental Management Act (including simplification of administration for EMAS Organisations, requirements for EMAS verifiers)

Legal incentives for EMAS Companies in Austria

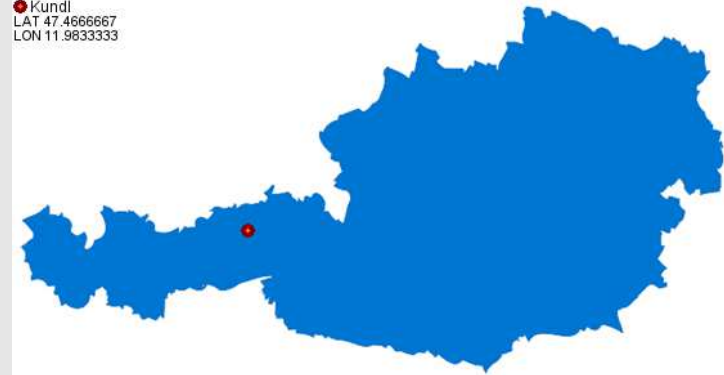
- Dispensation from reporting obligations (f.e. waste management concept)
- Dispensation from self-monitoring
- Limitation of official control obligations (reduced intervals)
- Dispensation from administrative fines if EMAS is implemented
- Dispensation from obligation to appoint a responsible Person (f.e. waste officer)
- Issue of a consolidated approval notice
- Changes to facilities: no permission is required

Best Practise Examples

SANDOZ GmbH – medicinal product manufacturer, production plant in Tyrol, Kundl (biggest production plant of SANDOZ world wide - antibiotics) and Schafteuau (hormones)

- 18 years of EMAS
- 13 years ISO 14001
- 8 years OHSAS 18001
- 5 years energy management system
- 22 years „Responsible Care“
- 4000 employees in Austria
- 1 of 12 SEVESO plants in Tyrol

● Kundl
LAT 47.466667
LON 11.983333



Main impacts on the environment

- Energy consumption (heat, electricity) -> emissions (CO₂, NO_x)
- Waste water
- Waste (11,000t)
- Use of Raw materials
- Water consumption

Legal compliance of SANDOZ

- Legal register related to HSE, yearly actualisation by external experts
- Continuous monitoring of legal development and continuous information of relevant departments about new requirements
- Surveillance checks managed by SAP (email-reminder)
- Walk-through inspections (approx. 630 per year)
- Legal Compliance related to environment is checked on a yearly basis within the internal and external audit and assessed by EMAS certification

Legal requirements

- Waste water: emission measurement: waste water treatment plant-self and external monitoring
- Waste: Regular actualisation of waste concept (since 2010 no requirement for EMAS companies), control of abidance of Austrian waste management law and the associated regulations, internal auditing of waste collection infrastructure
- Emissions: measurement of emissions of boiler houses, thermic discharged air facility, solvent contaminated air washer- and activated carbon filter for solvent contaminated air treatment
- Soil: f.e. yearly measurement of soil gas in areas, where chlorinated hydrocarbons are in use
- Yearly preparation and notification of VOC (Volatile Organic Compounds) balance

Main achievements conc. Env. performance

Sandoz = frontrunner, influence on legislation (storage guidelines)

- Reprocessing fungal mycelium into fertilizer
- Reduction of household waste by 40 % since 1990
- Circulation process for solvents, recycling rate of 96%
- Replacement of chlorinated hydrocarbons with more environmentally friendly organic solvents
- Waste heat use (district heating community Kundl)
- Several energy efficiency projects (f.e. replacement of energy intensive steam sterilization)

Best Practise Examples

Rich. KLINGER Dichtungstechnik GmbH & Co

- Production of sealing materials
- Founded in 1893, located in Gumpoldskirchen, near Vienna
- 94 employees
- EMAS company since 1998
- Integrated Management System (9001, 14001 and EMAS including health and safety)
- Two main products (Klingersil and Klinger top chem)



Main impacts on the environment/health

- Emissions
 - Soil
 - Dust
 - Noise
 - Solvent emissions (approx. 2 Mio. kg solvents p.a.)
 - Waste
- Raw material input (3,56 t, mineral fillers 53%)
- Waste
- Water
- Natural gas/electricity

Organising legal compliance at Klinger site



Main legal requirements

- Efficient emergency Management
- VOC (volatile organic compounds) Regulation - submission of a solvent balance
- VEXAT – explosion protection (preparation of documents)

Main achievements

- Solvent recycling (recover rate of 95.4%)
- Reducing solvent emissions to approx. 50%
- Waste recycling system
- Better accident rate in last 3 years (10 in comparison to 18)
- Consolidated permit

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