

# Heliantis™

SOLAR SLUDGE DRYING



**BIOSOLIDS**

REDUCE THE QUANTITY OF DEWATERED  
SLUDGE USING SOLAR RADIATION.

**+** **COST EFFECTIVE**  
Reduction in transport,  
storage and spreading costs

**+** **ENVIRONMENTALLY FRIENDLY**  
Low energy consumption and  
multiple options for reuse

**INFILCO**

**suez**  
environnement

  
Degrémont

# SOLAR SLUDGE DRYING FOR SMALL TO MEDIUM-SIZED TREATMENT PLANTS

Heliantis™

BIOSOLIDS

Heliantis™ processes dewatered sludge into a dry and granulated product for agricultural reuse or thermal energy production.

## KEY FIGURE:

Capable of yielding up to

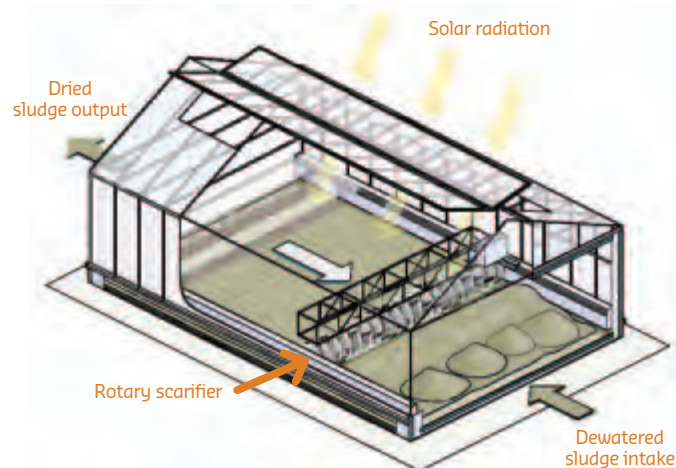
**85%**

dry solids content.

## Heliantis™ TECHNOLOGY...

Heliantis™ transforms any type of dewatered sludge (minimum dry content: 15%) into a dry, granulated product with a dry-solids content that can be adjusted within a range of 35% to 85%. Using the sun as the main energy source, the sludge is dried in a greenhouse and a scarifying machine turns over and breaks up the sludge into carbon-neutral and odorless granules, for eventual agricultural reuse or thermal energy production using co-incineration.

- Dewatered sludge is brought directly to the greenhouse as it is produced;
- The rotary scarifier repeatedly turns the sludge, breaking it into granules and gradually moving it forward to the exit;
- As the sludge bed is heated by the sun, the water it contains evaporates;
- The moist air is evacuated to maintain optimum moisture levels in the greenhouse.



## Heliantis™ ADVANTAGES...

- + **SCARIFICATION OF THE SLUDGE:**
  - Increases the exchange surface
- + **TURNING OF THE SLUDGE:**
  - Enhances renewal of the exchange surface
- + **SLUDGE AERATION:**
  - Maintains aerobic conditions to avoid decomposition
- + **SLUDGE CONVEYANCE ALONG GREENHOUSE:**
  - Results in hands-free operation
- + **OVER 100 REFERENCES WORLDWIDE**



Photos credits: Degremont, A. Da Silva/Graphix

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