

SUB-APPENDIX 5.B

Examples of Subsidy Rate & Annual Settlement calculations

Contract on subsidy for carbon capture, transport, and Storage



Instructions for tenderers

The tenderers shall not fill in or complete this Appendix and it should not be submitted as a part of the tenderer's offer.

Sub-Appendix 5.B contains examples of the calculation of deductions in the calculation of the Subsidy Rate and examples of calculations made in connection with the Annual Settlement. The Sub-Appendix is provided solely for illustrative purposes and to present non-exhaustive examples of the subsidy calculation. In case of any discrepancies between this Sub-appendix and Appendix 5, Subsidy and economy scheme, Appendix 5 shall prevail.

This guidance text will be deleted by the DEA in connection with conclusion of the Contract.



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1. INTRODUCTION

This Appendix contains examples of the calculations of the Subsidy Rate and examples of calculations made in connection with the Annual Settlement.

All examples in this Appendix are made without indexation to illustrate how the mechanisms for the determination and calculation of the Subsidy Rate deductions work in principle. This means that the Offered Rate and baseline values are used in the examples without calculation of the indexed value in order to keep the examples simple and illustrative. Reference is made to clause 5 in Appendix 5, Subsidy and economy scheme, for a detailed description of which variables are subject to indexation and how these calculations are made.

It is emphasized that the examples are not an exhaustive representation of all possible scenarios.

The colored squares in the table of each example highlights the variables that may affect the calculation of the deductions and of the Subsidy Rate in the specific scenario.

Capitalised terms used in this Appendix shall have the meaning ascribed to them in Appendix 2, Definitions.

2. EXAMPLES OF DETERMINATION AND CALCULATION OF SUBSIDY RATE DEDUCTIONS REGARDING TOTAL EUA & CO₂-RELATED TAX SAVINGS (FOSSIL CO₂)

A total of seven examples have been included in order to illustrate the calculation of possible deductions in the calculation of the Subsidy Rate when the provisional EUA savings per tonne and/or provisional tax savings per tonne differ from the Baseline EUA Savings Per Tonne and/or Baseline Tax Savings Per Tonne.

The examples are based on an operator, who:

- capture and store fossil CO₂ subject to EUA, and CO₂-related taxes;
- has not specified a Baseline Total Carbon Credit Income, nor specified a Forecast Total Carbon Credit Income;
- has an Offered Rate of 850.00 DKK; and
- has an Annual Forecast Quantity equal to the Annual Quantity.

The examples reflect the determination and calculation of Subsidy Rate deductions regarding total EUA and CO₂-related tax savings as set out in clause 8 of Appendix 5 Subsidy and economy scheme.



The examples also reflect calculation of the Subsidy Rate based on the assumptions above¹ and without taken into account any future legislation regarding biogenic/atmospheric allowances, for operators that might be subject to such future legislation with respect to a biogenic /atmospheric fraction of the Contracted Quantity.

This means that the examples reflect a calculation of the Subsidy Rate as set out in clause 6.2 of Appendix 5, Subsidy and economy scheme – where the "*Excess income carbon credits*" is 0 (zero) and without indexation in accordance with clause 5 of Appendix 5, Subsidy and economy scheme.

Example 2.1: Market value of EUA is higher than Baseline EUA Value

Variables & parameters		Baseline	Forecast	
		values	Values	
Baseline Fossil EUA Fraction		50%		_
Baseline EUA Value		750.00		
Baseline EUA Savings Per Tonne		375.00		
Forecast Fossil EUA Fraction			50%	
Market value of EUA			850.00	
Provisional EUA savings per tone			425.00	
Difference between provisional EUA savings per tonne & Baseline EUA			50.00	
Savings Per Tonne ("subtotal one")				
	•		·	
Baseline Tax Savings Per Tonne		375.00		
Provisional tax savings per tonne			375.00	
Difference between provisional tax savings per tonne & Baseline Tax Savings			0.00	
Per Tonne ("subtotal two")				
"Subtotal one" + "subtotal two"			50.00	
Subsidy Rate deduction	1		50.00	
Offered Rate			850.00	
Subsidy Rate			800.00	

¹ And without the calculation of indexed value of Offered Rate and baseline values, see clause 1.



In example 2.1, the market value of EUA has proven to be 100.00 DKK higher than the Baseline EUA Value. The Forecast Fossil EUA Fraction remains at 50% - the same as the Baseline Fossil EUA Fraction. This means that the EUA savings have increased by 50.00 DKK per tonne of CO₂.

Since the Baseline Tax Savings Per Tonne and the provisional tax savings per tonne are of equal value, the savings from CO_2 -related taxes remain the same. As a result, the increase of total EUA and CO_2 related tax savings amount to 50.00 DKK per tonne.

As the total EUA and CO_2 -related tax savings has increased compared to baselines of the offer, the calculation of the Subsidy Rate shall be subject to a deduction equal to this increase of savings. The Subsidy Rate will therefore be 50.00 DKK less than the Offered Rate of 850.00 DKK. As a result, the Subsidy Rate is calculated to be 800.00 DKK.

The calculation can be expressed as follows:

Subsidy Rate = $Offered Rate_t - (\Delta Savings_{EUA} + \Delta Savings_{tax}) - 0.9 \cdot Excess_income_{CarbonCredits}$

 $\Delta Savings_{EUA} + \Delta Savings_{tax} = (50 + 0) = 50 > 0$, so

 $800 = 850 - (50) - 0.9 \cdot 0$

Example 2.2: Market value of EUA is lower than Baseline EUA Value

Variables & parameters	 Baseline values	Forecast Values	
Baseline Fossil EUA Fraction	50%		
Baseline EUA Value	750.00		
Baseline EUA Savings Per Tonne	375.00		
Forecast Fossil EUA Fraction		50%	
Market value of EUA		650.00	
Provisional EUA savings per tonne		325.00	
Difference between provisional EUA savings per tonne &		-50.00	
Baseline EUA Savings Per Tonne ("subtotal one")			
Baseline Tax Savings Per Tonne	375.00		



Provisional tax savings per tonne	375.00
Difference between provisional tax savings per tonne & Baseline Tax Savings Per Tonne ("subtotal two")	0.00
"Subtotal one" + "subtotal two"	-50.00
Subsidy Rate deduction	0
Offered Rate	850.00
Subsidy Rate	850.00

In example 2.2, the market value of EUA has proven to be 100.00 DKK lower than the Baseline EUA Value. The Forecast Fossil EUA Fraction remains at 50% - the same as the Baseline Fossil EUA Fraction. This means that the EUA savings have decreased by 50.00 DKK per tonne of CO₂.

Since the Baseline Tax Savings Per Tonne and the provisional tax savings per tonne are of equal value, the savings from CO_2 -related taxes remain the same. As a result, the decrease of total EUA and CO_2 -related tax savings amount to 50.00 DKK per tonne of CO_2 .

As the total EUA and CO₂-related tax savings has not increased, the calculation of the Subsidy Rate is not subject to any deduction. This means that the Subsidy Rate will be equal to the Offered Rate of 850.00 DKK.

The calculation can be expressed as follows:

Subsidy Rate = $Offered Rate_t - (\Delta Savings_{EUA} + \Delta Savings_{tax}) - 0.9 \cdot Excess_income_{CarbonCredits}$

 $\Delta Savings_{EUA} + \Delta Savings_{tax} = ((-50) + 0) = (-50) < 0$, so

 $850 = 850 - (0) - 0.9 \cdot 0$

Example 2.3: Forecast Fossil EUA Fraction & Forecast Total Tax Savings are higher compared to the baseline values

Variables & parameters	 Baseline	Forecast	
	values	Values	
Baseline Fossil EUA Fraction	50%		
Baseline EUA Value	750.00		



Baseline EUA Savings Per Tonne	375.00		
Forecast Fossil EUA Fraction		65%	
Market value of EUA		750.00	
Provisional EUA savings per tonne		487.50	-
Difference between provisional EUA savings per tonne & Baseline EUA		112.50	
Savings Per Tonne ("subtotal one")			
Baseline Total Tax Savings	37,500,000.00		
Annual Quantity	100,000		
Baseline Tax Savings Per Tonne	375.00		
Forecast Total Tax Savings		42,500,000.00	
Annual Forecast Quantity		100,000	
Provisional tax savings per tonne		425.00	
Difference between provisional tax savings per tonne & Baseline Tax		50.00	
Savings Per Tonne ("subtotal two")			
"Subtotal one" + "subtotal two"		162.50	
Subsidy Rate deduction		162.50	
Offered Rate		850.00	
Subsidy Rate		687.50	
			-

In example 2.3, the operator has submitted a forecast containing a higher Forecast Fossil EUA Fraction, and a higher Forecast Total Tax Savings compared to the corresponding baseline values. This results in higher EUA and tax savings per tonne of CO_2 compared to the operator's projections at the time of submission of the offer. The increase of EUA savings, due to the increase of the Forecast Fossil EUA Fraction, amount to 112.50 DKK per tonne of CO_2 .

The operator has submitted a Forecast Total Tax Savings that is 5,000,000.00 DKK higher than the Baseline Total Tax Savings. When divided with the Annual Forecast Quantity and the Annual Quantity respectively (both 100,000 tonnes), in order to transform the total tax savings into an amount per tonne of CO₂, the increase of CO₂-related tax savings amounts to 50.00 DKK per tonne of CO₂.

Adding these two sums together amounts to increase of total EUA and CO_2 -related tax savings of 162.50 DKK per tonne of CO_2 .



As this means that the total EUA and CO_2 -related tax savings have increased compared to the corresponding baseline savings, the calculation of the Subsidy Rate shall be subject to a deduction of an amount equal to the increase of total EUA and tax savings. The Subsidy Rate will therefore be 162.50 DKK less than the Offered Rate of 850.00 DKK. As a result, the Subsidy Rate is calculated to be 687.50 DKK.

The calculation can be expressed as follows:

Subsidy Rate = $Offered Rate_t - (\Delta Savings_{EUA} + \Delta Savings_{tax}) - 0.9 \cdot Excess_income_{CarbonCredits}$

 $\Delta Savings_{EUA} + \Delta Savings_{tax} = (112.5 + 50) = 162.5 > 0$, so

 $687.5 = 850 - (162.5) - 0.9 \cdot 0$

Example 2.4: Forecast Fossil EUA Fraction & Forecast Tax Savings are lower compared to the baseline values

Variables & parameters		Baseline values	Forecast Values	
Baseline Fossil EUA Fraction		50%		
Baseline EUA Value	-	750.00		
Baseline EUA Savings Per Tonne		375.00		
Forecast Fossil EUA Fraction	-		40%	
Market value of EUA	_		750.00	
Provisional EUA savings per tonne			300.00	
Difference between provisional EUA savings per tonne &	1		-75.00	
Baseline EUA Savings Per Tonne ("subtotal one")				
Baseline Total Tax Savings		37,500,000.00		
Annual Quantity	-	100,000		
Baseline Tax Savings Per Tonne	-	375.00		
Forecast Tax Savings Per Tonne			32,500,000.00	
Annual Forecast Quantity			100,000	



Provisional tax savings per tonne	325.00	
Difference between provisional tax savings per tonne & Baseline Tax Savings Per Tonne ("subtotal two")	-50.00	
"Subtotal one" + "subtotal two"	-125.00	
Subsidy Rate deduction	0	
Offered Rate	850.00	
Subsidy Rate	850.00	

In example 2.4, there is no difference between the Baseline EUA Value and the market value of EUA. However, the operator has submitted a forecast containing a lower Forecast Fossil EUA Fraction and a lower Forecast Total Tax Savings compared to the corresponding baseline values due to a lower fraction of the Annual Forecast Quantity being subject to EUA and CO₂-related taxes. This results in decreased EUA savings per tonne of CO₂. The decrease of EUA savings, due to the decrease of the fossil EUA fraction, amount to -75.00 DKK per tonne of CO₂.

The operator has a Forecast Total Tax Savings that is 5,000,000.00 DKK less than the Baseline Total Tax Savings. When divided with the Annual Quantity and the Annual Forecast Quantity respectively (both 100,000 tonnes), in order to transform the total tax savings into an amount per tonne of CO₂, the decrease of tax savings amounts to -50.00 DKK per tonne of CO₂.

Adding these two sums together amounts to decrease of total EUA and CO_2 -related tax savings of -125.00 DKK per tonne of CO_2 .

As the total EUA and CO₂-related tax savings have not increased compared to the corresponding baseline savings, the calculation of the Subsidy Rate is not subject to any deduction. This means that the Subsidy Rate will be equal to the Offered Rate of 850.00 DKK.

The calculation can be expressed as follows:

Subsidy Rate = $Offered Rate_t - (\Delta Savings_{EUA} + \Delta Savings_{tax}) - 0.9 \cdot Excess_income_{CarbonCredits}$

 $\Delta Savings_{EUA} + \Delta Savings_{tax} = ((-75) + (-50)) = (-125) < 0$, so

 $850 = 850 - (0) - 0.9 \cdot 0$



Example 2.5: Market value of EUA is higher than Baseline EUA Value and Forecasted Fossil EUA Fraction & Forecast Total Tax Savings are lower compared to the baseline values

Variables & parameters	 Baseline	Forecast	
	values	Values	
Baseline Fossil EUA Fraction	50%		
Baseline EUA Value	750.00		-
Baseline EUA Savings Per Tonne	375.00		
Forecast Fossil EUA Fraction		40%	
Market value of EUA		1,000.00	
Provisional EUA savings per tonne		400.00	
Difference between provisional EUA savings per tonne & Baseline EUA		25.00	
Savings Per Tonne ("subtotal one")			
		I	
Baseline Total Tax Savings	37,500,000.00		
Annual Quantity	100,000		
Baseline Tax Savings Per Tonne	375.00		
Forecast Total Tax Savings		32,500,000.00	
Annual Forecast Quantity		100,000	
Provisional tax savings per tonne		325.00	
Difference between provisional tax savings per tonne & Baseline Tax		-50.00	
Savings Per Tonne ("subtotal two")			
"Subtotal one" + "subtotal two"		-25.00	
Subsidy Rate deduction		0	
Offered Rate		850.00	
Subsidy Rate		850.00	

In example 2.5, the market value of EUA and the operator's Forecast Fossil EUA Fraction and Forecast Total Tax Savings affect the calculation of Subsidy Rate deduction in opposite directions.

Firstly, the market value of EUA of 1,000.00 DKK is higher than the Baseline EUA Value of 750.00 DKK.



Secondly, the operator has submitted a Forecast Fossil EUA Fraction, that is ten percentage points lower than the corresponding baseline value.

Even though the operator now expects to Store less Fossil CO_2 subject to EUA than projected at the time of submission of the offer, which – if the value of EUA were unchanged – would result in less EUA savings, the increase of market value of EUA outweighs this effect. The provisional EUA savings per tonne has therefore increased by 25.00 DKK per tonne of CO_2 compared to the Baseline EUA Savings Per Tonne.

Thirdly, the operator's Forecast Total Tax Savings is 5,000,000.00 DKK less than the Baseline Total Tax Savings. When divided with the Annual Forecast Quantity and the Annual Quantity respectively (both 100,000 tonnes), in order to transform the total tax savings into an amount per tonne of CO₂, the less tax savings amount to -50.00 DKK per tonne of CO₂.

Adding the increase of EUA savings and decrease of CO_2 -related tax savings together amounts to -25.00 DKK, which is the total change in savings.

As the total EUA and CO₂-related tax savings have not increased compared to the corresponding baseline savings, the calculation of the Subsidy Rate is not subject to any deduction. This means that the Subsidy Rate will be equal to the Offered Rate of 850.00 DKK.

The calculation can be expressed as follows:

Subsidy Rate = $Offered Rate_t - (\Delta Savings_{EUA} + \Delta Savings_{tax}) - 0.9 \cdot Excess_income_{CarbonCredits}$

 $\Delta Savings_{EUA} + \Delta Savings_{tax} = (25 + (-50)) = (-25) < 0$, so

 $850 = 850 - (0) - 0.9 \cdot 0$

Example 2.6: Market value of EUA is lower than Baseline EUA Value and Forecasted Fossil EUA Fraction & Forecast Total Tax Savings are higher compared to the baseline values

Variables & parameters	 Baseline	Forecast	
	values	Values	
Baseline Fossil EUA Fraction	50%		
Baseline EUA Value	750.00		
Baseline EUA Savings Per Tonne	375.00		



Forecast Fossil EUA Fraction		65%	
Market value of EUA		650.00	
Provisional EUA savings per tonne		422.50	
Difference between provisional EUA savings per tonne & Baseline EUA		47.50	1
Savings Per Tonne ("subtotal one")			
			-
Baseline Total Tax Savings	37,500,000.00		
Annual Quantity	100,000		-
Baseline Tax Savings Per Tonne	375.00		-
Forecast Total Tax Savings		48,750,000.00	
Annual Forecast Quantity		100,000	1
Provisional tax savings per tonne		487.50	1
Difference between provisional tax savings per tonne & Baseline Tax		112.50]
Savings Per Tonne ("subtotal two")			
			-
"Subtotal one" + "subtotal two"		160.00	
Subsidy Rate deduction		160.00	1
Offered Rate		850.00	
Subsidy Rate		690.00	

In example 2.6, the operator has increased provisional EUA savings per tonne despite a decrease in the market value of EUA compared to the Baseline EUA Value. The operators provisional tax savings per tonne have also increased compared to the Baseline Tax Savings Per Tonne.

Firstly, the market value of EUA of 650.00 DKK is lower than the Baseline EUA Value of 750.00 DKK. Secondly, the operator has also submitted a Forecast Fossil EUA Fraction that is 15 percentage points higher than the Baseline Fossil EUA Fraction.

Even though the market value of EUA has turned out to be lower compared to the Baseline EUA Value, the operator now expects to Store more Fossil CO₂ subject to EUA than projected at the time of the offer, and this effect outweighs the impact of a lower market value of EUA. The operator's provisional EUA savings per tonne have therefore increased by 47.50 DKK per tonne of CO₂ compared to the Baseline EUA Savings Per Tonne.



Thirdly, the operator has submitted a Forecast Total Tax Savings that is 11,250,000.00 DKK higher than the Baseline Total Tax Savings. When divided with the Annual Forecast Quantity and the Annual Quantity respectively (both 100,000 tonnes), in order to transform the total tax savings into an amount per tonne of CO₂, the increase of CO₂-related tax savings amounts to 112.50 DKK per tonne of CO₂.

Adding the increase of EUA savings per tonne and increase of CO₂-related tax savings per tonne together amounts to 160.00 DKK per tonne, which is the total increase of savings.

As the total EUA and CO₂-related tax savings have increased compared to the corresponding baseline savings, the calculation of the Subsidy Rate shall be subject to a deduction of an amount equal to this increase of savings. The Subsidy Rate will therefore be 160.00 DKK less than the Offered Rate of 850.00 DKK. As a result, the Subsidy Rate is calculated to be 690.00 DKK.

The calculation can be expressed as follows:

Subsidy Rate = $Offered Rate_t - (\Delta Savings_{EUA} + \Delta Savings_{tax}) - 0.9 \cdot Excess_income_{CarbonCredits}$

 $\Delta Savings_{EUA} + \Delta Savings_{tax} = (112.5 + 50) = 162.5 > 0$, so

 $687.5 = 850 - (162.5) - 0.9 \cdot 0$

Example 2.7 Market value of EUA is lower than Baseline EUA Value and Forecast Total Tax Savings are higher than Baseline Total Tax Savings

Variables & parameters		Baseline values	Forecast Values	
Baseline Fossil EUA Fraction		50%		
Baseline EUA Value	-	750.00		
Baseline EUA Savings Per Tonne	-	375.00		
Forecast Fossil EUA Fraction	-		50%	
Market value of EUA	-		500.00	
Provisional EUA savings per tonne	-		250.00	
Difference between provisional EUA savings per tonne & Baseline EUA Savings Per Tonne ("subtotal one")			-125.00	



Baseline Total Tax Savings	37,500,000.00		
Annual Quantity	100,000		
Baseline Tax Savings Per Tonne	375.00		
Forecast Total Tax Savings		47,500,000.00	
Annual Forecast Quantity		100,00	
Provisional tax savings per tonne		475.00	
Difference between provisional tax savings per tonne & Baseline Tax Savings Per Tonne ("subtotal two")		100.00	
"Subtotal one" + "subtotal two"		-25.00	
Subsidy Rate deduction		0	
Offered Rate		850.00	
Subsidy Rate		850.00	

In example 2.7, the Forecast Total Tax Savings has increased compared to the baseline value, while the Forecast Fossil EUA Fraction remains equal to the Baseline Fossil EUA Fraction. This outcome may e.g. occur if legislative changes results in an increase of the Emission Tax and/or CO_2 Tax rates.

The operator has therefore submitted a Forecast Total Tax Savings that is 10,000,000.00 DKK higher than the Baseline Total Tax Savings. When divided with the Annual Quantity and the Annual Forecast Quantity respectively (both 100,000 tonnes), in order to transform the total tax savings into an amount per tonne of CO_2 , the increase of tax savings amounts to 100.00 DKK per tonne of CO_2 .

Furthermore, the market value of EUA has proven to be 250.00 DKK lower than the Baseline EUA Value. The Forecast Fossil EUA Fraction remains at 50% - the same as the Baseline Fossil EUA Fraction. This means that the EUA savings have decreased by 125.00 DKK per tonne of CO₂.

When adding the decrease of EUA savings and the increase of tax savings, the sum amounts to -25.00 DKK, i.e. a decrease of the total EUA and tax savings.

As the total EUA and CO_2 -related tax savings have not increased compared to baseline savings, the calculation of the Subsidy Rate is not subject to any deduction. This means that the Subsidy Rate will be equal to the Offered Rate of 850.00 DKK.



The calculation can be expressed as follows:

Subsidy Rate = $Offered Rate_t - (\Delta Savings_{EUA} + \Delta Savings_{tax}) - 0.9 \cdot Excess_income_{CarbonCredits}$

 $\Delta Savings_{EUA} + \Delta Savings_{tax} = (-125 + 100)) = (-25) < 0$, so

 $850 = 850 - (0) - 0.9 \cdot 0$

3. EXAMPLES OF DETERMINATION AND CALCULATION OF SUBSIDY RATE DEDUCTIONS REGARDING CARBON CREDIT INCOME AND OTHER ALLOWANCES SAVINGS (BIOGENIC AND ATMOSPHERIC CO₂)

The following examples illustrate the calculation of possible deductions in the calculation of the Subsidy Rate when the operator submits a forecast containing a Forecast Total Carbon Credit Income that differs from the Baseline Total Carbon Credit Income.

Example 3.2 - 3.6 also illustrate the possible impact on calculation of the Subsidy Rate in scenarios where future legislation entails that participation in the EU Emissions Trade Scheme (ETS), or a similar EU-mandated trade scheme, becomes either mandatory for emitters of Biogenic CO₂ or voluntary for emitters of Biogenic CO₂ and operators capturing Atmospheric CO₂.

The examples are based on an operator, who:

- capture and store biogenic CO₂;
- does not store fossil CO₂ subject to EUA and CO₂-related taxes;
- has an Offered Rate of 850.00 DKK, and
- has an Annual Forecast Quantity equal to the Annual Quantity

The examples reflect the determination and calculation of Subsidy Rate deductions regarding Carbon Credit income (as set out in clause 9 of Appendix 5, Subsidy and economy scheme) and other allowances savings (as set out in clause 10 of Appendix 5, Subsidy and economy scheme).

The examples also reflect calculation of the Subsidy Rate based on the assumptions above and without the calculation of indexed value of Offered Rate and baseline values.



This means that the examples reflect calculation of the Subsidy Rate as set out in the formulas in clause 6.2 – 6.4 of Appendix 5² where ($\Delta Savings_{EUA} + \Delta Savings_{tax}$) is 0 (zero) and without indexation in accordance with clause 5 of Appendix 5, Subsidy and economy scheme.

Example 3.1 Forecast Total Carbon Credit Income is higher than Baseline Total Carbon Credit Income – no income from other allowances savings

Variables & parameters	 Baseline values	Forecast	
		Values	
Baseline Total Carbon Credit Income	15,000,000.00		-
Forecast Total Carbon Credit Income		20,000,000.00	
Annual Forecast Quantity		100,000	
Provisional excess Carbon Credit income per tonne		50.00	
90% of provisional excess Carbon Credit income per tonne		45.00	
Subsidy Rate deduction		45.00	
Offered Rate		850.00	
Subsidy Rate		805.00	

In example 3.1, the operator has specified a Baseline Total Carbon Credit Income of 15,000,000.00 DKK. The operator has furthermore submitted a Forecast Total Carbon Credit Income of 20,000,000.00 DKK. The difference between the forecast and the baseline is 5,000,000.00 DKK.

The provisional excess Carbon Credits income per tonne is the difference (5,000,000.00 DKK) divided by the Annual Forecast Quantity (100,000 tonnes). In this example that amount equals 50.00 DKK.

The calculation of the Subsidy Rate is subject to a deduction of 90% of such excess income. This means that the Subsidy Rate will be 45.00 DKK less than the Offered Rate of 850.00 DKK. As a result, the Subsidy Rate is calculated to be 805.00 DKK.

The calculation can be expressed as follows:

² Example 1 reflects the formula in clause 6.2, example 2, 3 and 4 reflect the formula in clause 6.3 and example 5 and 6 reflect the formula in clause 6.4.



Subsidy Rate = $Offered Rate_t - (\Delta Savings_{EUA} + \Delta Savings_{tax}) - 0.9 \cdot Excess_income_{CarbonCredits}$

 $0.9 \cdot Excess_{income_{CarbonCredits}} = 0.9 \cdot 50 = 45 > 0$, so

805 = 850 - (0) - (45)

Example 3.2 Calculation of a Subsidy Rate deduction if participation in the ETS becomes <u>mandatory</u> (Biogenic CO₂) – no income from Carbon Credits specified

Variables & parameters	 Baseline values	Forecast Values	
Forecast Biogenic Allowances Fraction		50%	
Market value of Biogenic Allowances		750.00	
Provisional biogenic allowances savings per tonne		375.00	
Subsidy Rate deduction		375.00	
Offered Rate		850.00	
Subsidy Rate		475.00	

In example 3.2, Biogenic CO₂ has become subject to EU ETS (<u>mandatory</u>) and the operator has not specified any income generated by Carbon Credits in the offer or in the forecast.

This means that only a deduction regarding the biogenic allowances savings will apply in the calculation of the Subsidy Rate. The provisional biogenic allowances savings per tonne amounts to 375.00 DKK, calculated by multiplying the Forecast Biogenic Allowances Fraction of 50% with the market value of biogenic allowances of 750.00 DKK.

The calculation of the Subsidy Rate shall be subject to a deduction equal to the new savings stemming from the mandatory inclusion of Biogenic CO_2 in the ETS and the Subsidy Rate will therefore be 375 DKK less than the Offered Rate of 850.00 DKK. As a result, the Subsidy Rate is calculated to be 475.00 DKK.

The calculation can be expressed as follows:



Subsidy Rate = $Offered Rate_t - (\Delta Savings_{EUA} + \Delta Savings_{tax}) - 0.9 \cdot Excess_{income_{CarbonCredits}} - (Savings_{BiogenicAllowances} + decreased_income_{CarbonCredits})$

 $(Savings_{BiogenicAllowances} + decreased_income_{CarbonCredits}) = 375 + 0 = 375 > 0$, so

 $475 = 850 - (0) - 0.9 \cdot 0 - (375 + 0)$

Example 3.3 Calculation of a Subsidy Rate deduction if participation in the ETS becomes <u>mandatory</u> (Biogenic CO₂) – inclusion in the ETS has negatively affected the operator's Carbon Credit income

Variables & parameters		Baseline values	Forecast Values	
Baseline Total Carbon Credit Income		15,000,000.00		
Forecast Total Carbon Credit Income			0.00	
Annual Forecast Quantity	Ì		100,000	
Provisional excess Carbon Credit income per tonne			0	1
Decrease of Carbon Credit Income ("subtotal one")			-150.00	
Forecast Biogenic Allowances Fraction			50%	
Market value biogenic allowances			750.00	
Provisional biogenic allowances savings per tonne ("subtotal two")]		375.00]
	•			
"Subtotal two" + "subtotal one"			225.00	
Subsidy Rate deduction			225.00	
Offered Rate			850.00	
Subsidy Rate			625.00	



In example 3.3, the operator has specified a Baseline Total Carbon Credit Income of 15,000,000.00 DKK. However, after the mandatory inclusion into the ETS,³ the operator's Forecast Total Carbon Credit Income has dropped to 0.00 DKK. The difference between the forecast and the baseline is therefore -15,000,000.00 DKK.

As such, the operator has no excess income from Carbon Credits, but instead a decreased Carbon Credit income. The decreased Carbon Credits income per tonne is the difference between the Baseline Total Carbon Credit Income and Forecast Total Carbon Credit Income (-15,000,000.00 DKK) divided by the Annual Forecast Quantity (100,000 tonnes). This amount equals -150.00 DKK.

The provisional biogenic allowances savings per tonne amounts to 375.00 DKK, calculated by multiplying the Forecast Biogenic Allowances Fraction of 50% with the market value biogenic allowance of 750.00 DKK.

As the operator has no excess income from Carbon Credits, the only possible deduction is the savings of biogenic allowances but taking into account the decreased income of Carbon Credits.

As such, the operator's savings of biogenic allowances per tonne CO_2 are higher than the decrease of Carbon Credit income. This means that the calculation of the Subsidy Rate shall be subject to a deduction of an amount equal to the difference between the provisional biogenic allowances savings per tonne and the decrease of Carbon Credit income per tonne. The deduction is calculated by adding the decrease of Carbon Credit income per tonne (a negative amount) to the biogenic allowances saving. This amounts, in this example, to 225.00 DKK, which consequently will constitute the deduction in the calculation of the Subsidy Rate. As a result of the deduction, the Subsidy Rate is calculated to be 625.00 DKK.

The calculation can be expressed as follows:

Subsidy Rate = $Offered Rate_t - (\Delta Savings_{EUA} + \Delta Savings_{tax}) - 0.9 \cdot Excess_{income_{CarbonCredits}} - (Savings_{BiogenicAllowances} + decreased_income_{CarbonCredits})$

 $(Savings_{BiogenicAllowances} + decreased_income_{CarbonCredits}) = (375 + (-150)) = 225 > 0$, so

$$625 = 850 - (0) - 0.9 \cdot 0 - (225)$$

If the operator had had a loss of income from Carbon Credits exceeding the Provisional Biogenic Allowances Savings per tonne (375.00 DKK), meaning that the sum of these amounts would be a negative amount, the

³ This may occur if e.g. the operator's ability to sell carbon credits is directly inhibited by the operator's inclusion into the ETS.



calculation of the Subsidy Rate would not be subject to a deduction, as the Subsidy Rate cannot exceed the Offered Rate⁴. In such an example, the Subsidy Rate would be equal to the Offered Rate, i.e. 850.00 DKK.

Example 3.4 Calculation of a Subsidy Rate deduction if participation in the ETS becomes <u>mandatory</u> (Biogenic CO₂) – inclusion in the ETS has not negatively affected the operator's Carbon Credit income

Variables & parameters	 Baseline values	Forecast Values	
Baseline Total Carbon Credit Income	15,000,000.00		
Forecast Total Carbon Credit Income		20,000,000.00	
Annual Forecast Quantity		100,000	
Provisional excess Carbon Credit income per tonne		50.00	
90% of provisional excess Carbon Credit income per tonne ("subtotal one")		45.00	
Decrease of Carbon Credit Income		0.00	
Forecast Biogenic Allowances Fraction		50%	
Market value biogenic allowances		750.00	
Provisional biogenic allowances savings per tonne ("subtotal two")		375.00	
"Subtotal one" + "subtotal two"		420.00	
Subsidy Rate deduction		420.00	
Offered Rate		850.00	
Subsidy Rate		430.00	

In example 3.4, the operator has specified a Baseline Total Carbon Credit Income of 15,000,000.00 DKK. Inclusion into the ETS has not negatively affected the operator's Carbon Credit income. Consequently, the operator's decrease of Carbon Credit income is 0. On the contrary, the operator has submitted a Forecast Total Carbon Credit Income of 20,000,000.00 DKK, which is higher than the corresponding baseline value,

⁴ Note, the Subsidy Rate cannot exceed the Offered Rate adjusted in accordance with clause 5.2, Appendix 5, but for the sake of simplicity the examples are without the indexation.



resulting in an excess Carbon Credit income. The difference between the forecast and the baseline is 5,000,000.00 DKK.

The provisional excess Carbon Credits income per tonne is the difference (5,000,000.00 DKK) divided by the Annual Forecast Quantity (100,000 tonnes). This amount equals 50.00 DKK. The calculation of the Subsidy Rate is subject to a deduction of 90% of this excess income, equal to 45.00 DKK.

Furthermore, the calculation of the Subsidy Rate is also subject to a deduction equal to the savings of biogenic allowances. The provisional biogenic allowances savings per tonne amount to 375.00 DKK, which is calculated by multiplying the operator's Forecast Biogenic Allowances Fraction of 50% with the market value of the biogenic allowances of 750.00 DKK.

This means that the Carbon Credit income and savings from biogenic allowances per tonne CO_2 has increased compared to the corresponding baseline values. The calculation of the Subsidy Rate shall be subject to a deduction of an amount equal to the sum of 90% of the excess Carbon Credit income per tonne and the biogenic allowances savings. This sum amounts to 420 DKK. As a result, the Subsidy Rate is calculated to be 430.00 DKK.

The calculation can be expressed as follows:

Subsidy Rate = $Offered Rate_t - (\Delta Savings_{EUA} + \Delta Savings_{tax}) - 0.9 \cdot Excess_{income_{CarbonCredits}} - (Savings_{BiogenicAllowances} + decreased_income_{CarbonCredits})$

 $(Savings_{BiogenicAllowances} + decreased_income_{CarbonCredits}) = (375 + 0)) = 375 > 0$

 $0.9 \cdot Excess_{income_{CarbonCredits}} = 0.9 \cdot 50 = 45 > 0$, so

430 = 850 - (0) - (45) - (375)

Example 3.5 Calculation of a Subsidy Rate deduction if participation in the ETS becomes <u>voluntary</u> (Biogenic and Atmospheric CO₂) – no income from Carbon Credits specified

Variables & parameters	 Baseline values	Forecast Values	
Forecast Biogenic Allowances Fraction		50%	
Market value biogenic allowances		750.00	



Provisional biogenic allowances savings per tonne	375.00
90% of Provisional biogenic allowances savings	337.50
Subsidy Rate deduction	337.50
Offered Rate	850.00
Subsidy Rate	512.50

In example 3.5, the operator (or a Sub-Supplier that the operator bases the performance of the Contract on) has chosen to participate in the voluntary ETS. The operator has not specified an income from Carbon Credits in the offer or the forecast. The deduction of the Subsidy Rate will therefore be calculated only on the basis of the biogenic allowances savings.⁵ The deduction in the calculation of the Subsidy Rate will be 90% of the savings of biogenic allowances.

The operator's provisional biogenic allowances savings per tonne amount to 375 DKK, which is calculated by multiplying the operator's Forecast Biogenic Allowances Fraction of 50% with the market value of the biogenic allowances of 750.00 DKK.

90 % of such allowances savings per tonne will constitute the deduction in the calculation of the Subsidy Rate This sum amounts to 337.50 DKK. As a result, the Subsidy Rate is calculated to be 512.50 DKK.

The calculation can be expressed as follows:

Subsidy Rate = $Offered Rate_t - (\Delta Savings_{EUA} + \Delta Savings_{tax}) - 0.9 \cdot Excess_{income_{CarbonCredits}} - 0.9 \cdot (Savings_{BiogenicAllowances} + decreased_income_{CarbonCredits})$

 $(Savings_{BiogenicAllowances} + decreased_income_{CarbonCredits}) = (375 + 0)) = 375 > 0$

& $Excess_{income_{CarbonCredits}} = 0$, so

 $512.5 = 850 - (0) - (0.9 \cdot 0) - (0.9 \cdot 375)$

⁵ For the purpose of this example, it is assumed that the operator only captures and Stores Biogenic CO₂. However, the same example would be applicable if the operator captured and stored Atmospheric CO₂.



Example 3.6 Calculation of a Subsidy Rate deduction if participation in the ETS becomes <u>voluntary</u> (Biogenic and Atmospheric CO_2) - participation in the ETS has negatively affected the operator's Carbon Credit income

Variables & parameters		Baseline values	Forecast Values	
Baseline Total Carbon Credit Income		15,000,000.00		
Forecast Carbon Credit Income			10,000,000.00	
Annual Forecast Quantity			100,000	
Excess Carbon Credit Income			0.00	
Decrease of Carbon Credit income ("subtotal one")			-50.00	
Forecast Biogenic Allowances Fraction			50%	
Market value biogenic allowances	-		750.00	
Provisional biogenic allowances savings per tonne ("subtotal two")			375.00	
Excess income ("subtotal two" + "subtotal one")			325.00	
90% of excess income per tonne			292.50	
Subsidy Rate deduction			292.50	
Offered Rate			850.00	
Subsidy Rate			557.50	

In example 3.6 the operator (or a Sub-Supplier that the operator bases the performance of the Contract on) has chosen to participate in the voluntary ETS.⁶ As the operator has no excess income from Carbon Credits, the only possible deduction in the calculation of the Subsidy Rate shall be 90% of the savings of biogenic allowances but taking into account the decrease of income of Carbon Credits.

⁶ For the purpose of this example, it is assumed that the operator only captures and Stores Biogenic CO₂. However, the same example would be applicable if the operator captured and stored Atmospheric CO₂.



The provisional biogenic allowances savings per tonne amount to 375.00 DKK, which is calculated by multiplying the operator's Forecast Biogenic Allowances Fraction of 50% with the market value of the biogenic allowances of 750.00 DKK.

However, the operator's participation in the ETS has negatively affected the income from Carbon Credits. Therefore, the operator has submitted a lower Forecast Total Carbon Credit Income (10,000,00.00 DKK) compared to the Baseline Total Carbon Credit Income (15,000,000.00 DKK). The difference between the forecast and the baseline is -5,000,000.00 DKK.

The decrease of Carbon Credit income pr tonne is this difference (-5,000,000.00 DKK) divided by the Annual Forecast Quantity (100,000 tonnes). This amount equals -50.00 DKK.

In order to determine whether a reduction shall apply the provisional biogenic allowances savings is added together with the amount equal to the decrease of the Carbon Credits income. This amounts to 325.00 DKK.

The calculation of the Subsidy Rate is subject to a deduction of 90% of this sum of the biogenic allowances savings and the decrease of the Carbon Credit income. This equals 292.50 DKK. As a result, the Subsidy Rate will be calculated to be 557.50 DKK.

The calculation can be expressed as follows:

Subsidy Rate = $Offered Rate_t - (\Delta Savings_{EUA} + \Delta Savings_{tax}) - 0.9 \cdot Excess_{income_{CarbonCredits}} - 0.9 \cdot (Savings_{BiogenicAllowances} + decreased_income_{CarbonCredits})$

 $(Savings_{BiogenicAllowances} + decreased_income_{CarbonCredits}) = (375 + (-50))) = 325 > 0$

& $Excess_{income_{CarbonCredits}} = 0$, so

 $557.5 = 850 - (0) - (0.9 \cdot 0) - (0.9 \cdot 325)$

4. EXAMPLES OF DETERMINATION AND CALCULATION OF A SUBSIDY RATE DEDUCTION FOR OPERATORS WITH A CARBON CREDIT INCOME WHO ALSO STORE FOSSIL CO₂ SUBJECT TO EUA

These examples reflect the determination and calculation of Subsidy Rate deductions regarding total EUA and CO₂ related tax savings (as set out in clause 8 of Appendix 5, Subsidy and economy scheme), carbon credit



income (as set out in clause 9 of Appendix 5, Subsidy and economy scheme) and other allowances savings (as set out in clause 10 of Appendix 5, Subsidy and economy scheme).

The examples also reflect calculation of the Subsidy Rate based on the assumptions below and without the calculation of indexed value of Offered Rate and baseline values.

4.1 Example 4.1 Higher EUA & tax savings and higher Carbon Credit Income

Example 4.1 illustrates a scenario where the following apply:

- Market value of EUA is higher than Baseline EUA Value;
- Forecast Fossil EUA Fraction and provisional tax savings per tonne are higher compared to the baseline values;
- Forecast Total Carbon Credit Income is higher than the Baseline Total Carbon Credit income;
- No inclusion of Biogenic/Atmospheric CO₂ in ETS;
- The Annual Forecast Quantity is equal to the Annual Quantity; and
- The Offered Rate is 850.00 DKK.

Variables & parameters	 Baseline values	Forecast Values	
Baseline Fossil EUA Fraction	50%		-
Baseline EUA Value	750.00		
Baseline EUA Savings Per Tonne	375.00		
Forecast Fossil EUA Fraction		65%	
Market value of EUA		850.00	
Provisional EUA savings per tonne		552.50	
Difference between provisional EUA savings per tonne & Baseline		177.50	
EUA Savings Per Tonne ("subtotal one")			
Baseline Total Tax Savings	37,500,000.00		
Annual Quantity	100,000		



Baseline Tax Savings Per Tonne	375.00	
Forecast Total Tax Savings		48,750,000.00
Annual Forecast Quantity		100,000
Provisional tax savings per tonne		487.50
Difference between provisional tax savings per tonne & Baseline Tax Savings Per Tonne ("subtotal two")		112.50
Subsidy Rate deduction regarding total EUA and CO ₂ -related tax savings ("subtotal one" + "subtotal two")		290.00
Baseline Total Carbon Credit Income	15,000,000.00	
Forecast Total Carbon Credit Income		20,000,000.00
Annual Forecast Quantity		100,000
Provisional excess Carbon Credit income per tonne		50.00
Subsidy Rate deduction of 90% of provisional excess Carbon Credit income per tonne ("subtotal three")		45.00
("Subtotal one" + "subtotal two") + "subtotal three"		335.00
Subsidy Rate deduction		335.00
Offered Rate		850.00
Subsidy Rate		515.00

In example 4.1 the operator stores both Fossil and Biogenic CO_2 and has a Baseline Carbon Credit Income. The Subsidy Rate is subject to two possible deductions; 1) the sum of the EUA savings and CO_2 -related tax savings and 2) 90% of the excess income from Carbon Credits.

The market value EUA has proven to be 100.00 DKK higher than the Baseline EUA Value. The operator has furthermore submitted a forecast containing an increase in the Forecast Fossil EUA Fraction compared to the Baseline Fossil EUA Fraction. Both of these factors lead to a higher provisional EUA savings per tonne compared to the operator's Baseline EUA Savings Per Tonne. The increase of savings amounts to 177.50 DKK per tonne of CO₂.

The operator has also submitted a forecast containing a Forecast Total Tax Savings amounting to 48,750,000.00, which is higher than the Baseline Total Tax Savings. The Baseline Tax Savings Per Tonne is



375 DKK calculated on the basis of the Baseline Total Tax Savings of 37,500,000.00 and the Annual Quantity of 100,000 tonnes The Forecast Total Tax Savings is divided by the Annual Forecast Quantity of 100,000 tonnes, which results in a provisional tax savings per tonne of 487.50 DKK. In total, the provisional tax savings per tonne is therefore 112.50 DKK higher than the Baseline Tax Savings Per Tonne.

The sum of 1) the difference between provisional EUA savings per tonne and the Baseline EUA Savings Per Tonne, and 2) the difference between the provisional tax savings per tonne and the Baseline Tax Savings Per Tonne, is 290.00 DKK and represents the deduction regarding total EUA and CO_2 related tax savings in the calculation of the Subsidy Rate.

The operator has specified a Baseline Total Carbon Credit Income of 15,000,000.00 DKK. The operator has submitted a Forecast Total Carbon Credit Income of 20,000,000.00 DKK. The difference between the forecast and the baseline is 5,000,000.00 DKK, which means that the operator has an excess Carbon Credit income.

The provisional excess Carbon Credits income per tonne is this difference (5,000,000.00 DKK) divided by the Annual Forecast Quantity (100,000 tonnes). This amount equals 50.00 DKK. The calculation of the Subsidy Rate will be subject to a deduction of 90% of this excess income which is equal to 45.00 DKK.

In total, there is both higher total savings from EUA and CO₂-related taxes and excess income generated by Carbon Credits compared to the corresponding baseline value. The calculation of the Subsidy Rate shall be subject to a deduction equal to the increase of total EUA and CO₂-related tax savings and a deduction equal to 90 % of the increase of Carbon Credit income. This amounts to 335.00 DKK. As a result, the Subsidy Rate is calculated to be 515.00 DKK.

The calculation can be expressed as follows:

Subsidy Rate = $Offered Rate_t - (\Delta Savings_{EUA} + \Delta Savings_{tax}) - 0.9 \cdot Excess_income_{CarbonCredits}$

 $\Delta Savings_{EUA} + \Delta Savings_{tax} = 177.5 + 112.5 = 290 > 0$, so

& $0.9 \cdot Excess_{income_{CarbonCredits}} = 0.9 \cdot 50 = 45 > 0$, so

515 = 850 - (290) - (45)

4.2 Example 4.2 Higher EUA & tax savings and lower Carbon Credit Income

Example 4.2 illustrates a scenario where the following apply:



- Market value of EUA is higher than Baseline EUA Value;
- Forecast Fossil EUA Fraction and provisional tax savings per tonne are higher compared to the baseline values;
- Forecast Total Carbon Credit Income is lower than Baseline Total Carbon Credit Income;
- No inclusion of Biogenic/Atmospheric CO₂ in ETS;
- The Forecast Quantity is equal to the Annual Quantity; and
- The Offered Rate is 850.00 DKK.

Variables & parameters		Baseline values	Forecast Values	
Baseline Fossil EUA Fraction	-	50%		-
Baseline EUA Value		750.00		-
Baseline EUA Savings Per Tonne		375.00		-
Forecast Fossil EUA Fraction			65%	
Market value of EUA			850.00	
Provisional EUA savings per tonne			552.50	1
Difference between provisional EUA savings per tonne & Baseline	1		177.50	1
EUA Savings Per Tonne ("subtotal one")				
				•
Baseline Total Tax Savings		37,500,000.00		
Annual Quantity		100,000		-
Baseline Tax Savings Per Tonne		375.00		-
Forecast Total Tax Savings			48,750,000.00	
Annual Forecast Quantity			100,000	-
Forecast Tax Savings Per Tonne			487.50	
Difference between provisional tax savings per tonne & Baseline Tax]		112.50]
Savings Per Tonne ("subtotal two")				
Subsidy Rate deduction regarding total EUA and CO ₂ -related tax			290.00	
savings ("subtotal one" + "subtotal two")				



Baseline Total Carbon Credit Income	15,000,000.00		
Forecast Total Carbon Credit Income		5,000,000.00	
Annual Forecast Quantity		100,000	
Provisional excess Carbon Credit income per tonne		0.00	
Excess income ("subtotal three")		0.00	
("Subtotal one" + "subtotal two") + "subtotal three"		290.00	
Subsidy Rate deduction		290.00	
Offered Rate		850.00	
Subsidy Rate		560.00	

In example 4.2, the operator stores both Fossil and Biogenic CO_2 and has a Baseline Carbon Credit Income. The Subsidy Rate is subject to two possible deductions; 1) the sum of the EUA savings and CO_2 -related tax savings and 2) 90% of the excess income from Carbon Credits.

The market value EUA has proven to be 100.00 DKK higher than the Baseline EUA Value. The operator has furthermore submitted a forecast containing an increase in the Forecast Fossil EUA Fraction compared to the Baseline Fossil EUA Fraction. Both of these factors lead to a higher provisional EUA savings per tonne compared to the operator's Baseline EUA Savings Per Tonne. The increase in savings amounts to 177.50 DKK per tonne of CO₂.

The operator has also submitted a forecast containing a Forecast Total Tax Savings amounting to 48,750,000.00, which is higher than the Baseline Total Tax Savings. The Baseline Tax Savings Per Tonne is 375 DKK calculated on the basis of the Baseline Total Tax Savings of 37,500,000.00 and the Annual Quantity of 100,000 tonnes The Forecast Total Tax Savings is divided by the Annual Forecast Quantity of 100,000 tonnes, which results in a provisional tax savings per tonne of 487.50 DKK. In total, the provisional tax savings per tonne is therefore 112.50 DKK higher than the Baseline Tax Savings Per Tonne.

The sum of 1) the difference between provisional EUA savings per tonne and the Baseline EUA Savings Per Tonne, and 2) the difference between the provisional tax savings per tonne and the Baseline Total Tax Savings Per Tonne is 290.00 DKK and represents the deduction regarding total EUA and CO₂ related tax savings in the calculation of the Subsidy Rate.



The operator has a Forecast Total Carbon Credit Income of 5,000,000.00 DKK and a Baseline Total Carbon Credit Income of 15,000,000.00. The difference between the forecast and the baseline is -10,000,000.00 DKK (i.e. a negative amount). The operator therefore has no excess Carbon Credit income.

In total, the total savings from EUA and CO₂-related taxes has increased and the operator has no excess income generated by Carbon credits compared to the corresponding baseline values. The calculation of the Subsidy Rate shall therefore only be subject to a deduction equal to increase of the total EUA and tax savings. This amounts to 290.00 DKK. As a result, the Subsidy Rate is calculated to be 560.00 DKK.

The calculation can be expressed as follows:

Subsidy Rate = $Offered Rate_t - (\Delta Savings_{EUA} + \Delta Savings_{tax}) - 0.9 \cdot Excess_income_{CarbonCredits}$ $\Delta Savings_{EUA} + \Delta Savings_{tax} = 177.5 + 112.5 = 290 > 0$, so $\& 0.9 \cdot Excess_{income_{CarbonCredits}} = 0.9 \cdot 0 < 0$, so

560 = 850 - (290) - (0)

5. EXAMPLES OF ANNUAL SETTLEMENT CALCULATIONS

5.1 Example 5.1 Calculation of Actual Subsidy Rate and Actual Subsidy

This example 5.1 illustrates a scenario where the DEA will calculate an Actual Subsidy Rate in accordance with step 2 (clause 12.3) in Appendix 5, Subsidy and economy scheme, since at least one of circumstances stated in clause 12.2.1, occur in the given year.

The example also illustrates the calculation of the Actual Subsidy and a claim regarding repayment of excess subsidy in accordance with step 3 (clause 12.4) in Appendix 5, Subsidy and economy scheme.

The example illustrates a scenario where the following apply:

- Actual Fossil EUA Fraction exceeds the Baseline Fossil EUA Fraction;
- Actual Total Tax Savings exceed the Baseline Total Tax Savings;
- Actual Total Carbon Credit Income exceeds the Baseline Total Carbon Credit Income;



- No inclusion of Biogenic/Atmospheric CO₂ in ETS;
- The Offered Rate is 850.00 DKK; and
- The Verified Delivered Quantity is equal to the Annual Quantity

Variables & parameters		Baseline values	Actual Values	
Baseline Fossil EUA Fraction	-	50%		-
Baseline EUA Value		750.00		_
Baseline EUA Savings Per Tonne		375.00		-
Actual Fossil EUA Fraction			70%	
Invoiced Quantity Q1			20,000	
Invoiced Quantity Q2			30,000	
Invoiced Quantity Q3			30,000	
Invoiced Quantity Q4			20,000	
Sum of Invoiced Quantities for the given year			100,000	
Proportional value of the Invoiced Quantity for Q1			20%	_
Proportional value of the Invoiced Quantity for Q2			30%	
Proportional value of the Invoiced Quantity for Q3			30%	
Proportional value of the Invoiced Quantity for Q4			20%	
Market value of EUA for Q1			840.00	
Market value of EUA for Q2			845.00	
Market value of EUA for Q3			855.00	
Market value of EUA for Q4			860.00	
Weighted market value of EUA			850.00	
(Proportional value of the Invoiced Quantity for Q1 · Market value of EUA for Q1) + (" for Q2 · " for Q2) + (" for Q3 · " for Q3) + (" for Q4 · " for Q4)				
Actual EUA savings per tonne			595.00	
Actual Fossil EUA Fraction · Weighted market value of EUA				



Difference between actual EUA savings per tonne & Baseline EUA		220.00	
Savings Per Tonne ("subtotal one")			
Baseline Total Tax Savings	37 500 000 00		
	01,000,000.00		
Annual Quantity	100,000		
Baseline Tax Savings Per Tonne	375.00		
Actual Total Tax Savings		50,000,000.00	
Verified Delivered Quantity		100.000	
		100,000	
Actual tax savings per tonne		500.00	
Difference between actual tax savings per tonne & Baseline Tax		125.00	
Savings Per Tonne ("subtotal two")			
Subsidy Data deduction reporting total EUA and CO, related toy		245.00	-
Subsidy Rate deduction regarding total EUA and CO ₂ -related tax		345.00	
Savings (Subiolai one + Subiolai two)			
Baseline Total Carbon Credit Income	15,000,000.00		
Actual Total Carbon Credit Income		20,000,000.00	
Verified Delivered Quantity		100,000	
Actual excess Carbon Credit income per tonne		50.00	
Subsidy Rate deduction of 90% of excess Carbon Credit income per		45.00	
tonne ("subtotal three")			
Subsidy Rate deduction ("subtotal one" + "subtotal two") + "subtotal		390.00	
three"			
Offered Rate		850.00	
Actual Subsidy Rate		460.00	
Invoiced amount Q1		10,300,000.00	
Invoiced amount Q2		15,450,000.00	
Invoiced amount Q3		15,450,000.00	
Invoiced amount Q4		10.300.000.00	
		-,	



Total invoiced Subsidy		51,500,000.00	
Actual Subsidy		46,000,000.00	
Excess subsidy subject to repayment to the DEA		5,500,000.00	

In example 5.1, the operator stores both Fossil and Biogenic CO_2 and has a Baseline Carbon Credit Income. The Actual Subsidy Rate is subject to two possible deductions; 1) the sum of the EUA savings and savings of CO_2 -related taxes and 2) 90% of the excess income from Carbon Credits.

The weighted market value of EUA is calculated to be 850.00 DKK based on the Invoiced Quantities in tonnes (Q1 = 20,000, Q2 = 30,000, Q3 = 30,000, Q4 = 20,000) and their respective proportional value (Q1 = 20%, Q2 = 30%, Q3 = 30%, Q4 = 20%) of the sum of quantities (100,000 tonnes) and the corresponding market value of EUA for each quarter (Q1 = 840.00, Q2 = 845.00, Q3 = 855.00, Q4 = 860.00) in DKK. The weighted market value of EUA is 100.00 DKK higher than the Baseline EUA Value.

The operator has furthermore submitted an annual report containing an Actual Fossil EUA Fraction that is 20 percentage points higher compared to the Baseline Fossil EUA Fraction.

Both of these factors lead to increased actual EUA savings per tonne compared to the operator's Baseline EUA Savings Per Tonne. The increase of savings amounts to 220.00 DKK per tonne of CO₂.

The operator has also submitted an annual report containing an Actual Total Tax Savings amounting to 50,000,000.00 DKK, which is higher than the Baseline Total Tax Savings. The Baseline Tax Savings Per Tonne is 375 DKK calculated on the basis of the Baseline Total Tax Savings of 37,500,000.00 and the Annual Quantity of 100,000 tonnes The Actual Total Tax Savings is divided by the Verified Delivered Quantity of 100,000 tonnes, which results in actual tax savings per tonne of 500.00 DKK. In total, the actual tax savings per tonne is therefore 125.00 DKK higher than the Baseline Tax Savings Per Tonne.

The sum of 1) the difference between actual EUA savings per tonne and Baseline EUA Savings Per Tonne and 2) Difference between actual tax savings per tonne & Baseline Tax Savings Per Tonne is 345.00 DKK and represents a deduction regarding total EUA and CO_2 related tax savings in the calculation of the Actual Subsidy Rate.

The operator has specified a Baseline Total Carbon Credit Income of 15,000,000.00 DKK. The operator has submitted an Actual Total Carbon Credit Income of 20,000,000.00 DKK. The difference between the actual value and the baseline is 5,000,000.00 DKK.



The actual excess Carbon Credits income per tonne is this difference (5,000,000.00 DKK) divided by the Verified Delivered Quantity (100,000 tonnes). This amount equals 50.00 DKK. A deduction of 90% of this excess income, equal to 45.00 DKK, will apply in the calculation of the Actual Subsidy Rate.

As this means that both the actual total savings from EUA and CO₂-related taxes as well as excess income generated by Carbon Credits are higher compared to the offer, the calculation of the Actual Subsidy Rate shall be subject to a deduction equal to the sum of the increase of total EUA and tax savings (i.e. 345 DKK) and a deduction equal to 90 % of the excess Carbon Credit income (i.e. 45 DKK). The Actual Subsidy Rate will therefore be 390.00 DKK less than the Offered Rate of 850.00 DKK. As a result, the Actual Subsidy Rate is calculated to be 460.00 DKK.

The operator's total invoiced Subsidy equals 51,500,000.00 DKK based on the Invoiced Amounts in each quarter.

The operator's Actual Subsidy is calculated to be 46,000,000.00 DKK as a result of multiplying the Verified Delivered Quantity of 100,000 tonnes with the Actual Subsidy Rate of 460.00 DKK.

To determine whether the operator has received excess subsidy, the Actual Subsidy is subtracted from the total invoiced Subsidy. This difference amounts to 5,500,000.00 DKK which is the total amount of excess subsidy that has been paid to the operator for the given year and that must be repaid to the DEA.

5.2 Example 5.2 Calculation of Actual Subsidy with no calculation of Actual Subsidy rate

This example 5.2 illustrates a scenario where the DEA will not calculate an Actual Subsidy Rate in accordance with step 3 in Appendix 5, Subsidy and economy scheme, since none of the circumstances stated in clause 11.3, are met in a given year.

The following example 5.2 illustrates a scenario where the following are true:

- The Actual Fossil EUA does not exceed the Baseline Fossil EUA Fraction;
- The Actual Total Tax Savings does not exceed the Baseline Total Tax Savings;
- The Actual Total Carbon Credit Income does not exceed the Baseline Total Carbon Credit Income;
- No inclusion of Biogenic/Atmospheric CO₂ in ETS;



- The inflation-adjusted Offered Rate is 850.00 DKK; and
- The Verified Delivered Quantity is equal to the Annual Quantity

Variables & parameters		Baseline values	Actual Values	
Baseline Fossil EUA Fraction	-	50%		-
Baseline EUA Value		750.00		
Baseline EUA Savings Per Tonne		375.00		-
Actual Fossil EUA Fraction			45%	
Market value of EUA			800.00	
Actual EUA savings per tonne			360.00	-
Difference between actual EUA savings per tonne & Baseline EUA			-15.00	
Savings Per Tonne ("subtotal one")				
Baseline Total Tax Savings		37,500,000.00		
Annual Quantity		100,000		-
Baseline Tax Savings Per Tonne		375.00		
Actual Total Tax Savings			35,000,000.00	
Verified Delivered Quantity			100,000	
Actual tax savings per tonne			350.00	
Difference between actual tax savings per tonne & Baseline Tax			-25.00	
Savings Per Tonne ("subtotal two")				
Subsidy Rate deduction of total EUA and CO2-related taxes			-40.00	1
("subtotal one" + "subtotal two")				
Baseline Total Carbon Credit Income		15,000,000.00		
Actual Total Carbon Credit Income			15,000,000.00	
Verified Delivered Quantity			100,000	
Actual excess Carbon Credit income per tonne			0.00	
Subsidy Rate deduction of 90% of excess Carbon Credit income per			0.00	1
tonne ("subtotal three")				



Image: Subsidy Rate deduction ("subtotal one" + "subtotal two") + "subtotal three"-40.00Offered Rate850.00850.00Actual Subsidy Rate850.00850.00860.00Subsidy Rate Q1860.00Subsidy Rate Q2860.00Subsidy Rate Q3840.00Subsidy Rate Q4840.00Invoiced Quantity Q120,000Invoiced Quantity Q230,000Invoiced Quantity Q3100,000Invoiced Quantities100,000Invoiced amount Q117,200,000.00Invoiced amount Q225,800,000.00Invoiced amount Q485,000,000Sum of Invoiced subsidy85,000,000.00Invoiced subsidy Rate85,000,000.00Invoiced subsidy85,000,000.00Invoiced subsidy85,000,000.00Invoiced subsidy85,000,000.00Invoiced subsidy85,000,000.00Keighted Subsidy Rate850.00Actual Subsidy0.00		
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Weighted Subsidy Rate 850.00 Actual Subsidy 85,000,000.00 Excess subsidy subject to repayment to the DEA 0.00	Sum of Invoiced subsidy	85,000,000.00
Actual Subsidy 85,000,000.00 Excess subsidy subject to repayment to the DEA 0.00	Weighted Subsidy Rate	850.00
Excess subsidy subject to repayment to the DEA 0.00	Actual Subsidy	85,000,000.00
	Excess subsidy subject to repayment to the DEA	0.00

In example 5.2, the operator has an Actual Fossil EUA Fraction that is 5 percentage points less than the Baseline Fossil EUA Fraction. The market value of EUA is 50.00 DKK higher than the Baseline EUA value. Despite the increased value of EUA, the savings of EUA has decreased by 15.00 DKK per tonne due to the lower Fossil EUS Fraction.



The operator has Actual Total Tax Savings of 35,000,000.00 DKK, which divided with the Verified Delivered Quantity of 100,000 tonnes is equal to 350.00 DKK per tonne. The difference between the actual tax savings per tonne and the Baseline Tax Savings Per Tonne equals -25.00 DKK, which is the decrease of savings of taxes.

Adding these two sums together amounts to a decrease of total EUA and CO₂-related taxes savings of -40.00.

The Actual Total Carbon Credit Income is equal to the Baseline Total Carbon Credit Income with both being 15,000,000.00 DKK. Since the values are equal, there is no excess income from Carbon Credits.

To determine whether the operator has received excess subsidy, the DEA shall calculate a weighted Subsidy Rate. This is done by dividing the total invoiced subsidy amount for the given year by the total Invoiced Quantities for the same year. The total invoiced subsidy for each quarter is calculated by multiplying the Invoiced Quantity for that quarter by the applicable Subsidy Rate. In this example, the Invoiced Quantities are: Q1 = 20,000, Q2 = 30,000, Q3 = 30,000, and Q4 = 20,000. The Subsidy Rate is 860.00 DKK per tonne for Q1 and Q2, and 840.00 DKK per tonne for Q3 and Q4. This results in a total subsidy amount of 85,000,000 DKK. The total Invoiced Quantity is 100,000 tonnes. Accordingly, the weighted Subsidy Rate is calculated to be 850.00 DKK per tonne.

The Actual Subsidy is calculated by multiplying the weighted Subsidy Rate of 850.00 DKK with the Verified Delivered Quantity which in this example is 100,000 tonnes. The Actual Subsidy is calculated to be 85,000,000.00 DKK.

As the Actual Subsidy is equal to the sum of the Invoiced Subsidy, the operator has not received an excess amount of subsidy, and no Subsidy shall therefore be subject to a repayment to the DEA.