Heliantis™
SOLAR SLUDGE DRYING

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
SOLAR SLUDGE DRYING FOR SMALL TO MEDIUM-SIZED TREATMENT PLANTS

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

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