



Impact assessment NTA 8003 conversion

Date 2019-04-01

Explanation Rationale for amending NTA 8080-1:2015, Annex D due to NTA 8003:2017 superseding NTA 8003:2008

From 1 January 2019, NTA 8003:2017, *Classification of biomass for energy recovery* has superseded NTA 8003:2008 for the purposes of guarantees of origin in the Vertogas system and financial support in the framework of the subsidy renewable energy regulation (SDE+). NTA 8003:2008 is normatively referenced in NTA 8080-1:2015 to specify the categories of biomass that may be considered a residual flow in the framework of Better Biomass certification. NTA 8003:2017 has introduced several new categories whilst other categories have been removed or amended, responding to market developments.

This document summarizes the changes affecting Annex D in NTA 8080-1:2015. Because NTA 8003:2017 has superseded NTA 8003:2008, Annex D in NTA 8080-1:2015 has been amended by referring to the categories as included in NTA 8003:2017. This has been introduced in the Interpretation document N° 4. This impact assessment has also been discussed during a stakeholders meeting with Better Biomass certificate holders using the Vertogas system, that was organised on 22 February 2019.

NTA 8003:2008	NTA 8003:2017	Impact / Resolution
[119] other fresh wood	[114] roundwood (residual flows from nature and landscape management) [117] stubs (residual flows from nature and landscape management) [118] stumps (residual flows from nature and landscape management) [119] other fresh wood (left-overs) (co-products industry) [127] branches and tops hardwood [128] stumps hardwood [129] thinnings hardwood [136] branches and tops softwood [137] stumps softwood [138] thinnings softwood	In NTA 8080-1 distinction is made between primary and non-primary residual flows. For this reason, category [119] has been split by providing an additional demarcation. The newly introduced (or redefined) categories [114], [117]-[119], [127]-[129] and [136]-[138] are treated in a similar way, where [127]-[129] and [136]-[138] relate to primary residual flows and [114] and [117]-[119] to non-primary residual flows. With subdivision of [113], this category has been removed.
[190] wood from processing: [191] mixture of wood from processing [192] wood from	190] wood from processing: [191] mixture of wood from processing [192] wood released	In NTA 8080-1 reference to category [190] is leading by providing an explanatory note with listing all subcategories. Charcoal [new 195] is not considered a residual flow, so the other subcategories are listed as separate entries. In

Impact assessment NTA 8003 conversion

NTA 8003:2008	NTA 8003:2017	Impact / Resolution
<p>composting</p> <p>[193] wood from fermentation</p> <p>[194] wood that has been in the water for a long time</p> <p>[199] other wood from processing</p>	<p>from processing of kitchen and garden waste</p> <p>[193] wood (compost overflow)</p> <p>[195] charcoal</p> <p>[199] other wood from processing</p>	<p>addition, wood that has been in the water for a long time [194] has been removed, but can be considered other wood from processing [199].</p>
<p>[230] residual products (shells)</p> <p>[231] mixture of shells</p> <p>[232] cocoa shells</p> <p>[233] peanut shells</p> <p>[234] nuts including walnuts</p> <p>[235] almond shells</p> <p>[236] rice husks</p> <p>[239] other shells</p>	<p>[230] residual products (shells)</p> <p>[231] mixture of shells</p> <p>[232] cocoa shells</p> <p>[233] peanut shells</p> <p>[234] nuts including walnuts</p> <p>[235] almond shells</p> <p>[236] rice husks</p> <p>[237] palm kernel shells</p> <p>[239] other shells</p>	<p>In NTA 8080-1 reference to category [230] is leading by providing an explanatory note with listing the subcategories. The additional specification of palm kernel shells [237] has no impact.</p>
<p>[255] agricultural waste</p>	<p>[255] arable farming waste</p>	<p>Description has changed</p>
	<p>[256] champost</p>	<p>Newly introduced classification. In NTA 8080-1 all subcategories to remaining residual products (from agriculture) [250] are listed either as primary or as non-primary residual flows. This newly introduced classification has also been added to primary residual flows.</p>
	<p>[258] mixture of other residual products</p>	<p>Newly introduced classification. In NTA 8080-1 all subcategories to remaining residual products (from agriculture) [250] are listed either as primary or as non-primary residual flows. This newly introduced classification has also been added with a demarcation between primary and non-primary residual flows.</p>
	<p>[259] other residual products</p>	<p>Newly introduced classification. In NTA 8080-1 all subcategories to remaining residual products (from agriculture) [250] are listed either as primary or as non-primary residual flows. This newly introduced classification has also been added with a demarcation between primary and non-primary residual flows.</p>
<p>[300] manure</p> <p>[301] mixture of manure</p> <p>[309] other types of manure</p> <p>[310] poultry manure</p> <p>[320] cow manure</p> <p>[330] pig manure</p>	<p>[300] manure</p> <p>[311] mixture of manure</p> <p>[312] poultry manure</p> <p>[313] cow manure</p> <p>[314] pig manure</p> <p>[315] horse manure</p>	<p>In NTA 8080-1 reference to category [300] is leading by providing an explanatory note with listing the subcategories. Classification numbers of the subcategories have been changed, but the descriptions are the same.</p>

NTA 8003:2008	NTA 8003:2017	Impact / Resolution
<p>[340] horse manure</p> <p>[351] processed manure from manure fermentation (digestate)</p> <p>[352] processed manure from co-fermentation with manure (digestate)</p> <p>[359] processed manure from other processing</p>	<p>[319] other types of manure</p> <p>[321] processed manure from manure fermentation (digestate)</p> <p>[322] processed manure from co-fermentation with manure (digestate)</p> <p>[329] processed manure from other processing</p>	
<p>[400] sludge</p> <p>[401] mixture of sludge</p> <p>[409] other sludge (including industrial sludge)</p> <p>[410] sludge from sewage/waste water treatment plants</p> <p>[420] sludge from sewers, cesspits and pumping stations</p> <p>[430] sludge from preparation of drinking water</p> <p>[440] paper sludge</p>	<p>[400] sludge</p> <p>[401] mixture of sludge</p> <p>[409] other sludge</p> <p>[410] sludge from sewage/waste water treatment plants</p> <p>[420] sludge from sewers, cesspits and pumping stations</p> <p>[430] sludge from preparation of drinking water</p> <p>[440] industrial sludge</p> <p>[441] mixture of industrial sludge</p> <p>[442] paper sludge from paper and cardboard industry</p> <p>[443] water treatment sludge (food and non-food processing industry)</p> <p>[444] production sludge</p> <p>[445] omega screens</p> <p>[446] fat drainage and flotation sludge</p> <p>[449] other industrial sludge</p>	<p>In NTA 8080-1 reference to category [400] is leading by providing an explanatory note with listing the subcategories. The subcategory [440] has been amended by including sludge from other industrial processes (initially covered with [409]) than the paper industry. This newly added specification of the [440] series has no impact.</p>
	<p>[510] residual products from biodiesel / ethanol industry</p> <p>[515] bleaching clay from biodiesel / ethanol industry</p> <p>[517] biodiesel pitch</p>	<p>Newly introduced classification with additional subcategories; only newly added subcategories are shown. It has been concluded that additional subcategories can be considered non-primary residual flows as well.</p>
<p>[529] other shells / husks / kernels (as far as originating</p>	<p>[525] palm kernel shells</p>	<p>Newly introduced classification that has replaced the category [529] with demarcation</p>

Impact assessment NTA 8003 conversion

NTA 8003:2008	NTA 8003:2017	Impact / Resolution
from palm oil industry)		
	<p>[540] residual products from oleochemical industry</p> <p>[541] mixture of residual products from oleochemical industry</p> <p>[542] bleaching clay from oleochemical industry</p> <p>[543] distillation residues</p> <p>[544] activated carbon from biomass</p> <p>[545] animal oils and fats after hydrogenation</p> <p>[549] other residual products from oleochemical industry</p>	Newly introduced classification including subcategories. It has been concluded that at least the subcategories [542] and [543] can be considered non-primary residual flows. Other subcategories might qualify, subject to the assessment by the certification body based on evidence.
	[579] other used fats and oils	Newly introduced classification It has been concluded that this subcategory cannot be considered non-primary residual flows by default and is therefore subject to the assessment by the certification body based on evidence.
	[581] mixture of residual products from food processing industry	Newly introduced classification. It has been concluded that this subcategory can be considered non-primary residual flow (e.g. supermarket mix).
[581] soft drinks and light alcoholic spirits unsuitable for human consumption	[582] soft drinks and light alcoholic spirits unsuitable for human consumption	Classification number has changed.
[582] dairy products unsuitable for human consumption	[583] dairy products and foodstuffs unsuitable for human consumption	Classification broadened with foodstuffs (old [583]) and number has changed.
[583] foodstuffs unsuitable for human consumption (passed expiring date)		No longer as separate category; merged with new [583].
	[588] bleaching clay from food processing industry	Newly introduced classification. It has been concluded that this subcategory can be considered non-primary residual flow.
[592] glycerine – glycol (biodiesel production)	[512] glycerine – glycol	Classification number has changed
[594] black liquor	[514] black liquor	Classification number has changed. Comment has been removed, as black liquor is now linked to residues biodiesel/ethanol industry
	<p>[590] residual products from other industries</p> <p>[591] mixture other residual products</p> <p>[592] bleaching clay from other industries</p>	Amended classification, by moving residual products from biodiesel / ethanol industry to a separate category [new 510 series], with newly introduced subcategories. It has been concluded that at least the subcategories [592] can be considered non-primary residual flow. Other subcategories might qualify, subject to

NTA 8003:2008	NTA 8003:2017	Impact / Resolution
	<p>[593] biochar</p> <p>[594] liquid residual flows from paper industry including lignin</p> <p>[595] residual products from biorefinery</p> <p>[599] other residual products from other industries</p>	<p>the assessment by the certification body based on evidence.</p>
<p>[600] organic waste from households and companies</p> <p>[610] organic waste from households</p> <p>[620] organic waste from companies (trading, services, other)</p>	<p>[600] organic waste from households and companies</p> <p>[610] organic waste from households</p> <p>[620] organic waste from companies</p> <p>[621] swill</p> <p>[622] biodegradable mono-products</p> <p>[629] other organic waste from companies</p> <p>[630] organic wet fraction</p>	<p>In NTA 8080-1 reference to category [600] is leading by providing an explanatory note with listing the subcategories. The additional specification of organic waste from companies [621], [622] and [629] and the newly introduced category [630] have no impact.</p>
<p>[801] mixture of combined flows (as far as this concerns organic wet fraction that is released when sorting industrial waste, domestic waste, etc. and is considered a combined waste)</p>	<p>[801] mixture of biomass refined to fuel</p>	<p>It has been concluded that the new description of this category cannot be considered non-primary residual flow. Demarcation is now covered with new [630].</p>