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## **CTProfiler 2.0**

boost efficiency  
of cooling tower



# CTProfiler 2.0

## service overview

CTProfiler 2.0 is designed to evaluate all sizes of natural-draft cooling towers in order to improve and maintain their highest efficiency. Usage of autonomous self-driven mobile units enables high precision thermal condition mapping of cooling towers including their main components, i.e. fills, water nozzles, drift eliminators and water distribution system. CTProfiler 2.0 is compliant with thermal test code CTI ATC-105.



### SPEED

Measurement last  
up to 8 hours



### FULL COVERAGE

autonomous self-driven  
mobile units



### GUARANTEED PROFIT

up to 3% of the overall  
unit efficiency



### RELIABILITY

multiple cooling  
towers evaluated

## SERVICE VALUE

Following CT Profiler recommendations, you get:

### 1%

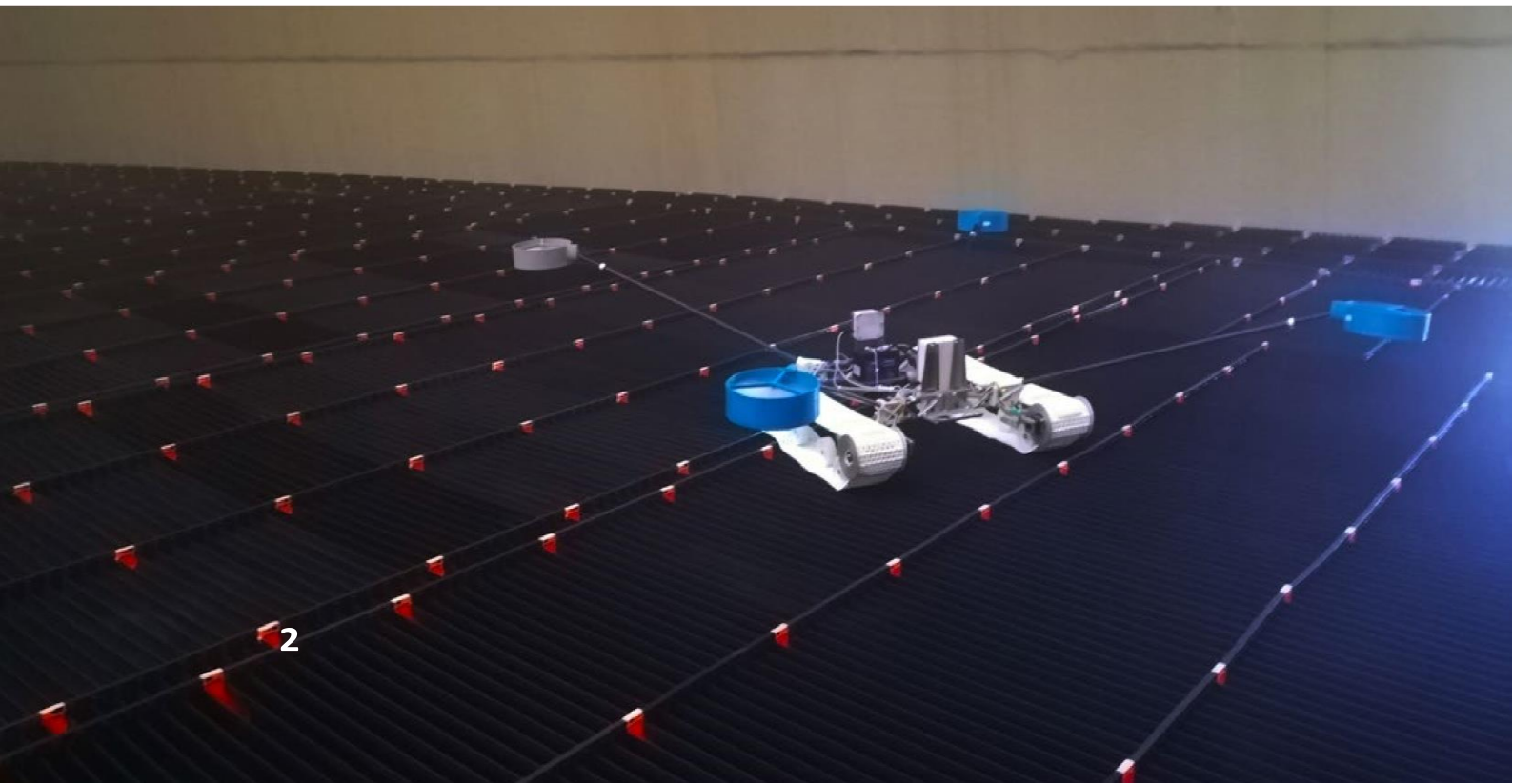
Up to 1% overall unit  
Efficiency boost with a  
Minor CT upgrade

### 3%

up to 3% overall unit  
efficiency boost with a  
general CT renovation

### 2,3M€

savings per year  
up to 1,5M€ on fuel and  
0,8M€ on CO<sub>2</sub> coupons



## SERVICE STRUCTURE

### Step 1 ▶ High-resolution cooling tower profiling

**TASK:**  
Mapping of local characteristics inside the natural-draft cooling tower by autonomous self-driven robots.

**YOU GET:**  
In-depth knowledge about condition of cooling tower's main components.

### Step 2 ▶ Thermal performance analysis

**TASK:**  
Evaluation of the present working condition of the cooling tower with respect to its design parameters

**YOU GET:**  
List of anomalies, damages and degradation with repair suggestions

### Step 3 ▶ Cost-benefit analysis

**TASK:**  
Estimation of power plant efficiency boost taking into account the costs of repair

**YOU GET:**  
Investment vs. cost financial analysis considering long-term plant's operation

## SELF-DRIVEN MOBILE UNIT

### Technical Specification

driving mechanisms	250 mm caterpillar tracks designed for drift eliminators
Communication	Remote control (self-driven)
Sensors	<ul style="list-style-type: none"><li>• 4x air velocity</li><li>• 4x temperature</li><li>• 4x humidity</li><li>• 1x surveillance camera</li></ul>
acquisition speed	~100 m <sup>2</sup> /h
Casing	IP65
Power supply	Li-ion Polymer Battery

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