6.3.9.3 Net Cash Benefit of AFR [RC]

Description

Extended net cash benefit of alternative fuels and raw materials (ENCB AFR) corresponds to the total of AFR related cash revenues (costs) and the actual costs to transport, prepare, handle and process AFR, regardless the effective consumption of AFR in the production process; Kiln system, Power Generation (Captive Power Plants – CPP) and Drying (Hot Gas Generators – HGG) of materials used in the production process are included.

Reference to Process

This indicator refers to:

- Main cost centers 'Raw material preparation', 'Raw meal preparation', 'Clinker production' and 'Cement grinding/blending'
- Pre-process cost centers 'Traditional fuels preparation and handling', 'Alternative fuels preparation and handling' and 'Alternative raw materials preparation and handling' and 'Power generation' at cement plant and 'Alternative fuels preparation and handling' and 'Alternative raw materials preparation and handling' at AFR Unit,
- Drying activities (Hot Gas Generators HGG) of materials at cement plant
- Main cost center 'Corporate Manufacturing AFR'
- Main cost center 'Marketing and Sales AFR' (limited to the type of cost 'Write-Offs and Allowances for Bad and Doubtful Debts'
- Main cost centers of 'Administration AFR'
- Product sub-segment Clinker and Cement

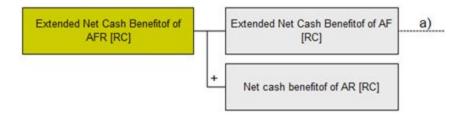
Purpose

To measure the benefit from accepting alternative fuels and alternative raw materials for co-processing. This is a component of <u>EGAV</u>.

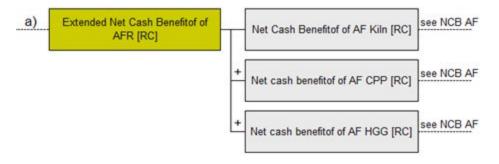
Calculation

The indicator and its major components are calculated and reported at Group Reporting Unit (GRU) level.

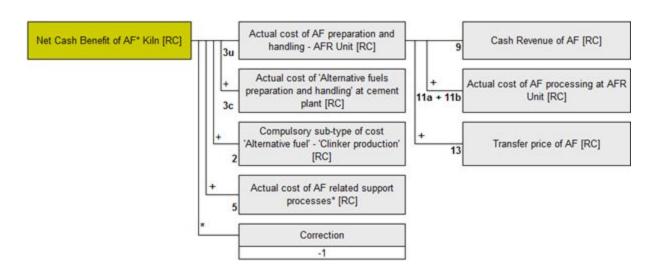
Extended net cash benefit of AFR (ENCB AFR)



Extended net cash benefit of AF (ENCB AF)



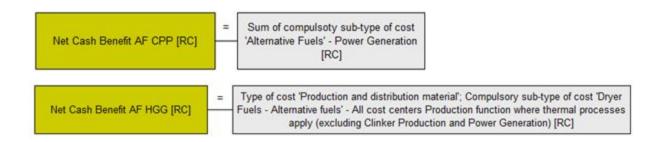
Net cash benefit AF kiln (NCB AF kiln)



NOTE: the components NCB AF CPP and NCB AF HGG rely on certain assumptions and interpretations (especially in the case of 100 % substitution or missing the TF). Care should therefore be taken when analyzing the results of this indicator and comparisons against other companies is difficult.

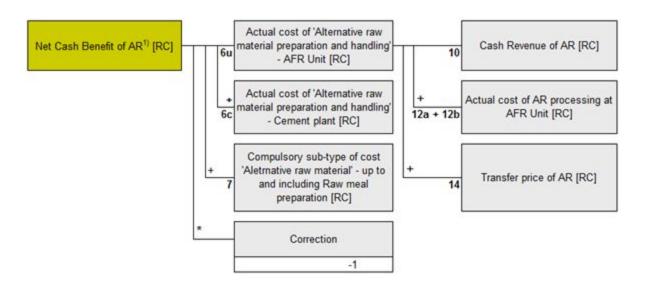
Net cash benefit AF CPP / HGG (NCB AF CPP / HGG)

At cement plants with usage of AF in the kiln, for simplicity and considering that the preparation and handling costs of AF are already captured in 'NCB AF kiln', the following can be applied:



In the seldom case where there is no kiln operated in a plant or no AF consumed in the kiln, but only running CPP and/ or HGG, the indicator includes all costs with the preparation and feeding the AF, respectively all AF Support Process costs.

Net cash benefit of AR (NCB AR)



¹⁾ Net cash benefit of AR is also known as Actual Revenue of AR

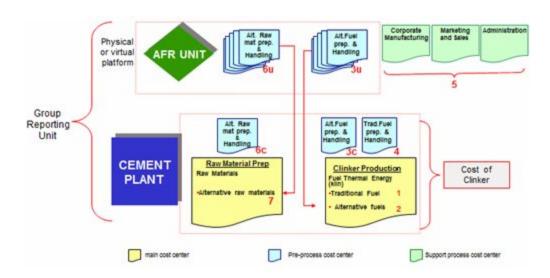
Where the split between AF and AR support processes are not available in the cost center structure, all support process costs are recorded as AF.

The cost of transportation can be included either in the AFR Unit or at the Cement plant 'Preparation and handling AR/AF/correctives' pre-process cost centers.

Comments and examples

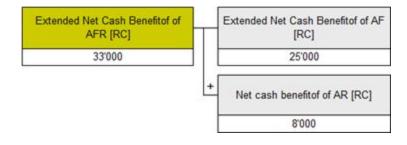
At GRU's where in CPP's / HGG's (if any) there is no AF in use, the Extended NCB AF equals to NCB kiln.

Overview of the components

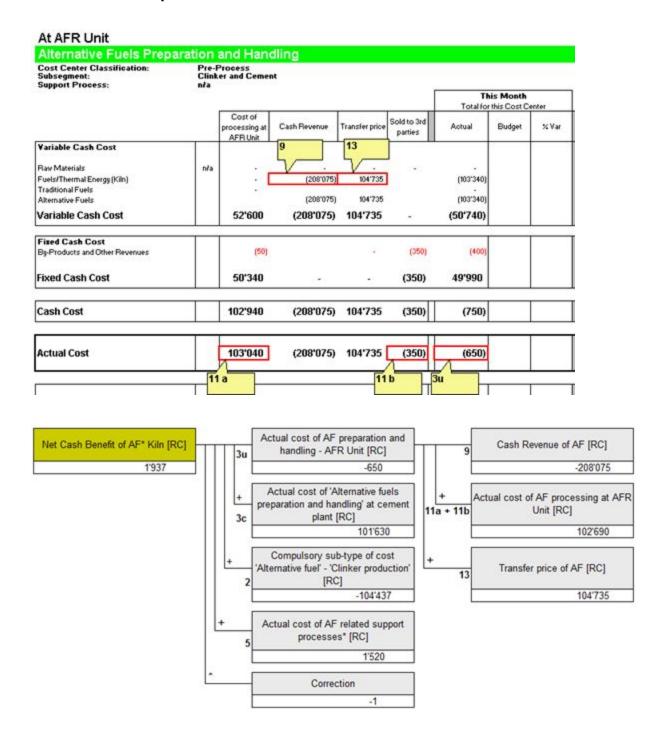


	At AFR Unit/s		At Cement Plant(s)						AFR Support Processes			Company Level	
Types of cost	Pre-process cost center "Abernative Raw Materials preparation and handling"	Pre-process cost cerses "Abernative Fuels preparation and handling"	Pre-process cost cerner "Abernative Raw Materials preparation and handling"	Rav Material Preparation	Rav Meal Preparation	Pre-process cost ceree Traditional Fuels preparation and handling*	Pre-process cost ceree "Alternative Fuels preparation and handling"	Ciniver Production	Clinker and Cement Corp Manufacturing of which AFR	Clinker and Cement Administration of which AFR	Clinker and Cement Marketing and Sales of which AFR	Cost of Fuels	Specific Cost of Fuels
Variable cash costs	(2,863)	(50,740)	3,895	(3,001)	500	56,500	52,600	52,219	275	125		109,510	2.6
Electrical energy fixed Maintenance material Labor expenses own Labor expenses subcontracted fixed Labor expenses maintenance own	500 800 1,250 25 55	30,000 4,590 10,500 300 1,000	1,200 2,800 600 25 55			30,000 4,000 10,000 300 1,000	30,000 4,000 10,000 300 1,000		250 25	250 50		91,700 16,190 32,850 1,025 3,110	0.0 2.1 0.3 0.7 0.0 0.0
Labor expenses maintenance subcontracte Other personnel expenses Third party services Third party services maintenance	120 160 50	300 900 1,400 400	40 50 110 50			300 900 1,400 400	300 900 1,400 400		100	100 150		3,070 4,720 1,300	0.0
Other cost center expenses By-products and other revenues	200 (150)	1,000	(100)			1,000	1,000		50	50		3,400	-0.0
Fixed actual costs	3,050	49,990	4,930	-	-	48,900	48,900	-	515	590	-	156,875	3.7
Cash Costs	187	(750)	8,825	(3,001)	500	105,400	101,500	52,219	790	715	-	266,385	6.34
Other Provisions and Write-Offs	6u 3	3u 00	6c 55			4 100	3c 00		5 0	5	5	1,273	0.0
Actual Costs	390	(650)	9,580	(3,001)	500	105,500	101,600	52,219	800	720	-	267,658	6.3
Depreciation and amortization of long-term a	280	4,000	1,000			4,000	4,000	*	20	10		13,310	0.3
Total	670	3,350	10,580	(3,001)	500	109,500	105,600	52,219	820	730	-	280,968	6.63

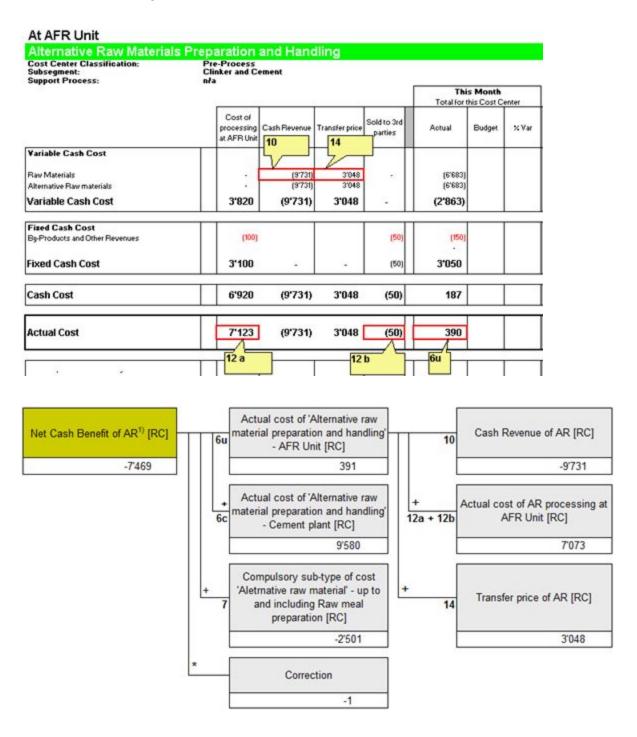
Calculation example of Extended net cash benefit of AFR



Calculation example of Extended Net Cash Benefit of AF:



Calculation example of Net cash benefit of AR:



¹⁾ Net Cash Benefit of AR is also known as Actual Revenue of AR

A positive value of NCB indicates a gate fee whereas a negative value indicates a net cost to source and prepare the AR. This cost should be compared to the cost of the equivalent traditional raw material to measure the value added.

Note that usage of alternative fuels and raw materials (AFR) may generate hidden costs by increased thermal energy consumption, additional maintenance costs and/or losses in clinker production rate. These hidden costs are not included in the calculation of these indicators.

Reporting Requirements

The indicators are reported in SAP FC.