

**PIENAAR ENERGY (PTY) LTD**

# **Oslo Wastewater Treatment Plant Uses Folding Container for Two-Way Charging**



## Overview

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In May 2017, PNC Norge was awarded the contract to expand the sewage treatment plant in the Norwegian capital of Oslo. The plant's increased capacity will allow it to treat the wastewater produced by 500,000 residents, instead of the current 270,000. Plant extension The plant was built because of contamination in the fjord and in the harbour area in particular. The Main Sewerage System of the inner Oslo fjord Bekkelaget WWTP Norway's second largest WWTP, Treats wastewater from Oslo's eastern parts, approx. Currently Bekkelaget WWTP. Port of Oslo, together with the Water and Sewerage Authority, has established a simple connection for discharging greywater and sewage to the city's treatment plant. Samples are taken annually and analyzed for heavy metals. The project, to be completed by the end of 2020. COWI has won the contract for the treatment plant in the following disciplines: process, building and construction engineering; mechanical engineering; HVAC; fire safety; HSE; environment; sustainability; geotechnical engineering; electrical and automation; water and sewage; landscape architecture;. Veas is Norway's largest wastewater treatment plant and treats sewage water originating from Oslo, and nearby municipalities, corresponding to 867,000 person equivalents.

## Oslo Wastewater Treatment Plant Uses Folding Container for Two-W

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### New Fuglevik Wastewater Treatment Plant in Norway

A life cycle analysis was carried out to assess 15 different technologies for treatment methods for a plant serving 85,000 inhabitants. The analysis provided deep insights into the methods that had the lowest ...

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### Veolia's advanced technologies driving major wastewater treatment

Veolia, the world leader in water technologies, has been awarded a EUR28.5 million contract to expand and upgrade the Fuglevik wastewater treatment plant in Norway, a transformative project ...



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### Case: Centralised Wastewater Treatment Plant "Bekkelaget"

Bekkelaget is a tertiary treatment plant with both phosphorus and nitrogen removal. High quality treatment is needed because the receiving water body, the inner Oslo-fjord basin, has limited water ...

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## Waste and sewage

Port of Oslo, together with the Water and Sewerage Authority, has established a simple connection for discharging greywater and sewage to the city's treatment plant.



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## Veas in brief

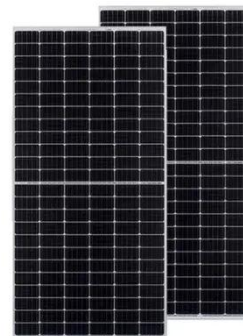
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## Waste and sewage

Waste from Ships  
Waste Along The Harbor Promenade  
Maritime Sewage and Wastewater  
Waste Management in The Port of Oslo  
Reuse of Materials  
During the summer months, Port of Oslo empties the garbage bins along the harbor promenade more often. Despite this extra effort, garbage litters the waterways. The Urban Environment Agency reports similar challenges at swimming sites throughout the municipality. In 2020, Port of Oslo launched a fully electric environmental boat, Pelikan 2, special See more on [oslohavn.no](https://oslohavn.no)  
Images of Oslo Wastewater Treatment Plant Uses Folding container



for Two-Way Charging Containerized  
Wastewater Treatment  
Plant Containerised Sewage Treatment  
Plant Modular Wastewater Treatment  
Systems Containerised Water Treatment  
Plant Waste To Energy Container Modular  
Wastewater Treatment Plant Modular  
Water Treatment System Containerized  
Water Treatment Systems Containerized  
Sewage Treatment Plant containerized  
wastewater treatment systems - PPU  
Umwelttechnik GmbH Wastewater  
Treatment Mobile water treatment in  
container Mobile wastewater treatment  
plants by MANN+HUMMEL Nye  
containere til farlig avfall i Oslo ,  
Euroteknikk Containerized Mobile  
Wastewater Treatment System Oslo Has  
The Clue - The Beauty in the Beast #5 -  
ESWET - European Plug & Play Water  
Treatment Units , HWTR Recycling System  
for Container River Sewage and  
Industrial Wastewater Waste Recycling -  
What makes Oslo a sustainable city? See  
all [pnc-norge.no](http://pnc-norge.no)

## **UBRA Bekkelaget Oslo - [pnc-norge.no](http://pnc-norge.no)**

In May 2017, PNC Norge was awarded  
the contract to expand the sewage ...

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### **Wastewater treatment from problem to opportunity Case ...**

Currently Bekkelaget WWTP serves 290  
000 p.e. (population equivalent) which is  
approximately 40% of all wastewater  
generated in Oslo. The plant with  
nitrogen removal process was placed

inside rock ...

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## Bekkelaget treatment plant

Bekkelaget sewerage treatment plant treats 40% of waste water from the City of Oslo, but it is overloaded and cannot fulfil new environmental requirements. When the treatment plant was built in ...

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## UBRA Bekkelaget Oslo

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## Wasterwater treatment, Norway

The Alvim treatment works in Sarpsborg, 88km south of Oslo, was built in the 1980s and processes sewage and

wastewater from Sarpsborg municipality  
and that of nearby Årum in Fredrikstad.

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