Solar dryer installation in Larnaca

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 6600 m², 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 Presently the dryer processes sludge that is produced by old outdated equipment. Even if this sludge is difficult to dry, it is no problem for the HUBER Solar Active Dryer to cope with the low dewatering results, high organics content and pasty material. The high variability of the system allows to significantly reduce the generated sludge volume and produce a stable and easy to store granulate.

Interior view of the plant

Exterior view of the plant

As STP Larnaca lies on the Mediterranean coast, the dryer had to be manufactured of a material that is suitable for such a climate. The sludge turners are therefore 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. High-efficiency ventilators ensure that the sludge dries with a very low consumption of electrical energy. The system is controlled via a mobile touch screen. The control panels are installed in a separate room.

Exterior view of the plant

In the near future, the customer wants to install a membrane plant and a new dewatering system to achieve

about 10% higher drying results. The clarified effluent from the membrane plant will be used for the irrigation of 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.

André Grosser