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10. Background data

Table 15: Biofuels in TJ raw materials*

Kraftstoffart/ Quotenjahr	Bioethanol Abbildung 22, S. 49			Bio-LNG		Biomethan Abbildung 27, S. 54			Biomethanol		FAME Abbildung 24, S. 51			HVO Abbildung 26, S. 53			CP-HVO Abbildung 26, S. 53		Pflanzenöl Abbildung 28, S. 55			
	2019	2020	2021	2020	2021	2019	2020	2021	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2019	2020	2021	
Ausgangsstoff																						
Athiopischer Senf											98	73	51									
Futtermübe							2	1														
Gerste	424	1.034	977																			
Getreide - Ganzpflanze							10	45														
Gras / Ackergras							10	14														
Mais	19.623	17.367	14.721					610														
Palmöl											22.523	22.216	28.520	1.812	34.665	13.066	65	1.400	19	28	8	
Raps											29.600	28.274	22.084					10	18	26	30	
Roggen	1.148	2.111	4.077							26												
Silomais/Ganzpflanze						491	643															
Soja											1.215	1.994	4.612									
Sonnenblumen											3.073	3.897	629					694				
Triticale	1.493	1.301	1.401																			
Weizen	5.394	3.562	3.890																			
Zuckerrohr	1.426	2.062	2.967																			
Zuckerrüben	603	429	877				27	32														
Gesamt	30.808	29.528	30.656	1**	62	1.227	2.577	3.477	10	< 1	89.646	89.429	84.776	1.836	43.893	19.725	65	2.106	37	54	38	

* Differences in the totals are due to roundings

** subsequently corrected value

Table 16: Biofuels in kt raw materials*

Kraftstoffart/ Quotenjahr	Bioethanol			Bio-LNG		Biomethan			Biomethanol		FAME			HVO			CP-HVO		Pflanzenöl		
	2019	2020	2021	2020	2021	2019	2020	2021	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2019	2020	2021
Ausgangsstoff																					
Abfall/Reststoff	26	63	66	<1	1	15	38	55	<1	<1	887	882	772	1	212	153		<1			
Äthiopischer Senf											3	2	1								
Futtermübe							<1	<1													
Gerste	16	39	37																		
Getreide - Ganzpflanze							<1	1													
Gras / Ackergras							<1	<1													
Mais	741	656	556					12													
Palmöl											603	594	763	42	795	300	1	32	1	<1	<1
Raps											792	757	591					<1	<1	<1	1
Roggen	43	80	154					1													
Silomais/Ganzpflanze						10	13														
Soja											32	53	123								
Sonnenblumen											82	104	17					16			
Triticale	56	49	53																		
Weizen	204	135	147																		
Zuckerrohr	54	78	112																		
Zuckerrüben	23	16	33				1	1													
Gesamt	1.164	1.116	1.158	<1	1	25	52	70	<1	<1	2.399	2.393	2.267	42	1.007	453	1	48	1	1	1

* Differences in the totals are due to roundings

Table 17: Biofuels in TJ raw materials and their source*

Region/ Quoten- jahr	Afrika Abbildung 12, S. 39			Asien Abbildung 13, S. 40			Australien Abbildung 14, S. 41			Europa Abbildung 15, S. 42			Mittelamerika Abbildung 17, S. 44			Nordamerika Abbildung 18, S. 45			Südamerika Abbildung 19, S. 46		
	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Ausgangsstoff																					
Abfälle und Reststoffe	174	648	644	13.122	17.842	15.428	18	14	30	19.924	24.812**	22.271	11	15	28	969	1.681	777	379	749	924
Brassica carinata																9	27	1	89	46	50
Futterrübe											2	1									
Gerste										424	1.034	977									
Getreide - Ganz- pflanze											10	45									
Gras / Ackergras											10	14									
Mais										19.607	17.364	15.200				15	<1	54		2	76
Palmöl				21.409	52.975	38.936							2.970	4.842	2.571				39	492	87
Raps				71	110	11	5.014	4.214	3.115	24.533	22.160	17.255					1.827	1.604			129
Roggen										1.148	2.111	4.103									
Silomais/Ganzpflanze										491	643										
Soja										27	70	299		2					1.188	1.922	4.313
Sonnenblumen								2		3.073	4.589	629						<1			
Triticale										1.493	1.301	1.401									
Weizen										5.394	3.562	3.890									
Zuckerrohr													350	688	539				1.076	1.375	2.428
Zuckerrüben										603	456	908									
Gesamt	174	648	644	34.603	70.927	54.376	5.031	4.229	3.144	76.716	78.126**	66.992	3.331	5.547	3.138	993	3.535	2.436	2.771	4.586	8.007

* Differences in the totals are due to roundings

** subsequently corrected value

Table 18: Biofuels in kt raw materials and their source *

ten- jahr	Region/ Quo- jahr			Afrika			Asien			Australien			Europa			Mittelamerika			Nordamerika			Südamerika		
	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Ausgangsstoff																								
Abfälle und Reststoffe	5	17	17	351	451	393	<1	<1	1	536	665	590	<1	<1	1	26	41	20	10	20	25			
Brassica carinata																<1	1	<1	2	1	1			
Futterrübe											<1	<1												
Gerste										16	39	37												
Getreide - Ganz- pflanze											<1	1												
Gras / Ackergras											<1	<1												
Mais										741	656	564				1	<1	2		<1	3			
Palmöl				566	1.285	992							79	125	69				1	13	2			
Raps				2	3	<1	134	113	83	656	593	462					49	43						3
Roggen										43	80	155												
Silomais/Ganzpflanze										10	13													
Soja										1	2	8		<1					32	51	115			
Sonnenblumen								<1		82	120	17						<1						
Triticale										56	49	53												
Weizen										204	135	147												
Zuckerrohr													13	26	20				41	52	92			
Zuckerrüben										23	17	34												
Gesamt	5	17	17	919	1.739	1.385	135	113	84	2.368	2.368	2.067	93	152	90	27	91	65	86	137	242			

* Differences in the totals are due to roundings

Table 19: Biofuels by raw material

Raw material	2019 [TJ]	2020 [TJ]	2021 [TJ]	2019 [TJ]	2020 [TJ]	2021 [TJ]
Waste and residues	34,598	45,761**	40,102	928	1,195	1,047
Brassica carinata	98	73	51	3	2	1
Fodder beet		2	1		<1	<1
Barley	424	1,034	977	16	39	37
Cereals - Whole plant		10	45		<1	1
Grass/ arable grass		10	14		<1	<1
Maize	19,623	17,367	15,331	741	656	568
Palm oil	24,418	58,308	41,594	646	1,423	1,063
Rapeseed	29,618	28,310	22,113	793	757	592
Rye	1,148	2,111	4,103	43	80	155
Silage maize/whole plant	491	643		10	13	
Soy	1,215	1,994	4,612	32	53	123
Sunflowers	3,073	4,591	629	82	120	17
Triticale	1,493	1,301	1,401	56	49	53
Wheat	5,394	3,562	3,890	204	135	147
Sugar cane	1,426	2,062	2,967	54	78	112
Sugar beet	603	456	908	23	17	34
Total	123,619	167,597**	138,737	3,632	4,617	3,950

* Differences in the totals are due to roundings

** subsequently corrected value

Table 20: Biofuels whose raw material originates in Germany [TJ] *

Kraftstoffart/ Quotenjahr	Bioethanol Abbildung 23, S. 50			Biomethan			FAME Abbildung 25, S. 52			Pflanzenöl			Gesamt Abbildung 16, S. 43					
Ausgangsstoff																		
Abfälle und Reststoffe	220	303	305	48	736	1.858	2.484		6.275	7.759	7.683	10				7.231	9.920	10.531
Futterrübe						2	1										2	1
Gerste	367	884	856													367	884	856
Getreide - Ganzpflanze						10	44										10	44
Mais	264	109	119				610									264	109	729
Raps								4	13.812	11.396	9.380		18	26	30	13.830	11.426	9.409
Roggen	470	537	1.348				26									470	537	1.374
Soja											2							2
Silomais/Ganzpflanze					491	643										491	643	
Sonnenblumen											< 1							< 1
Triticale	271	145	237													271	145	237
Weizen	392	117	449													392	117	449
Zuckerrüben	468	392	771			27	32									468	419	803
Gesamt																		

* Differences in the totals are due to roundings

