



## HUBER SOLAR ACTIVE DRYERS OFFER SUSTAINABLE TECHNOLOGY WITH MAXIMUM DRYING PERFORMANCE



Previously, solar dryers were especially popular for use on small sewage treatment plants as they can reduce sludge volumes even with small throughputs. Meanwhile, however, also larger plants increasingly use this ecofriendly technology. Here are two installation examples where the HUBER SRT Solar Active Dryer is used successfully:

Start-up of solar sewage sludge dryer at Larnaca on Cyprus; A four-line HUBER SRT Solar Active Dryer has been put into operation on Cyprus, the sunny island in the Mediterranean. On a total gross area of 6,600 m<sup>2</sup>, 12500 t press sludge with 20% DR are dried to a product with a DR in excess of 75%. The installation of the HUBER SRT Solar Dryer is the first step of the complete modernisation of the Larnaca sewage treatment plant. Presently the dryer processes sludge that is produced by old outdated equipment so that the drying treatment process is quite a challenge. But the SRT dryer has no problems neither with the low dewatering results nor with the high organics content and pasty consistency of the sludge to be processed. The high variability of the system allows to significantly reduce the generated sludge volume without problems and produce a stable and easy to store granulate.

Increasing demand for large solar dryers – the method can reasonably be used also for huge sludge

volumes The sludge turners are made of high-quality stainless steel (V4A). The dryer is fed with wheel loaders. The dry granulate is piled up in a huge storage area in the halls for up to half a year. Equipped with high-efficiency ventilators the solar dryer extracts the water from the sludge while consuming only little energy. The system is controlled via a mobile touch screen. The control panels are installed in a separate room.

In the near future, the customer wants to install a HUBER VRM<sup>®</sup> membrane plant and a new dewatering system to achieve about 10% higher drying results. The effluent from the membrane plant will be used to irrigate green areas. In winter, the rainwater is sufficient for the flora so that the treated water can be stored in large lagoons but in summer each and every drop of freshwater is required. The dry granulate can be used as fertilizer.



Hydroflux Epco is a business dedicated to providing world leading wastewater technology and processes to Australian Water Authorities and Councils.

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Solar sewage sludge drying plant Bayreuth uses HUBER SRT system

The second installation example is a sewage treatment plant in Bavaria and one of the largest solar drying plants that exist. The technical equipment on site includes:

- Additional heat from an adjacent biogas plant (up to 1,000 kW heat)
- Two-stage exhaust air treatment
- Fully automated feeding of dewatered sludge
- Fully automated removal of dry granulate
- 5 drying lines, machine size SRT 11, with approximately 7200 m<sup>2</sup> gross area
- Annual throughput: approximately 10,000 t press sludge per year

The contractors KG Nellingen succeeded in convincing the municipality Bayreuth and the engineering office Miller with their public tender offer for the complete sludge treatment line (including sludge dewatering equipment). The quotation was worked out by Huber SE in cooperation with the contractor.

When the submitted bids were evaluated the special benefits the HUBER system offers were of major importance:

- Sludge feed and removal on the same gable end
- Optimal sludge aeration: up to 1,000 m<sup>3</sup> per hour
- Backmixing of partly dried for optimal granulation
- Processing of virtually the complete sludge bed (99% of bed width)

Due to the intelligently selected components we could guarantee competitive consumption values in our quotation and design a reasonable, economical plant concept for the operator. The construction work will be in full swing in summer 2014.

Outlook:

Solar sewage sludge drying has always been a reasonable solution for small wastewater treatment plants. But, under appropriate conditions, this technique can also be a recommendable option for large sewage treatment works. The simple, sustainable technology speaks for itself, and with the HUBER SRT system the customer gets maximum drying performance combined with reliable high-quality service

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