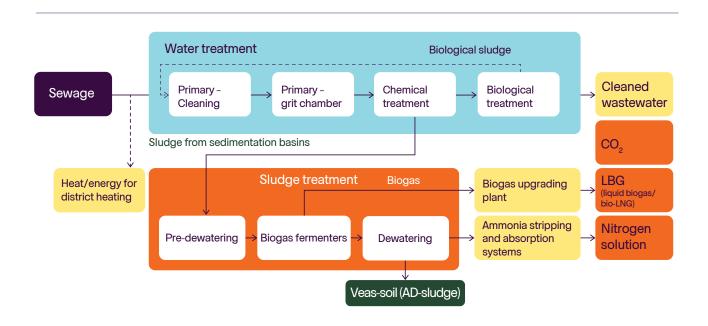




Veas in brief

Veas is Norway's largest wastewater treatment plant and treats sewage water originating from Oslo, and nearby municipals, corresponding to 867,000 person equivalents. Annually the plant produces approximately 100 million m³ of treated sewage water, 40,000 tonnes of stabilized and sanitized bio-fertilizer, 60 GWh of biogas and 4,000 tonnes of a nitrogen solution. Veas is owned by the municipalities of Oslo, Bærum and Asker.

Produced biogas is refined and liquefied to bio-fuel (bio-LNG) at the new refining plant, in operation from the summer of 2020. This plant will, at full operation, produce bio-fuel equivalent to approximately 6 million liters of diesel which upon replacing fossil fuels will reduce greenhouse gas emissions by more than 15,000 tonnes of CO₂ equivalents per year.



Purification requirements and results 2021

		Requirement	Result	
Parameter	Wastewater Treatment Regulations excluding overflow	Discharge permit including overflow	Excluding overflow	Including overflow
	%	%	%	%
NITROGEN	70	70	72,7	72,6
PHOSPHORUS	90	90	93,4	93,2
COD*	75		86,5	86,2
BOC ₅ *	70		92,0	91,4

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

Key figures 2021



Finances

40.4

Revenue from sales of products and services (NOK million)

223

Transfer from the owners to operations (NOK million)

94.1

Transfer from the owners to financing (NOK million)

271.2

Operating costs excluding depreciation (NOK million)

4

Result (NOK million)

182

Investment for the year (NOK million)



Production

87.4

Purified wastewater, mill. m³

41,400

Veas soil, tonnes

4.543

Nitrogen solution, tonnes

10.9

(amount, mill. Nm3) Biogas

57.8

(energy content, GWh) Biogas

111

Delivered to district heating, GWh

49.9

Produced bio-LNG, GWh



Resource consumption

43.6

Electrical power, GWh

266,055

Renewable fuel oil, litres

3,543

Wood pellets, tonnes

17.954

Drinking water, litres

21.757

Chemicals, tonnes

-11.5

Net energy balance, GWh



Residual products

819

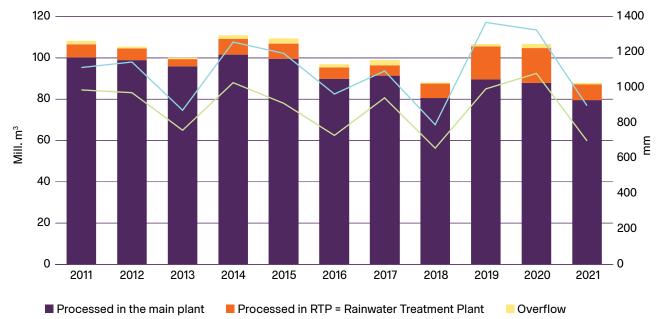
Trash from screens, tonnes

256

Sand, tonnes

Veas'
services cost
you nok 1 NOK
per day.

Development in amounts added and precipitation

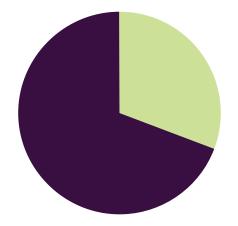


- Precipitation at Sem measuring station (mm)
- Precipitation at Blindern measuring station (mm)

Our people



ဂိုလို



67 %

68 men

33 %

34 women

Sick leave rate

1.4 %

Selfdeclared

3.5 %

With medical certificate

43

Average age of employees

Veas and HSE

In 2021, H1 and H2 values were 6. The goal is an H1 value below 10 (work-related injuries without absence and work-related injuries with absence).

Year	H1 and H2 values		
2018		13.7	
2019		0	
2020		6.1	
2021		6	

H1 - work-related injuries with absence per million hours worked

H2 – work-related injuries with absence and work-related injuries without absence per million hours worked

Area of competence, Employees



Management













