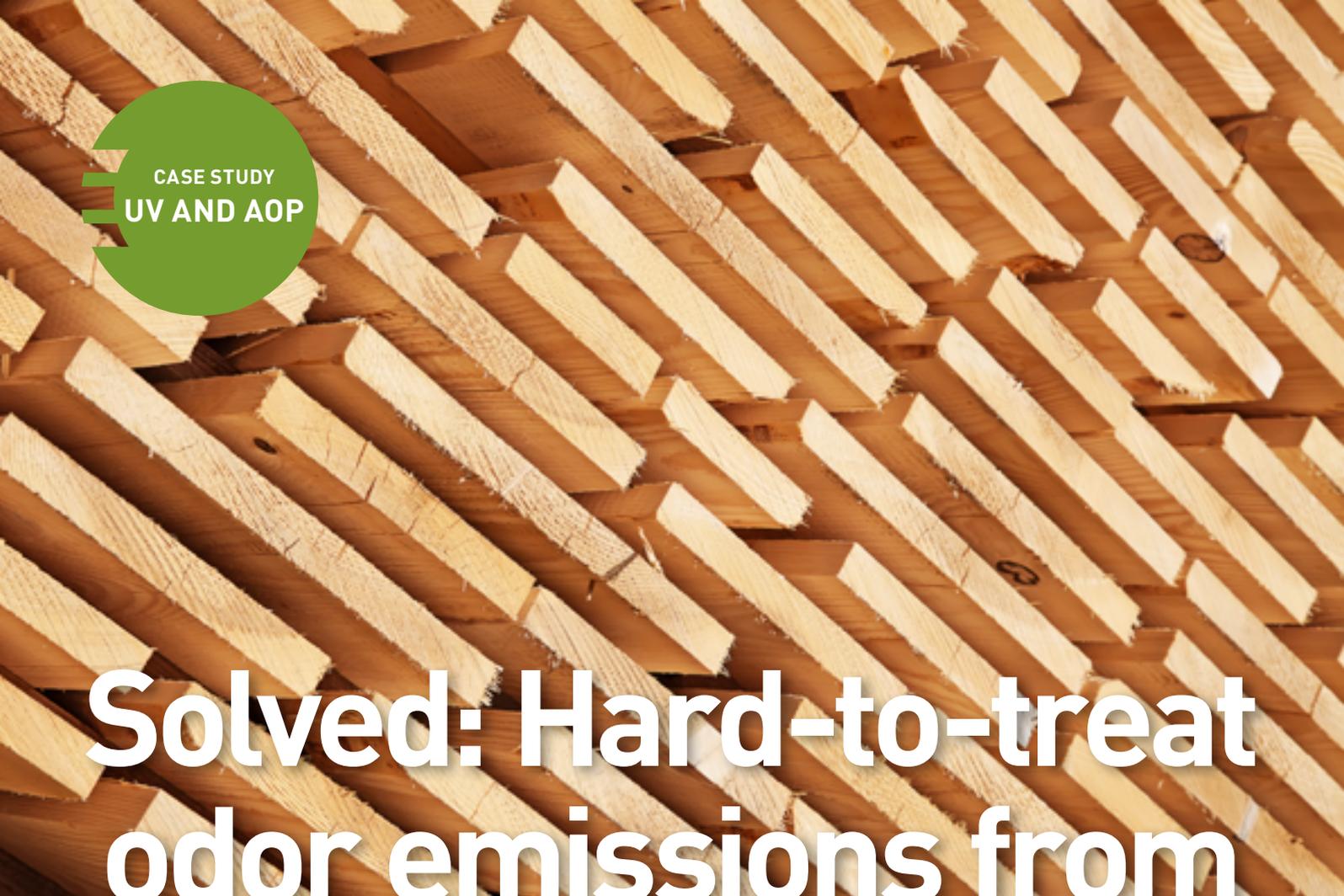


CASE STUDY  
UV AND AOP



# Solved: Hard-to-treat odor emissions from innovative wood processing company

UP TO 3400 PPM OF COMPOUNDS INCLUDING PINENES,  
LIMONENE, HEXANOIC AND HEPTANOIC ACIDS

 **ozonetech.**

## WOOD PRODUCTS MANUFACTURER, THE NETHERLANDS

A company in the Netherlands invented a new process to treat wood to achieve particular properties. Unfortunately, the treatment results in high pollutant emissions, causing odor problems with the neighbors. These filed complaints to the local authorities which forced the company to install a treatment. They tried different technologies, like activated carbons or alumina beads impregnated with potassium permanganate, but none worked.



### THE PROBLEM

The problem is the extreme concentration of pollutants (3400 ppm). These are also difficult compounds to remove, as they are mostly composed by pinenes, limonene, hexanoic and heptanoic acids. In addition, the local authorities require an odor removal of 90%.

### THE SOLUTION

We choose the RENA Pro B3 ozone system in combination with the Nodora AOP UV reactor. The combination of ozone and UV is known as “advanced oxidation” due to the synergy between these two components, increasing the efficacy of the treatment. Since this case was very difficult to solve, we designed a custom-made reactor based on their needs. We incorporated the most powerful UV lamps for air treatment available on the market, to maximize the effect.

### EVALUATION

The customer is very satisfied by the results. Almost no odor is emitted from the process, and the management is confident to continually reach the 90% odor reduction.



*"We needed a high level of odor reduction and the Nodora AOP provided it."*

Owner of the wood products manufacturer

### PLANT FACTS

Industry:	Wood processing
Purpose:	Odor removal
System solution:	RENA Pro B3 and Nodora UV-C Air X AOP reactor
Dim. RENA Pro (WxDxH):	800x600x1800 mm
Dim. Nodora (WxDxH):	1160x760x2070 mm
Input power RENA Pro:	1.2 kW
Noise level RENA Pro:	55 dB

### ABOUT OZONETECH

Ozonetech is an award-winning cleantech company that has offered premium products for air and water treatment since 1993.

Our unique technology and extensive expertise has made us a rapidly growing global company with installations on six continents. All development and manufacturing is located in Sweden. In addition, we have in-house specialists for consultation, planning, installation and service.

As a Center of Excellence within air and water treatment, we also collaborate in international efforts to develop global standards for purification solutions.

At Ozonetech, we have a strong incentive to reduce energy consumption, health risks and the impact on the environment. Our current solutions provide a multitude of benefits in the processing and food industry, real estate, commercial kitchens as well as in the retail market.

For additional information, visit our website at [www.ozonetech.com](http://www.ozonetech.com)

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