Based on the low-temperature belt-dryer developed by Spanish company STC (Sistemas de Transferencias de Calor), SUEZ has designed a comprehensive drying system for processing dewatered sludge.

The Evaporis™ LT low temperature sludge drying system offers:

- **innovation**
  - energy recovery from on-site low-calorie processes provides the dryer’s energy supply

- **key figure**
  - only **90°C** required temperature for the heat source

- **easy integration**
  - modular and scalable design available from 30,000 PE and up

- **environment**
  - primary energy savings and greenhouse gas reduction

Evaporis™ LT is designed to improve safety in dewatered sludge drying while reducing your energy bill.
Evaporis™ LT technology . . .

Taking primary municipal wastewater, physico-chemical, biological or mixed dewatered sludge (with or without tertiary treatment) such as industrial wastewater sludge, the low-temperature Evaporis™ LT dryer works on the principle of continued drying by hot air convection (65 / 80°C) in a closed tunnel.

Automated from A to Z: in order to ensure that air passes through the sludge during drying, a feed module receives and transforms the dewatered sludge into strands (extrusion). These strands move forward on the upper drying belt’s module[s], where the circulation of hot air through the belts allows moisture to be captured and water extracted from the sludge.

This upper drying belt drops the pre-dried sludge onto the lower belt, where drying is completed. The dried sludge leaving the process has a dry content of between 70 to 90%. A lump breaker mill at the end of the process line enables granules to be obtained which are then automatically sent to a storage area.

The air circulating in the dryer comes from heat exchangers, inside of which water circulates at 90°C. In regard to the water contained in the sludge, this is extracted as steam (hot, moist air) and is then condensed in exchangers, inside of which cold water circulates (20 / 40°C).

. . . what it can do for you

- **environment**
  - reduces consumption of primary energy
  - limits greenhouse gas emissions
  - increased control of odor problems thanks to a closed-loop, air circulation system and the operation of a low-temperature dryer

- **savings**
  - decrease in energy consumption thanks to the recovery of low calories present on the site (cogeneration, heating and air conditioning systems, residual energy)
  - all-electric function option (heat pump) to make the most relevant economical choices depending on the country
  - limited upfront investment depending on the client’s needs at a given time T

- **ease of operation**
  - quick start-up and automated process
  - low maintenance
  - easy access to all equipment

- **safety**
  - dryers not concerned by ATEX regulations
  - dust-free
  - low operating temperature of dryer

among our references

<table>
<thead>
<tr>
<th>Saint-Marcellin, France</th>
<th>SUEZ treatment infrastructure</th>
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<td>capacity: 50,000 PE</td>
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Saint-Marcellin, France
capacity: 50,000 PE

Conception & Realisation: O. Barbier (SUEZ) - Photos credits: SUEZ