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Sludge Drying with Solar and Renewable Energy

The [HUBER Solar-Regenerative Sludge Dryer SRT](#) is able to meet the most different specific customer requirements, whether as a pure solar dryer or all-year-round dryer operated with additional heat. Also the automation degree of sewage sludge feeding and removal is variable.

The combined sludge turning and transporting system is at the heart of the drying plant. The sludge is transported through the hall virtually continuously or as an option in batches. With its double shovel the turning/transporting unit can not only aerate, break up and move the sludge through continuous shovelling but also achieve a controlled distribution of sludge in its shovels. Due to the latter function of the shovel sludge can be back-mixed or sludge feeding and removal take place at the same hall side.

The dryer consists of a transparent thermo shell in which the HUBER Sludge Turner SOLSTICE® distributes the sludge all over the area. The air and sludge bed are heated by solar radiation. In addition heat (for example at 50° C) can be added via floor heating. Heat input via heating coils is also possible (usually with temperatures above 70° C). External heating can be operated with exhaust heat from a block heat and power plant or by means of a heat pump which uses the heat contained within wastewater (WWTP effluent). (See also [HUBER Solution Sludge Drying with Wastewater Heat](#))

If an additional external heat is used, space requirements are smaller compared to pure solar drying and plant operation is possible all year round even in areas offering only moderate or rare solar radiation.

Media



Animation: HUBER Sludge Turner SOLSTICE® for large quantities of



Animation: HUBER Sludge Turner SOLSTICE®



Video: HUBER Sludge Turner SOLSTICE®

sludge

<https://www.youtube.com/watch?v=T-FUbjSzMZE>



Video: Solar Active Dryer SRT at STP Gunstett

<https://www.youtube.com/watch?v=JqflpsD16VM>

<https://www.youtube.com/watch?v=gOkKQhmA4uM>



Video: Solar Active Dryer SRT at STP Marktberg

<https://www.youtube.com/watch?v=Zajln8OGxpk>

Références

- Plus de 15 000 tonnes de boues d'épuration par an : HUBER installe le séchage solaire des boues d'épuration à la station d'épuration de Pachacútec (Pérou)
- L'augmentation des coûts d'élimination de la boue arrêtée grâce au séchage solaire HUBER
- Des boues fines au granulats sec – tout d'une même origine
- Séchage Solaire : sécurité renforcée sur le pont retourneur des boues HUBER SOLSTICE®
- Recherche et développement dans le domaine du séchage solaire des boues
- Le plus grand site de séchage solaire de boues d'épuration du sud de l'Allemagne entièrement équipé par HUBER
- HUBER Solar Sludge Dryer SRT – unique in variability of sludge feeding and removal
- HUBER Solar Active Dryers offer sustainable technology for maximum drying performance
- Cold weather cannot stop the HUBER Solar Dryer SRT
- Solar dryers are in demand worldwide even for big and medium-sized wastewater treatment plants
- Solar sewage sludge drying – a reasonable solution if based on intelligent and sustainable design

Produits

- HUBER sécheur solaire combiné SRT
- HUBER Presse à Vis Q-PRESS®
- HUBER Vis de convoyage Ro8 / Ro8 T

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