






The Green Sentinel of sustainability!

The name says it all: we at Green Sentinel see ourselves as pioneer and revolutionary in the field of sewage sludge processing. Both the environment and the plant operators equally profit by using our unique Recovered Sludge Resource Process.




We follow our mission from living our corporate culture, to project execution, supplier requirements resulting in the perfect solution for our customers including maintenance and support.

The Problem in the DACH-area

-  **DISPOSAL COST:** 300 - 500 €/t DM
-  **AMOUNT:** > 2.000.000 t DM
-  **REGULATIONS:** Sewage Sludge is waste & phosphorus must be recycled



The Solution

-  **MAKE SLUDGE VALUABLE**
-  **RECYCLE PHOSPHORUS**
-  **ZERO DISCHARGE**

Simple and ingenious solutions – A HOLISTIC APPROACH!

RSR process (Recovered Sludge Resources)

The sludge is transported from sludge reception 1 to process module 2 by means of a wheel loader or excavator. Alternatively, it is also possible to use a pipe directly from inventory.

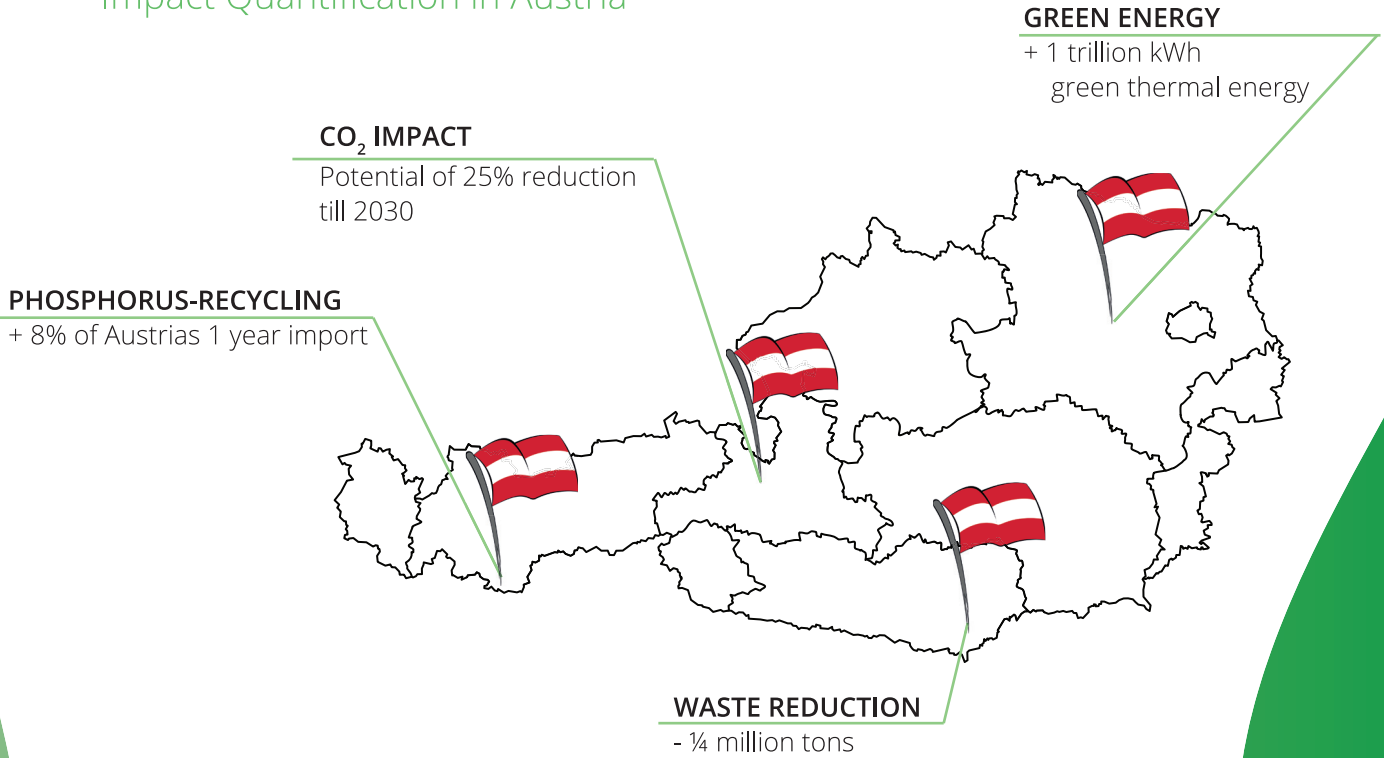
Process module 2 is the core of the RSR process for sludge treatment. With the help of a special solvent (3 Peculeach), up to 80% of the inorganic components are removed from the dry material. These are bottled for further use as NPK fertilizers (nitrogen-phosphorus-potassium fertilizers = 4 Pecuphos) for the chemical industry. At the same time, the remaining substance can be used as high-quality compost (4 Pecugrow) in gardens and in agriculture.

If the resulting sludge is not used as humus, but is further dried (5 drying), a CO₂-neutral biofuel (6 Pecupower®), comparable to wooden pellets, which can be used thermally through combustion and gives off heat back into the system.



- *PecuLeach = activator
- *PecuProp = conditioner
- *PecuPhos = recovery of the pure phosphorus
- *PecuGrow = quality compost
- *PecuPower = CO₂-neutral biofuel

Impact Quantification in Austria



The USP of RSR procedure



WASTE TURNS INTO PRODUCT:

Sludge is transformed into valuable resources



ZERO DISCHARGE:

No new waste



EXTRA - PHOSPORUS & VALUABLES:

Recycling of phosphorus & further valuable substances

Our Team



More Information about Green Sentinel on our Homepage



Home



RSR process



Configurator

tomorrow & you.