



Partner of



Environmental Concepts Exchange Association e.V.

E.C.E.X.A.
concepts



Modular and Dynamic Water Treatment Technologies

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- ▶ Advantages
- ▶ Product Overview
- ▶ Project Development
- ▶ Examples of Installations
- ▶ Costs
- ▶ Objectives

INNOVATION - Made in Austria

Modular and Dynamic Water Treatment Technologies



About E.C.E.X.A.

- ▶ Almost **50 years of experience**, more than **400 installations** and satisfied investors characterizes us as a quality- and customer-oriented company.
- ▶ Our team consisting of senior process Engineers, industrial process programmers, technical drawers, certified project managers and mounters, with the accurate objective to bring ideas and designs from paper to full satisfaction working water treatment plants for you.
- ▶ Flexibility, high-performance, and high potential for innovation also characterize us for standard or custom tailored water treatment solutions.
- ▶ Our multilingual execution teams carry out assembly and supervising tasks in a determined quality-oriented manner and are specifically trained for international projects.

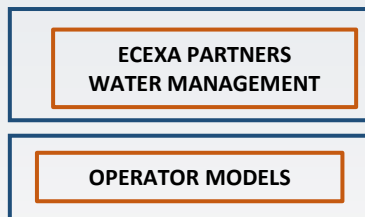
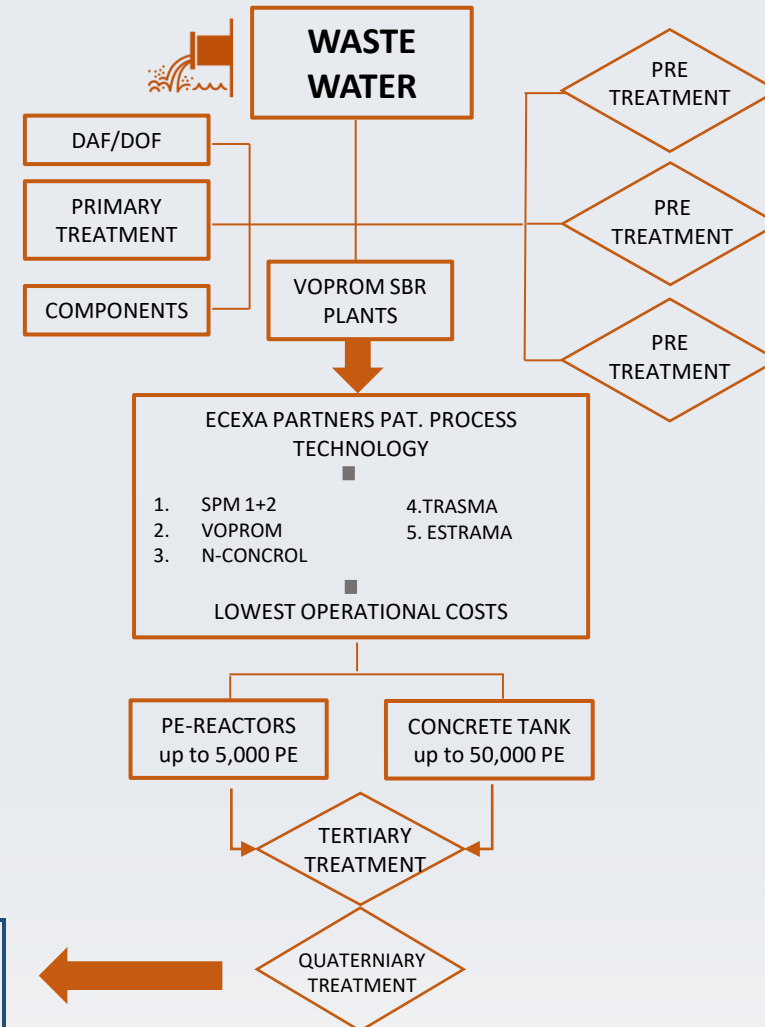
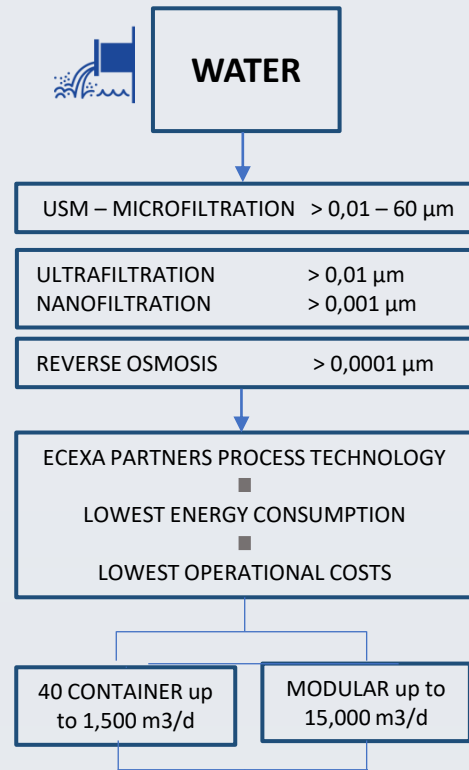


ÖSTERREICHISCHER WASSER- UND ABFALLWIRTSCHAFTSVERBAND



ECEXA – a team dedicated to water processes, technologies & infrastructures

Product Overview



Solutions and Applications

DAF/DOF FLOTATION

→ APPLICATIONS:



- ▶ 100 to 2000m³/d per unit
- ▶ Various pre-treatment processes
- ▶ Wastewater & Drinking water process
- ▶ Fine suspended solids recovery
- ▶ Including oxidation & disinfection
- ▶ Classical DAF or with Ozone (DOF)

ECO MEMBRANE FILTRATION



→ APPLICATIONS:

- ▶ 250 to 1.500m³/d per skid unit
- ▶ Plant designs up to 30.000m³/d
- ▶ Process and drinking water systems
- ▶ Modular & adaptive design
- ▶ Automatic supervision

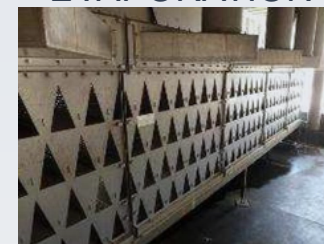
RSF & RCF FILTRATION



→ APPLICATIONS:

- ▶ 50 to 1000 m³/d per unit
- ▶ Easy evolutive and extendable
- ▶ Continuous & automatic operation
- ▶ Many filtration media for : TSS, P., Ar.,
- ▶ Fe., Zn., Al., Cr., Co., Ni. Removal.
- ▶ Including Flocculation & Coagulation

ECEXA PARTNER EVAPORATION



→ APPLICATIONS:

- ▶ 10 to 100 m³/h
- ▶ Modular, evolutive and extendable
- ▶ Adaptable to a large type of water
- ▶ Very low ire-investments
- ▶ Virtually no maintenance
- ▶ High energy efficiency heat losses <2kWh/m³

Product Overview

DF DISC FILTERS



→ APPLICATIONS:

- ▶ μ Filtration 50 to 5000 m³/d
- ▶ For all our WTP and WWT Plants
- ▶ Access to ECEXA partner remote support
- ▶ Continuous & automatic operation
- ▶ Easy maintenance and spare availability

OZONE OX & DISINFECTION



→ APPLICATIONS:

- ▶ O₂ & O₃ production process units
- ▶ Modular, evolutive and extendable
- ▶ Direct onsite production (no more logistics management for chemicals)
- ▶ Large scale: Ar., Fe., Zn., complete
- ▶ pathogen removal & safe water

PBF MICROFILTRATION



→ APPLICATIONS:

- ▶ 800 to 8000m³/d per unit
- ▶ Various pre-treatment processes
- ▶ Microfiltration for advanced perf.
- ▶ Suspended solids recovery for Reuse
- ▶ Large scale deployment
- ▶ Clean coast project

CWWTP NANO FLO & OZONATION



→ APPLICATIONS:

- ▶ 500 to 60.000m³/d
- ▶ Water reuse and zero Discharge
- ▶ Adaptive design
- ▶ Various industrial applications
- ▶ Chemical industries, Oil & Gas, Construction, ...

Product Overview

VOPROMPE SBR



→ APPLICATIONS:

- ▶ 50 to 1000 m³/d and up to 5000 PE
- ▶ Modular, evolutive and extendable
- ▶ Adaptable to any situation
- ▶ Designed for long lifetime > 50years
- ▶ Biology and Sludge management
- ▶ Rainwater Management

SED SLUDGE DEWATERING



→ APPLICATIONS:

- ▶ Up to 100 m³/h
- ▶ Modular, evolutive and extendable
- ▶ Adaptable to a large type of sludges
- ▶ Sludge and Waste management
- ▶ Lowest possible operating costs
- ▶ Operator friendly

VOPROM CR & ESTRASMA



→ APPLICATIONS:

- ▶ 300 to 4000 m³/d and up to 20.000 PE
- ▶ Modular, evolutive and extendable
- ▶ Adaptable to any situation
- ▶ Designed for long lifetime > 50years
- ▶ Biology and Sludge management
- ▶ Rainwater Management

PROCESS PROGRAMMING & REMOTE SUPPORT



→ APPLICATIONS:

- ▶ For all our WTP and WWT Plants
- ▶ Access to ECEXA partner remote support
- ▶ Realtime support and management
- ▶ Online process management
- ▶ Many languages available (EN, DE, FR, SRB-HR, ES & More to come !)

Project Development

❖ PHASE 1 - Shared the definition of the requirements, priority objectives and methods in order to achieve them

- ▶ Objectives and expected benefits
 - Social, Economical & Infrastructural growth and needs
 - Municipal & industrial modernization
 - Accordance with rules of law
 - Assessment to the stakeholders
- ▶ Availabilities and infrastructural needs
 - Taking into account local challenges
 - Definition of the required treatment performances
 - Execution priorities
- ▶ Execution and operation capabilities
 - Sustainability of the project
 - Definition of the involved execution partners and teams
 - Capacity to operate and finance the running costs

❖ PHASE 2 – Conception & realization

Project management –
from studies to the
fulfillment

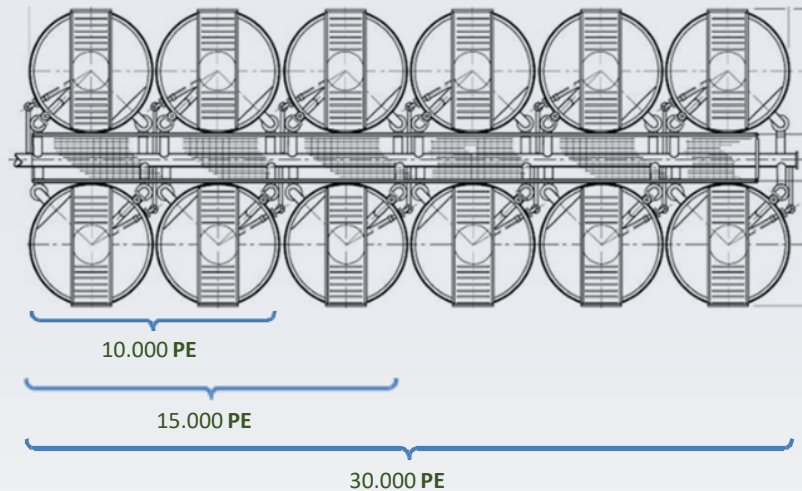
our availability for
answering to all
your requirements



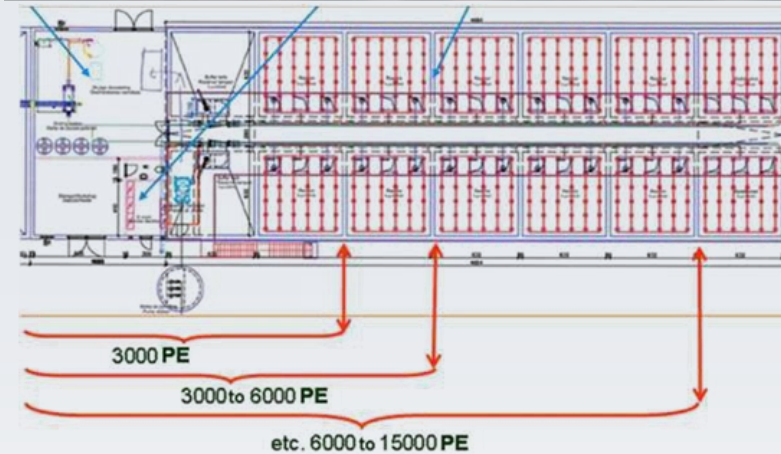
References

ECEXA partner standardised processes and treatment plants our outstanding design and construction form

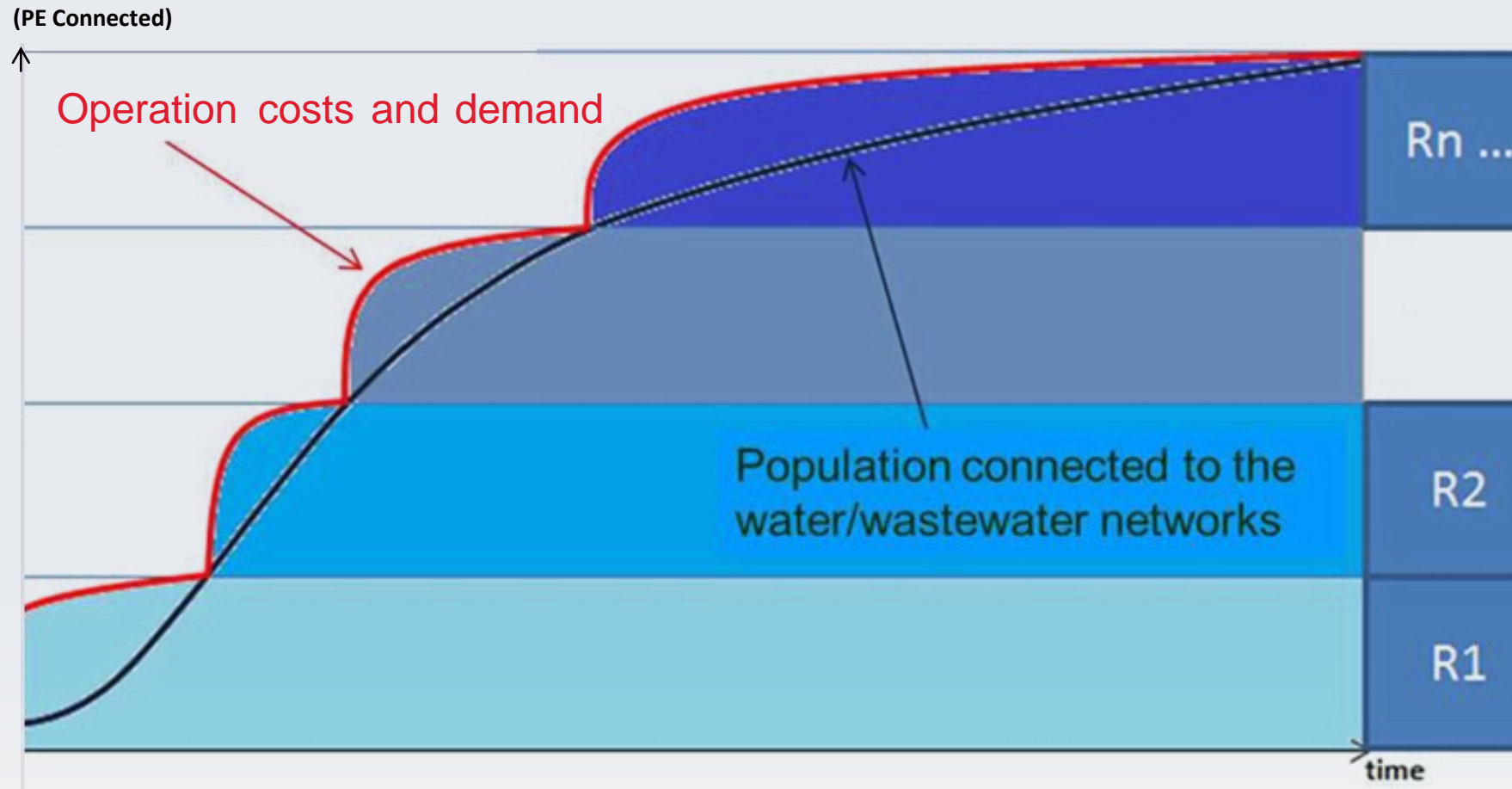
Example for
TAPWATER / DRINKING



Example for
WASTEWATER



Flexible and adapted operating costs



Objectives are to reduce

- ➡ The impact on the environment
By offering an efficient purifying process throughout the year Protected from external influences, neither emit odors or noise Easily integrating into the landscape.
- ➡ The financial impact
The objective of our solutions is to integrate high-end technologies only when they make a real reduction in operating costs.
- ➡ The human impact
Reduced operating time via a complete automation system, complex tasks are supported by automation, so that human operating errors are avoided

Facilities offering full control and autonomy to the owner and operator

ECEXA Water & Waste Water Technologies

- Fully biological water treatment for potable water, industrial water, wastewater
- Water and sewage sludge treatment plants also for small communities)
- Micro-drinking water treatment plants
- Drinking water treatment of river, surface, well water,
- Mobile Water purification
- Water well service, well construction, regeneration
- Air filtration in container
- Irrigation concepts Chad, water loss analysis, optimization of water supply system, pipeline calculation
- Solar well project Africa



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