

SUEZ Water UK

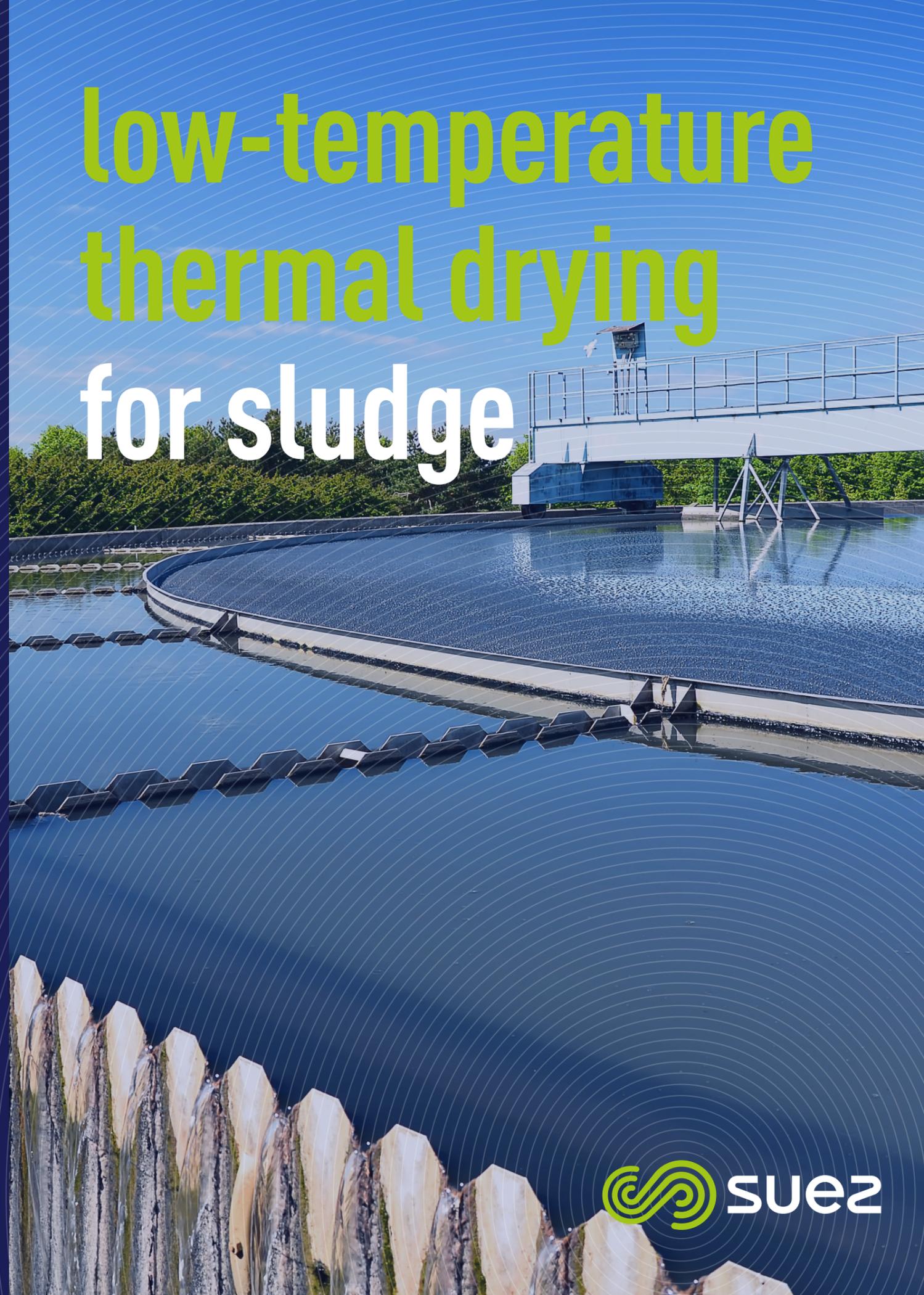
290 Aztec West, BS32 4SY, Bristol

Email: [info.advancedsolutions.uk@suez.com](mailto:info.advancedsolutions.uk@suez.com)

Tel: +44 (0) 1454 804040

[www.suezwater.co.uk](http://www.suezwater.co.uk)

# low-temperature thermal drying for sludge



# Low temperature thermal drying for sludge

Sludge drying is used to transform sludge into useful bi-products or green fuel.

The intrinsically safe Suez low temperature dryer is an automatic and modular system, that is ATEX regulation exempt. The dryer supports water companies to reduce the volume of sludge produced by wastewater treatment plants and allows for the recovery of residual energy. The dried sludge can then be reused as green fuel.

The dryer can be adapted to suit the energy requirements of the end user. Once the drying process is completed, the granulated sludge is a low-density dry product, easy to handle, transport and with excellent properties for further usage such as Green energy production or agriculture.

## How does it work?

### Step 1:

Moist sludge is fed to the head of the dryer. With the help of an extruder, it is placed in the form of strands on the upper belt of a conveyer belt, facilitating the heat exchange with the hot air.

### Step 2:

The belt moves the sludge forward into a closed tunnel where air, heated to 65-80°C, circulates. No handling is required for this process. The pre-dried sludge then drops onto a lower belt, where drying is completed.

### Step 3:

After drying, the finished product obtained is easily transportable, having lost up to 70% of its volume and reaching over 90% dry solids content.

## Benefits...

- ▶ Low temperature process, between 65 – 80°C.
- ▶ Sludge reduction up to 70% in volume reaching up to 90% dry content.
- ▶ Increased waste heat recovery and decreased environmental impact.
- ▶ Safe and efficient technology.
- ▶ Simple to run and maintain.
- ▶ Fully automated, continuous process.
- ▶ Long term commitment.
- ▶ Well established technology.

