

# PROPOSAL ON THE UPDATE OF HELCOM NUTRIENT CEILINGS PART 2 PRESSURE 12-2020



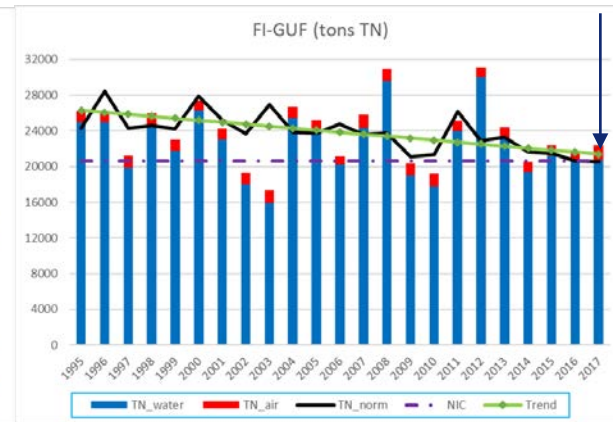
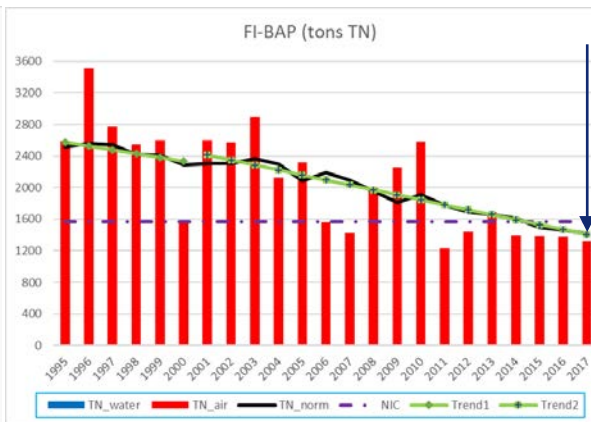
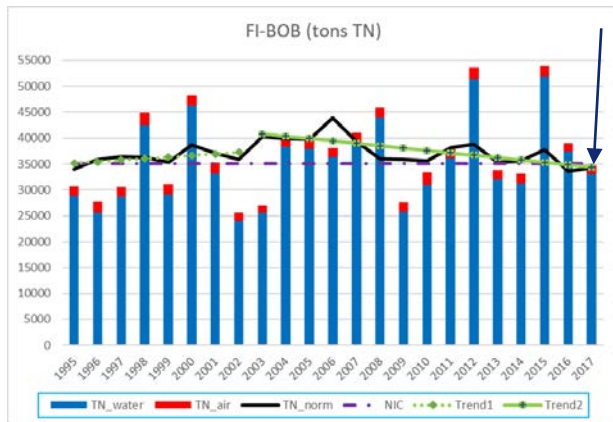
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APRIL 2020

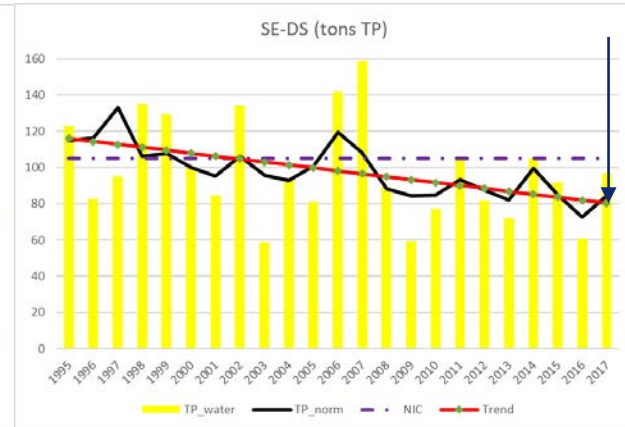
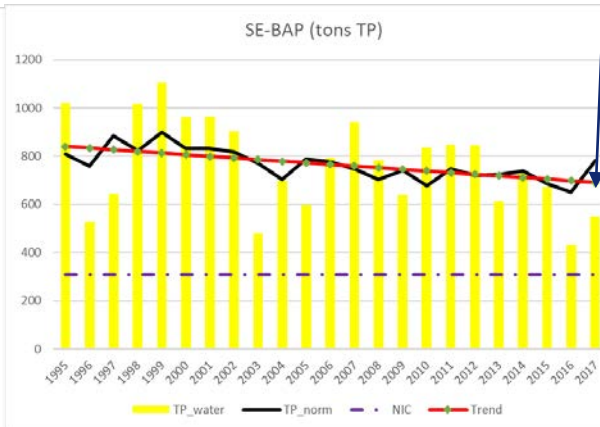
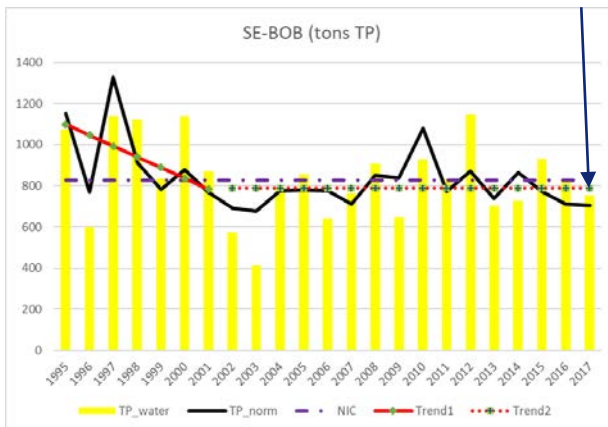
# PROGRESS TOWARDS NIC FROM MD-2013 BY 2017



Finland TN	BOB	BOS	BAP	GUF	GUR	DS	KAT
<b>A : Input ceiling (NIC)</b>	35081	29619	1569	20653	255	64	77
<b>B: Estimated input 2017</b>	34393	24446	1406	21396	180	43	56
<b>C: Inputs 2017 including uncertainty (test value)</b>	35500	26485	1442	22198	185	45	57
<b>Extra reduction by 2017 (A-C)</b>		3135	127		70	19	20
<b>Remaining reduction to fulfill NIC by 2017</b>	419			1544			
<i>Remaining in % of ceiling</i>	1,2			7,5			
<b>Significant changes since reference period (%) to 2017</b>	-7.4	-16	-41	-15	-39	-43	-42



# PROGRESS TOWARDS NIC FROM MD-2013 BY 2017



Sweden TP	BOB	BOS	BAP	GUF	GUR	DS	KAT
A : Input ceiling (NIC)	826	1125	308			105	740
B: Estimated input 2017	789	760	691			80	735
C: Inputs 2017 including uncertainty (test value)	870	822	715			85	772
Extra reduction by 2017 (A-C)	5.3	303				20	
Remaining reduction to fulfill NIC by 2017	44		407				32
Remaining in % of ceiling			132				
Significant changes since reference period (%) to 2017	-	-35	-17			-24	-



# REALLOCATION OF EXTRA REDUCTION

- MD-2013 give Contracting Parties the possibility to reallocate extra reduction in one basin to the neighbouring basin based on 8 principles (included in doc. 3-7, page 5)
- The principle is that extra reduction in some basins is equivalent to make a reduction in a neighbouring basin by a factor – see table for TP: e.g. 3.18 tons extra TN reduction in Danish Straits is equivalent reducing TP inputs with 1 tons in Baltic Proper.

	KT	DS	BP	BS	BB	GR	GF
KT	1	4.03	–	–	–	–	–
DS	0.84	1	3.18	–	–	–	–
BP	2.39	2.79	1	3.42	8.53	–	3.93
BS	3.81	4.64	1.50	1	2.57	–	6.00
BB	–	–	8.89	8.35	1	–	–
GR	3.79	4.40	1.53	4.95	–	1	6.55
GF	3.51	4.04	1.25	4.18	–	–	1

# REALLOCATING EXTRA REDUCTION

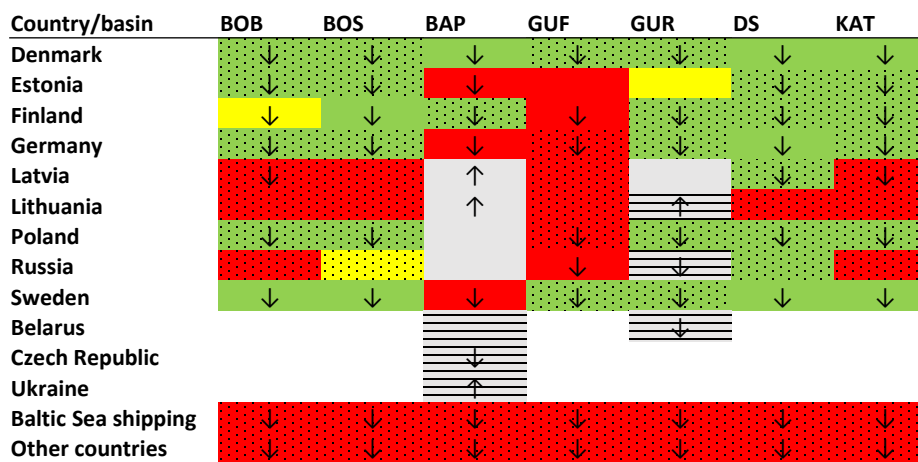
Sweden TP	BOB	BOS	BAP	GUF	GUR	DS	KAT
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C: Inputs 2017 including uncertainty (test value)	870	822	715			85	772
<b>Extra reduction by 2017 (A-C)</b>		303				20	
<b>Remaining reduction to fulfill NIC by 2017</b>	44		407				32
<i>Remaining in % of ceiling</i>			132				
<b>Accounting for extra reduction</b>	-94		-208				-24
<b>Remaining taking into account extra reduction</b>	0		199				8



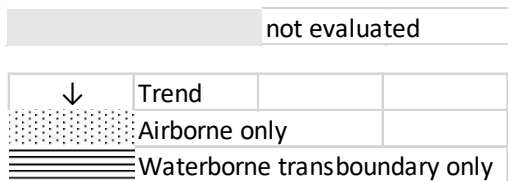
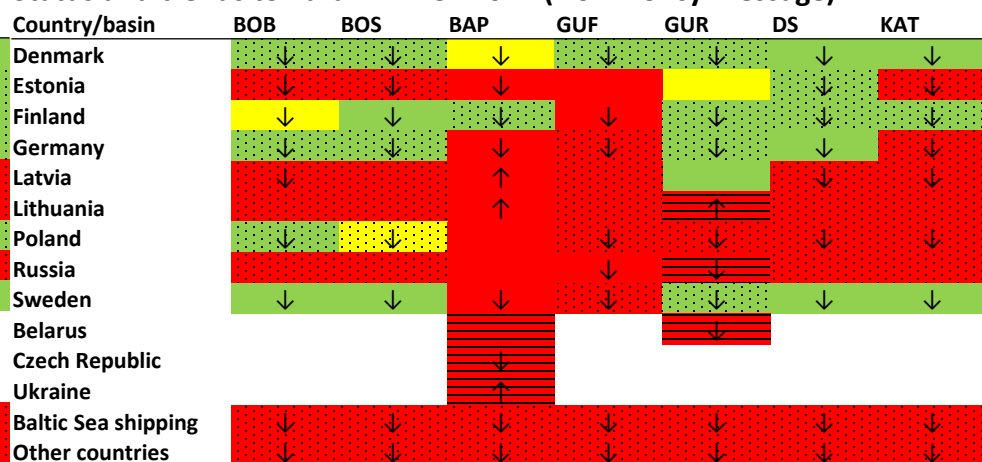
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<b>C: Inputs 2017 including uncertainty (test value)</b>	870	822	715			85	772
<b>Extra reduction by 2017 (A-C)</b>		303				20	
<b>Remaining reduction to fulfill NIC by 2017</b>	44		407				32
<i>Remaining in % of ceiling</i>	5,3		132				
<b>Significant changes since reference period (%) to 2017</b>	-	-35	-17			-24	-
<b>Accounting for extra reduction</b>	-94		-208				-24
<b>Remaining taking into account extra reduction</b>	0		199				8
<b>D: Proposed new input ceiling for TN</b>	811	1134	318			116	754
<b>Extra reduction by 2017 (A-D)</b>		312				31	
<b>Remaining reduction to fulfil new NIC by 2017</b>	59		397				18
<i>Remaining in % of proposed new input ceiling</i>	7		125				2
<b>Accounting for extra reduction</b>	-97		-218				-37
<b>Remaining taking into account extra reduction</b>	0		179				0



## Status and trends toward TN NIC - 2017



## Status and trends toward TN NIC - 2017 (from Policy Message)



With updated ceiling: 12 country-basins change to better colors of 70

### Remaining reduction in TN inputs to fulfill new input ceiling (%)

Country/basin	BOB	BOS	BAP	GUF	GUR	DS	KAT
Denmark	-	-	-	-	-	-	-
Estonia	-	-	24	25	3.1	-	-
Finland	1.2	-	-	8.4	-	-	-
Germany	-	-	12	-	-	-	-
Latvia	2.0	0.9	-	24	-	-	5.3
Lithuania	8.3	4.3	-	27	-	3.4	11
Poland	-	-	-	11	-	-	-
Russia	6.0	1.4	-	5.6	-	-	7.6
Sweden	-	-	25	-	-	-	-
Belarus			-		-		
Czech Republic			-				
Ukraine			-				
Baltic Sea shipping	58	53	49	43	134	46	29
Other countries	46	45	42	38	35	39	43

### Remaining reduction in TN inputs to fulfill input ceiling (%) (from Policy Message)

Country/basin	BOB	BOS	BAP	GUF	GUR	DS	KAT
Denmark	-	-	2.6	-	-	-	-
Estonia	3.2	9.3	30	26	3.6	-	6,8
Finland	1.2	-	-	7.5	-	-	-
Germany	-	-	39	18	-	-	27
Latvia	19	22	91	66	-	24	43
Lithuania	6.2	5.1	62	49	78	24	48
Poland	-	1.1	21	33	4.1	17	26
Russia	25	30	56	4.5	61	36	52
Sweden	-	-	24	2.2	-	-	-
Belarus			148		113		
Czech Republic			19				
Ukraine			58				
Baltic Sea shipping	520	498	438	559	412	475	509
Other countries	17	20	26	27	13	34	38

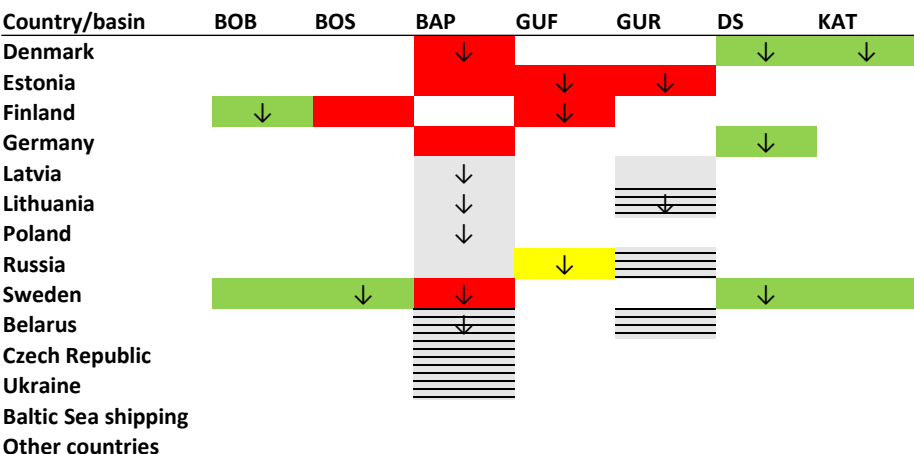
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Remaining reduction are lesser for 37 and higher for 10 of 47 country sub-basins using updated NIC's

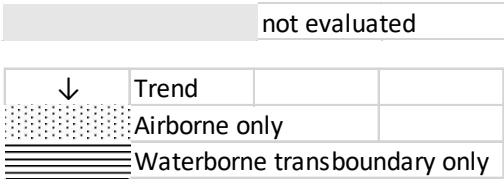
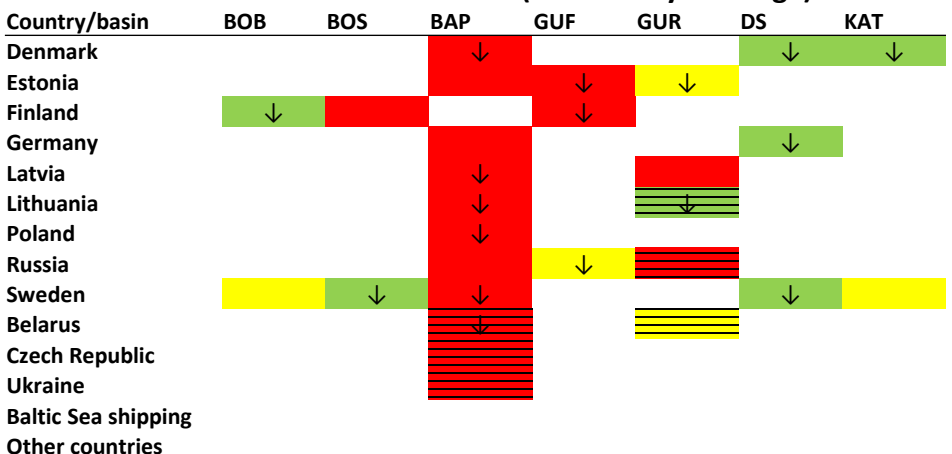




### Status and trend toward new TP NIC - 2017



### Status and trend toward TP NIC - 2017 (from Policy Message)



With updated ceiling: 2 country-basins change to better colors, one to worse of 17

Remaining reduction in TP inputs to fulfill new input ceiling (%)

Country/basin	BOB	BOS	BAP	GUF	GUR	DS	KAT
Denmark		-	112	-	-	-	-
Estonia			162	41	29		
Finland	-	9.0		111	-		
Germany			163			-	
Latvia			-		-		
Lithuania			-		-		
Poland			-				
Russia			-	9	-		
Sweden	7.3	-	125			-	2.3
Belarus			-		-		
Czech Republic			-				
Ukraine			-				
Baltic Sea shipping							
Other countries							

Remaining reduction in TP inputs to fulfill input ceiling (%) (from Policy Message)

Country/basin	BOB	BOS	BAP	GUF	GUR	DS	KAT
Denmark		-	109	-	-	-	-
Estonia			194	34	0.2		
Finland	-	8.2		107	-		
Germany			184			-	
Latvia			295		147		
Lithuania			33		-		
Poland			117				
Russia			172	10	22		
Sweden	5.3	-	132			-	4.3
Belarus			295		-		
Czech Republic			189				
Ukraine			622				
Baltic Sea shipping							
Other countries							

not evaluated

Remaining reduction are lesser for 5 and higher for 6 of 11 country sub-basins using updated NIC's



# TRANSBOUNDARY RIVERS – “NIC” STATUS BY 2017

## Fulfilment of provisional NIC by 2017

	TN	TP
Barta	↑	↓
Daugava	↓	↓
Lielupe	↑	↓
Nemunas	↑	↓
Neva		↓
Oder		↓
Pregolya		↑
Venta	↑	↓
Vistula	↓	

## Remaining reduction (%)

	TN	TP
Barta	103	82
Daugava	-	54
Lielupe	35	19
Nemunas	96	94
Neva	19	109
Oder	37	101
Pregolya	42	224
Venta	80	92
Vistula	21	177

## Significant changes since reference period (%)

	TN	TP
Barta	43	-43
Daugava	-12	-
Lielupe	23	-33
Nemunas	39	-35
Neva	-	-35
Oder	-	-30
Pregolya	-	12
Venta	29	-42
Vistula	-15	-





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Extra reduction equivalents for nitrogen: 4.61 tons extra TN reduction in Danish Straits is equivalent reducing TN inputs with 1 tons in Baltic Proper

	<b>KT</b>	<b>DS</b>	<b>BP</b>	<b>BS</b>	<b>BB</b>	<b>GR</b>	<b>GF</b>
<b>KT</b>	1	7.29	-	-	-	-	-
<b>DS</b>	1.70	1	4.61	-	-	-	-
<b>BP</b>	-	-	1	-	-	-	-
<b>BS</b>	-	-	-	1	7.79	-	-
<b>BB</b>	-	-	-	1.06	1	-	-
<b>GR</b>	-	-	1.29	-	-	1	-
<b>GF</b>	-	-	4.00	-	-	-	1



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