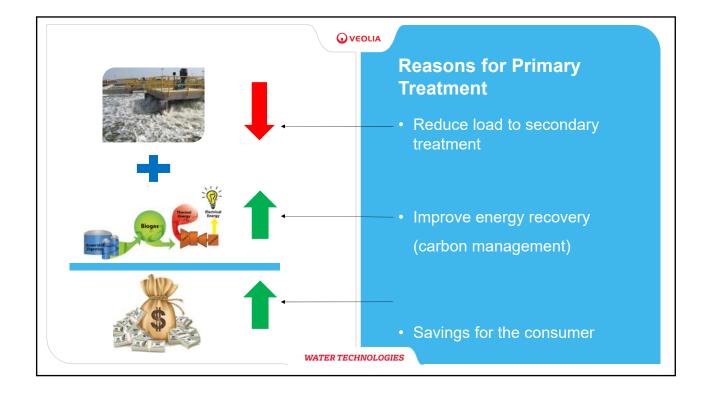
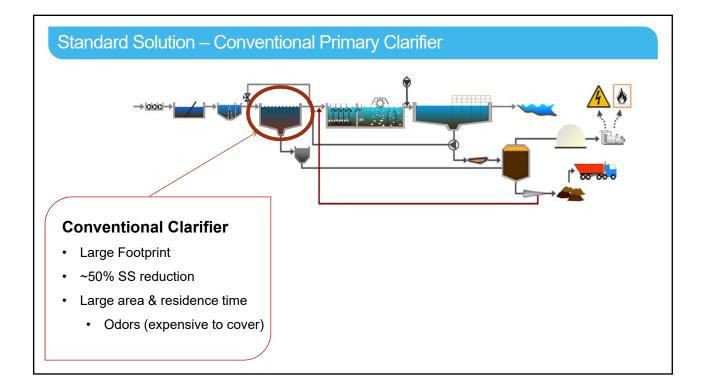
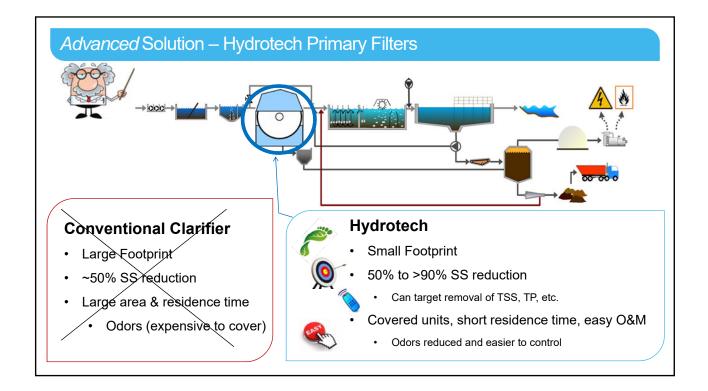
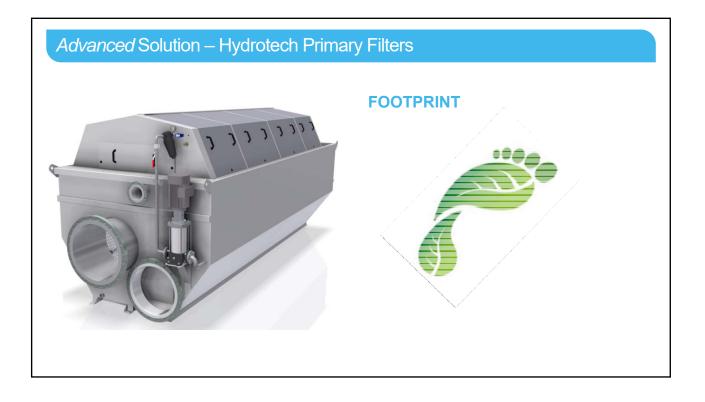


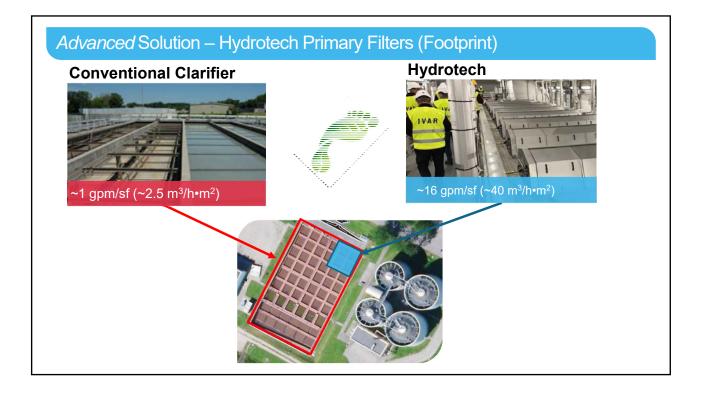
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Audio Mode: OUse Telephone	Listen using Mic &     Speakers
MUTED	<ul> <li>Or, select "Use Telephone" and dial the conference (please remember long distance phone charges apply).</li> </ul>
V [Enter a question for staff]	• Submit your questions using the Questions pane.
Webinar Now Webinar D: 429-384-699	<ul> <li>A recording will be available for replay shortly after this webcast.</li> </ul>

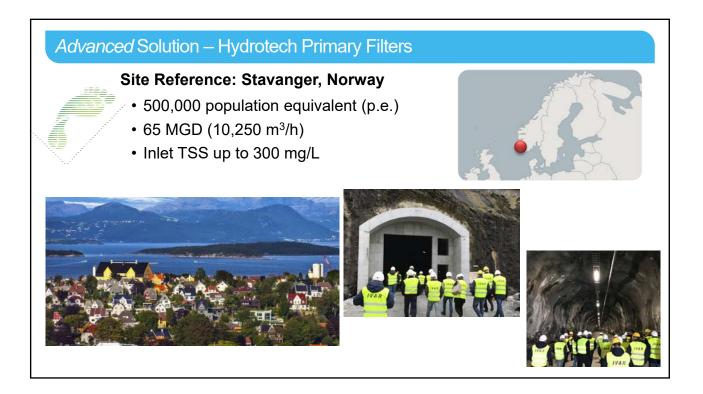




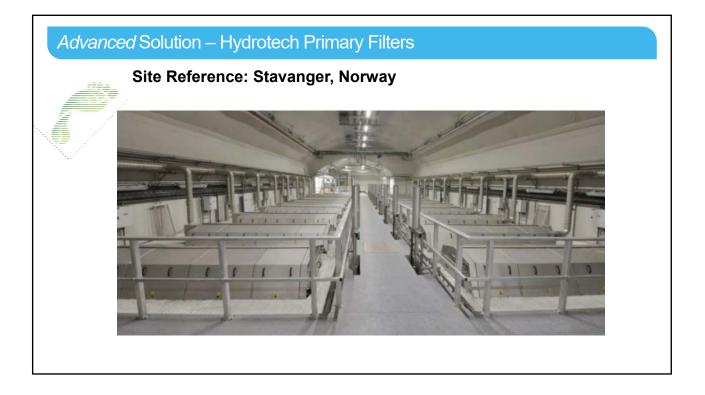




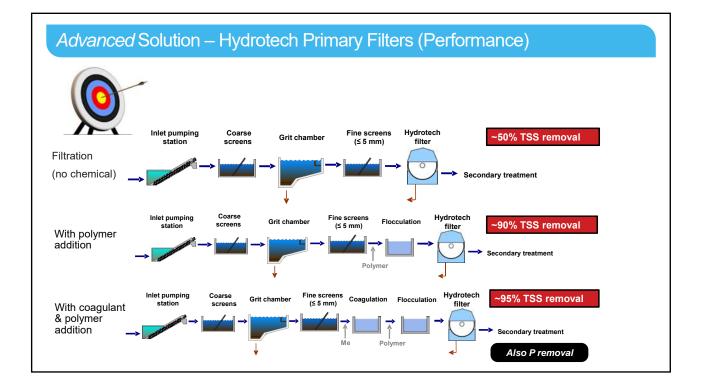












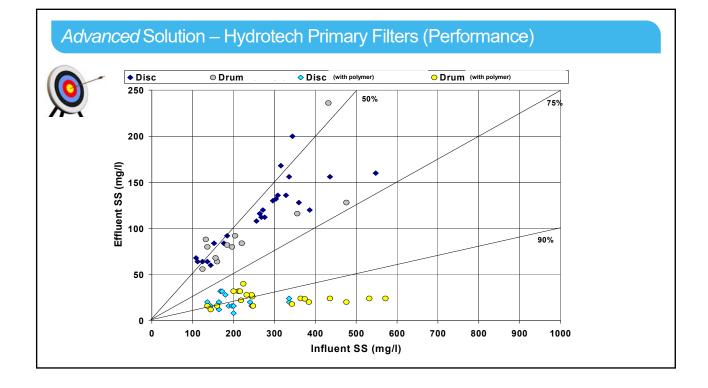


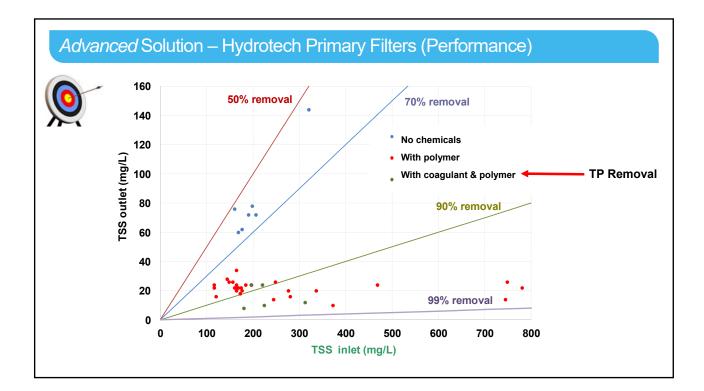


Reference Data: Malmö, Sweden

- Sjölunda WWTP
- Discfilter & Drumfilter
- With and Without chemical addition
- Inlet TSS up to 800 mg/L







	TV	Performanc	e validated by inspective Without cher	ction body ISO 17020 certifi nicals	ied. Claims registe		gistry of technologies With polymer add	· · ·
Γ	Parameter	After or before Hydrotech drumfilter	Mean Value	Number of measures	Parameters	After or before Hydrotech drumfilter	Mean Value	Number of measures
			PERFORMANCE PARAMETER				PERFORMANCE PARAMETER	
_	Total suspended solids reduction	After	51% (from 11% to 70%)	21	Total suspended solids reduction	After	76% , standard deviation = 8%	21
			OPERATIONAL PARAMETERS				OPERATIONAL PARAMETERS	
	Quantity of flocculant	Before Before	No use of chemicals Between 6 m3/hour and 29.9 m3/hour	/ Online measurement logged with an interval of 10 seconds during 48 days. Period of time with a technical issue due to pilot line scale were excluded from the	Quantity of flocculant	Before	2.4 mg polymer/L wastewater	Online measurement logged with an interva seconds during 43 days. Period of time with a technical issue (por failure, frozen pipe, no polymer dosing) w excluded from the mean.
ages -	Water temperature	/	16°C	mean. Online measurement logged with an interval of 10 seconds during 48 days. Period of time with a technical issue due to pilot line scale were excluded from the	Inlet flow	Before	29.9 m <sup>1</sup> /hour standard deviation = 1.1%	Online measurement logged with an interval seconds during 43 days. Period of time with a technical issue (por failure, frozen pipe, no polymer dosing) w excluded from the mean.
	Measure of pH	Before After	7.4	21 21	Water temperature	/ Before	14.4°C	Online measurement logged with an interva seconds during 43 days.
×		Before	358.9	21				Period of time with a technical issue (por
	alkalinity		344.5					failure, frozen pipe, no polymer dosing) w
	Concentration of BOD	Before After	235	6				excluded from the mean. 20
			(Min = 200, Max = 290)	0	Measure of pH	After	7.4	20
			146.7	6		Before	332	20
			(Min = 110, Max = 170)		Concentration of alkalinity	After	292	21
	Concentration of total phosphorus	Before	6.6 (Min = 5.4, Max = 8)	6	Concentration of BOD	Before	248 . Min = 170, Max = 290	6
			(Min = 5.4, Max = 8) 5.8	+		After	141 , Min = 68, Max = 260	6
		After	fter (Min = 4.6, Max = 7) 6					
	Concentration of TOC	Before	135	6	Concentration of total	Before	7.4 , Min = 5.9, Max = 11	6
		beiore	(Min = 110, Max = 150)		phosphorus	After	5.1 , Min = 4.1, Max = 7	6
		After	130	6	Concentration of TOC	Before	155 , Min = 110, Max = 200	6
			(Min = 100, Max = 200) ENVIRONMENTAL PARAMETERS			After	93.2 , Min = 67, Max = 120	6
H			ENVIRONMENTAL PARAMETERS	Online measurement logged with an			ENVIRONMENTAL PARAMETERS	
	Energy consumption of the drumfilter	7	14.1 Wh/m3 118.5 Wh/kg TSS removed	interval of 10 seconds during 48 days. Period of time with a technical issue due to pilot line scale were excluded from the mean.	Energy consumption of the drumfilter (including drumfilter and chemical equipment)	. /	130Wh/kg TSS removed	Online measurement logged with an interva seconds during 43 days. Period of time a technical issue due to pilo scale were excluded from the mean.
	Percentage of operation ime the filter has been in backwash mode	1	14%	Online measurement logged with an interval of 10 seconds during 48 days. Period of time with a technical issue due to pilot line scale were excluded from the	Percentage of operation time the filter has been in backwash mode	: <i>1</i> ,	42%	Online measurement logged with an interva seconds during 43 days. Period of time with a technical issue a tech issue due to pilot line scale were excluded

## *Advanced* Solution – Hydrotech Primary Filters (Performance)

- Reference Site: Lyngby-Taarbæk, Denmark
- Mölleåverket WWTP
  - Evaluated renovating existing 4 clarifiers vs Hydrotech filters
- Selected Hydrotech: better efficiency expected in smaller footprint



