

FROM SEWAGE TREATMENT PLANT TO BIOREFINERY

VEAS IN BRIEF

VEAS (Vestfjorden Wastewater Company) is Norway's largest wastewater treatment plant and is owned by the municipalities of Oslo, Bærum and Asker. Wastewater from the owner municipalities, equivalent to 750,000 persons, is transported via the VEAS tunnel to the treatment plant at Bjerkås in Asker. VEAS also cleans wastewater from Røyken and Nesodden municipalities.

The plant is located in the mountain and operates around the clock, all year round. In addition to effective water treatment, VEAS contributes to nutrients being brought back into circulation through the production of stabilized, sanitised and sewage sludge (VEAS soil) with added calcium and a nitrogen solution used in agriculture. Raw gas formed from the sewage sludge is used today to produce electricity and heat used in the plant, but in June 2020 the new manufacturing plant for liquefied biogas is starting up.

At full operation, VEAS will be able to produce biogas equivalent to approximately sixmillion litres of diesel, while reducing climate emissions by more than 15,000 tonnes of CO_2 equivalents per year.





VEAS WATER TREATMENT PROCESS





KEY FIGURES 2019



PURIFICATION REQUIREMENTS AND RESULTS 2019

Parameter	Requirement		Result	
	Wastewater Treatment Regulations excluding overflow	Discharge permit including overflow	Excluding overflow	Including overflow
	%	%	%	%
NITROGEN	70	70	68.8	68.6
PHOSPHORUS	90	90	90.6	90.3
COD*	75		83.9	83.6
BOC ₅ *	70		89.4	89

* Organic substance measured as: COD = Chemical Oxygen Demand and BOC5 = Biological Oxygen Consumption over 5 days.

DEVELOPMENT IN AMOUNTS ADDED AND PRECIPITATION 2009–2019





95 EMPLOYEES

66 MEN AND 29 WOMEN



NUMBER OF APPRENTICES **ACCORDING TO SPECIALTY:**



AREA OF COMPETENCE, **EMPLOYEES:**



43.4 YEARS



AVERAGE AGE OF EMPLOYEES

SICK LEAVE

1.2% 2.9%

SELF-

DECLARED

WITH MEDICAL CERTIFICATE





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