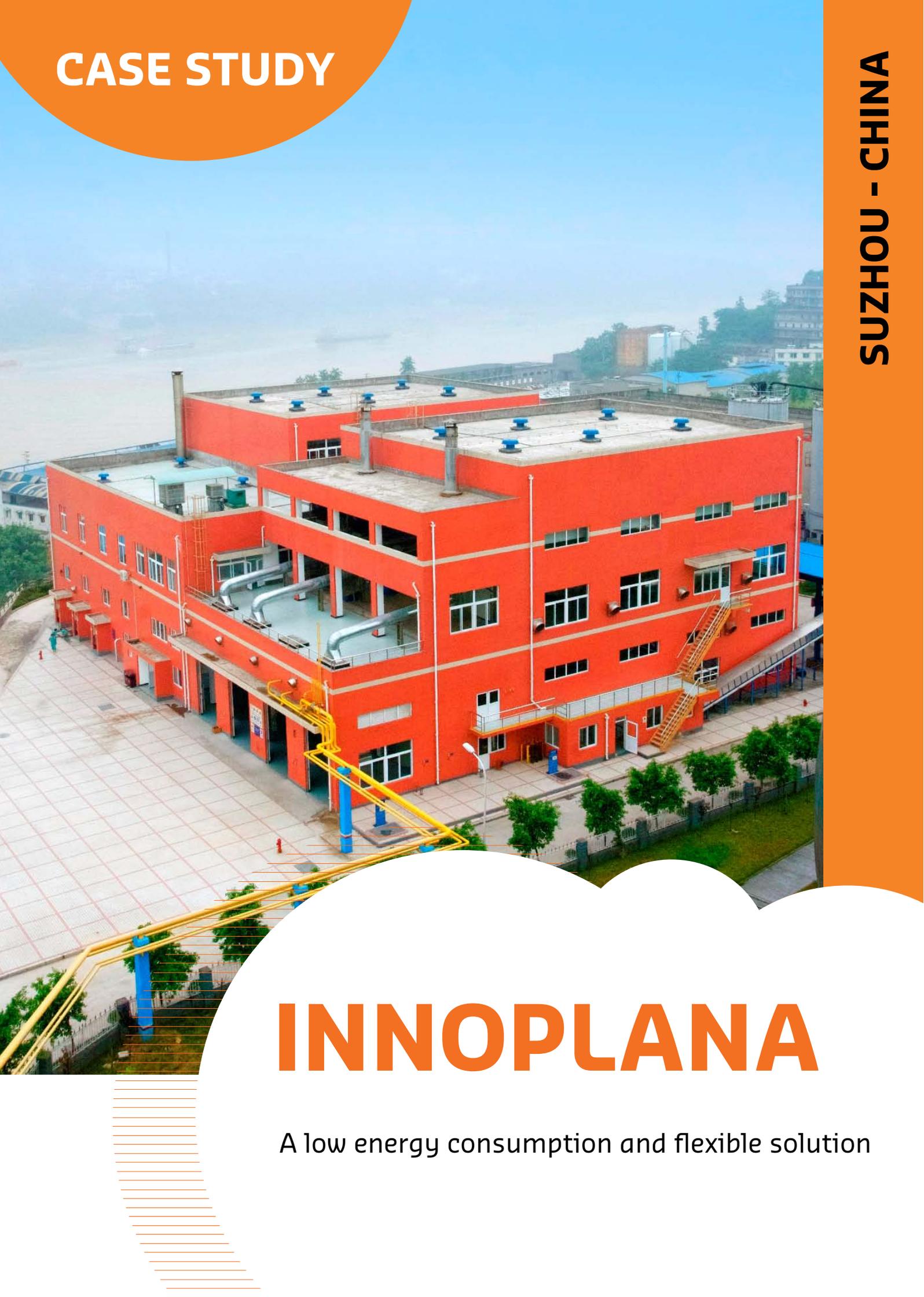


**CASE STUDY**

**SUZHOU - CHINA**



# **INNOPLANA**

A low energy consumption and flexible solution

**3 LINES IN PARALLEL**

**11'355 KG<sub>H<sub>2</sub>O</sub>/H**

**TOTAL EVAPORATION CAPACITY**

## A SUCCESSFUL CIRCULAR ECONOMY

### SUZHOU

The China-Singapore Suzhou Industrial Park ("SIP") is regarded as one of the most sophisticated and competitive industrial Parks in China. Demonstrating its commitment to environmental protection and circular economy concept, "SIP" decided to launch in 2009 a unique project, to provide to its customers a sludge drying solution and reduce the carbon footprint of the Park.

Indeed the drying plant is collecting sludge from different WWTP located in the Park and recycle it as combustible material for the Park's Power Plant. That way coal consumption is reduced. Strategically positioned between the WWTP and the Power Plant, the drying system can reuse waste heat from the Power Plant reducing even more the carbon footprint of the Park.

### WHY INNOPLANA

The INNODRY® 2E has been selected thanks to its unequalled combination of low energy consumption, safe operation and flexibility. Three lines has been installed, EACH offering a water evaporation capacity of 3'785 kg<sub>H<sub>2</sub>O</sub>/h. The INNODRY® 2E units can be operated either individually or together.

### SLUDGE TO ENERGY!

This project was the first of its kind in China using dried sludge as a combustible for a coal fired Power Plant. Up to 78 tones of dried sludge produced per day are indeed mixed with coal in order to feed the Power Plant furnace. This sludge, dried at 90%<sub>DS</sub>, represents a large amount of energy.

Knowing that the heating value of the sludge is approximately equivalent to 1/2 of that of coal, per day, the Power Plant gets the equivalent of 40 tones of coal from a sustainable and renewable energy source which improves the CO<sub>2</sub> Park balance.



TREATMENT STAGE	DIGESTION (PRIMARY & SECONDARY MIX)	DEWATERING	DRYING
SLUDGE DRYNESS	6% <sub>DS</sub>	20% <sub>DS</sub>	90% <sub>DS</sub>
SLUDGE VOLUME	1'170 T/day	350 T/day	78 T/day

## INNOPLANA

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