

CASE STUDY

CHONGQING - CHINA



# INNOPLANA

Innovative Sludge Drying system

# INNOPLANA

START UP YEAR  
**2009**

**3 LINES IN PARALLEL**

**5'930 kg<sub>H<sub>2</sub>O</sub>/h**

## A low energy consumption and flexible solution

### CHONGQING

Chongqing, the largest and most populous municipality in China, is situated along China's longest river – the Yangtze. Securing safe drinking water for the citizens of the municipality and disposing of the wastewater is a big challenge when the population is in the tens of millions.

Due to major problems to stock the large amount of sludge produced by the Tangjiatuo WWTP, it has been decided in 2007 to equip this plant with INNODRY® 2E dryers in order to reduce the sludge volume and achieve a final dried solids content of 90%DS. After treatment, dried sludge can be used as an alternative fuel, instead of coal.

### WHY INNOPLANA?

The INNODRY® 2E has been selected based on its unequalled combination of low energy consumption, safe operation and flexibility, Three lines has been installed, each offering a water evaporation capacity of 1'977 kg H<sub>2</sub>O/h. The INNODRY® 2E units can be operated either individually or together.

### CONSTANT IMPROVMENT

This project was one the first of its kind in China using sludge drying system for a municipal application. And after a complete testing program done by the Chongqing end-user on the drying plant, it has been shown that the current performances of the INNODRY® 2E dryers are much greater compare to the initial expected data. And in parallel INNOPLANA has also further improved the heat recovery system and has organized several tests in China in order to guarantee today even lower specific thermal energy consumption in China (~700 kWh/tH<sub>2</sub>O).



TREATMENT STAGE	DIGESTION (PRIMARY & SECONDARY MIX)	DEWATERING	DRYING
SLUDGE DRYNESS*	6% DS	25% DS	90% DS
SLUDGE VOLUME*	1'000 T/day	240 T/day	67 T/day

(\* at the outlet)

## INNOPLANA

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