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ANNEXES



11

EBRO FOODS, S.A.

Annex 1

LIST OF SUBSIDIARIES OF THE EBRO GROUP

COMPANY	COUNTRY	BUSINESS AREA
Agromeruan, SARL AU	Morocco	Rice
Arrozeiras Mundiarroz, S.A.	Portugal	Rice
Arotz Foods, S.A.	Spain	Others
Bertagni 1882, S.P.A.	Italy	Pasta
Boost Nutrition, C.V.	Belgium	Rice
Riviana Foods Canada Corporation	Canada	Fresh pasta
Ebro Foods, S.A.	Spain	Parent (Holding)
Ebro Foods Netherland BV (Lassie)	Netherlands	Rice
Ebrofrost Denmark, A/S	Denmark	Rice and pasta
Ebrofrost Germany, GmbH	Germany	Rice and pasta
Ebrofrost UK, Ltd	UK	Rice and pasta
Ebrofrost North America	USA	Rice and pasta
Ebro India, Private Ltd.	India	Rice
Euryza, GmbH	Germany	Rice
Geovita Functional Ingredients, S.R.L.	Italy	Ingredients
Herba Bangkok, S.L.	Thailand	Rice
Herba Cambodia, Co. Ltd	Cambodia	Rice
Herba Ingredients, B.V.	Netherlands and Belgium	Ingredients
Herba Ricemills, S.L.U.	Spain	Rice
Indo European Foods Ltd.	UK	Rice
La Loma Alimentos, S.A.	Argentina	Rice
Lustucru Frais, S.A.S.	France	Fresh pasta
Lustucru Riz, S.A.S.	France	Rice
Mundi Riso, S.R.L.	Italy	Rice
Mundi Riz, S.A.	Morocco	Rice
Neofarms Bio, S.A.	Argentina	Rice
Pastificio Lucio Garofalo, Spa	Italy	Pasta
Riceland Magyarorzag, Kft	Hungary	Rice
Riviana Foods, Inc.	USA	Rice
Roland Monterrat, S.A.S.	France	Fresh food
Santa Rita Harinas, S.L.U.	Spain	Others
S&B Herba Foods, Ltd.	UK	Rice
Tilda, Ltd.	UK	Rice
Transimpex, GmbH	Germany	Rice

LIST OF INDUSTRIAL FACILITIES (PRODUCTION PLANTS AND WAREHOUSES) AND OFFICES OF THE EBRO GROUP

COMPANY	COUNTRY	WORKPLACE	TYPE OF FACILITY
Arotz Food	Spain	Navaleno	Industrial
Arrozeiras Mundiarroz	Portugal	Coruche	Industrial
		Lisboa	Office (lease)
Bertagni 1882	Italy	Arcugnano (Vicenza)	Industrial
		Avio	Industrial
		Avio Arcugnano	Warehouse
Boost Nutrition	Belgium	Merksem	Industrial
Ebro Foods Holding	Spain	Madrid	Office (lease)
		Barcelona	
		Granada	
Ebro Foods Netherland BV (Lassie)	Netherlands	Wormer	Industrial
Ebro India	India	Taraori	Industrial
Ebrofrost Denmark	Denmark	Orbaek	Industrial
Ebrofrost Germany	Germany	Offingen	Industrial
Ebro Frost North America	USA	Ebro Frost NA	Industrial
Ebrofrost Uk	UK	Beckley	Industrial
Euryza	Office (lease)	Hamburgo	Office (lease)
Geovita Functional Ingredients	Italy	Bruno	Industrial
		Nizza Monferrato	Industrial
		Verona	Industrial
		Villanova Monferrato	Industrial
Herba Bangkok	Thailand	Nong Khae	Industrial
Herba Cambodia	Cambodia	Phnom Phen	Industrial
Herba Ingredients	Belgium	Schoten	Industrial (4 plants)
		Beernen	Office (lease)
	Netherlands	Wormer	Industrial
Herba Ricemills	Spain	San Juan de Aznalfarache	Industrial
		Jerez de la Frontera	Industrial
		Coria del Río	Industrial
		Isla Mayor	Industrial
		Silla	Industrial
		Algemesí	Industrial
		L'Aldea	Industrial
		La Rinconada	Industrial
		Los Palacios	Industrial
Indo European Foods Ltd.	UK	Cotemsa, Raza y Ecorub	Warehouse
		Felxtowe	Industrial
La Loma Alimentos	Argentina	Los Charrúas	Industrial
		Chajarí	Industrial
		Los Conquistadores	Industrial
		Buenos Aires	Office (lease)

COMPANY	COUNTRY	WORKPLACE	TYPE OF FACILITY
Lustucru Frais	France	St Genis Laval	Industrial
		Lorette	Industrial
		Communay	Industrial
Mundi Riz	Morocco	Larache	Industrial
Mundi Riso	Italy	Vercelli	Industrial
Neofarm Bio	Argentina	Concordia	Office (lease)
Pastificio Lucio Garofalo	Italy	Gragnano	Office (lease)
Riceland Magyarorzag	Hungary	Budapest	Office (lease)
Riviana Foods Canada	Canada	Delta	Industrial
		Hamilton	Industrial
Riviana Foods USA	USA	Memphis	Industrial
		Carlisle	Industrial
		Brinkley	Industrial
		Hazen	Industrial
		Clearbrook	Industrial
		Freeport	Industrial
		Alvin	Industrial
Roland Monterrat	France	Feillens	Industrial
S&B Herba Foods	UK	Cambridge	Industrial
		Liverpool	Industrial
		Orpington	Office (lease)
Santa Rita Harinas	Spain	Loranca de Tajuña	Industrial
Tilda	UK	Classic	Industrial
		Jazz	Industrial
	India	India	Office (lease)
	UAE	Dubai	Office (lease)
Transimpex	Germany	Lambsheim	Industrial
			Office (owned)

EBRO FOODS, S.A.

Annex 2

LIST OF FOOD SAFETY AND QUALITY CERTIFICATIONS OF THE GROUP'S SUBSIDIARIES

COMPANY	COUNTRY	WORKPLACE	CERTIFICATION
Arotz Food	Spain	Navaleno	IFS
Arrozeiras Mundiarroz	Portugal	Coruche	ISO 9001 IFS
Bertagni 1882	Italy	Avio	BRC MSC ASC ORGANIC CERTIFICATION IFS
		Argunagno	ORGANIC CERTIFICATION BRC IFS
Boost Nutrition	Belgium	Merksem	IFS KOSHER FEED CHAIN ALLIANCE (FCA) CERTIFICACIÓN ORGÁNICA CERTIFICACIÓN ECOLÓGICA
Ebro Foods Netherland BV (Lassie)	Netherlands	Wormer	IFS GMP +
Ebrofrost Denmark	Denmark	Orbaek	BRC
Ebrofrost Germany	Germany	Offingen	BRC HALAL KAT ORGANIC CERTIFICATION
Ebrofrost UK	UK	Beckley	BRC
Ebrofrost Northamerica	USA	Memphis	SQF ORGANIC CERTIFICATION HALAL KOSHER
Ebro India	India	Taraori	ISO 22000 ORGANIC CERTIFICATION (organic paddy rice crop) ORGANIC CERTIFICATION (organic rice processing) BRC IPQC PPQS USA HALAL

COMPANY	COUNTRY	WORKPLACE	CERTIFICATION	
Geovita Functional Ingredients	Italy	Bruno	BCR	
			ORGANIC CERTIFICATION	
			KOSHER	
		Nizza Monferrato	IFS	
			HALAL	
			FSSC 22000	
			ORGANIC CERTIFICATION	
			Villanova Monferrato	BRC
				IFS
HALAL				
ORGANIC CERTIFICATION				
Harinas Santa Rita	Spain	Loranca de Tajuña	IFS	
Herba Bangkok	Thailand	Saraburi	ISO 9001	
			BRC	
			ORGANIC CERTIFICATION	
			HALAL	
			KOSHER	
			GMP & HACCP	
			GLUTEN FREE CERTIFICATION	
Herba Cambodia	Cambodia	Phnom Phen	ORGANIC CERTIFICATION (EU)	
			ORGANIC CERTIFICATION (USA)	
			KOSHER	
			GMP & HACCP	
Herba Ingredients, B.V.	Belgium	Schoten (warehouse)	ORGANIC CERTIFICATION (EU)	
		Schoten (plant B)	IFS FOOD	
			GMP +	
		Schoten (plant C)	IFS FOOD	
			GMP +	
		Schoten (plant F)	ORGANIC CERTIFICATION (EU)	
			IFS FOOD	
		GMP +		
	Netherlands	Wormer	ECOLOGICAL CERTIFICATION (CHINA)	
			IFS BROKER	
			IFS FOOD	
			GMP +	
KOSHER				
HALAL				
ORGANIC CERTIFICATION (EU)				
ORGANIC CERTIFICATION NATURLAND				

COMPANY	COUNTRY	WORKPLACE	CERTIFICATION
Herba Ricemills	Spain	Coria del Río	IFS
			ISO 9001
			ECOLOGICAL CERTIFICATION
			ECOLOGICAL CERTIFICATION (USA)
		San Juan de Aznafarache	KOSHER
			ISO 9001
			BRC
			IFS
			ECOLOGICAL CERTIFICATION
			ECOLOGICAL CERTIFICATION (USA)
			KOSHER
		Jerez de la Frontera	ISO 9001
			IFS
			ECOLOGICAL CERTIFICATION
			ECOLOGICAL CERTIFICATION (USA)
		Silla	BRC
			IFS
			KOSHER
			ISO 9001
		Algemesí (ready foods plant)	BRC
			ISO 9001
			IFS
La Loma Alimentos	Argentina	Los Charrúas	BRC
			ISO 9001
			KOSHER
			ISO 9001
		Chajarí	IFS
			ISO 9001
			KOSHER
			ISO 9001
		Los Charrúas	GLUTEN FREE CERTIFICATION
			HACCP
Lustucru Frais	France	Saint Genis Laval	GMP
			KOSHER
		Lorette	KOSHER
			HACCP
		Communay	GMP

COMPANY	COUNTRY	WORKPLACE	CERTIFICATION
Mundi Riso	Italy	Vercelli	IFS
			BRC
			ECOLOGICAL CERTIFICATION (EU)
Mundi Riz	Morocco	Larache	KOSHER
Neofarms Bio	Argentina	Entre Ríos	ISO 22000
			ECOLOGICAL CERTIFICATION (CHINA)
			KOSHER
			ECOLOGICAL CERTIFICATION (UE)
			ECOLOGICAL CERTIFICATION (USA)
Pastificio Lucio Garofalo	Italy	Gragnano	GLUTEN FREE CERTIFICATION
			BRC
			IFS
			VQIP
			GLUTEN FREE CERTIFICATION
			VEGAN
			KOSHER
			HALAL
Riviana Foods Canada	Canada	Delta	ECOLOGICAL CERTIFICATION
		Hamilton	NO-GMO
Riviana Foods USA	Usa	Memphis	BRC
			BRC
			KOSHER
			SQF
			HALAL
		Brinkley	ECOLOGICAL CERTIFICATION
			GLUTEN FREE CERTIFICATION
			SQF
		Clearbrook	KOSHER
			ECOLOGICAL CERTIFICATION
			SQF
		Alvin	KOSHER
			ECOLOGICAL CERTIFICATION
			SQF
		Carlisle	KOSHER
			ECOLOGICAL CERTIFICATION
			HALAL
Roland Monerrat	France	Feillens	SQF
			KOSHER

COMPANY	COUNTRY	WORKPLACE	CERTIFICATION
S&B Herba Foods	UK	Cambridge	BRC
			FEMAS
			KOSHER
		Liverpool	BRC
Tilda	UK	Rainham (classic site)	KOSHER
			BRC
		Rainham (Jazz site)	FEMAS
			KOSHER
Transimpex	Germany	Lambsheim	BRC
			IFS
			ECOLOGICAL CERTIFICATION
			ORGANIC CERTIFICATION NATURLAND



CALORIFIC POWER OF FUELS, EMISSION FACTORS AND WATER STRESS CLASSIFICATION
Table 1. Net calorific value (NCV) of Fuels

FUEL IN STATIONARY SOURCES	NCV	UNIT NCV	SOURCE NCV
Natural Gas	0.03789	GJ/m ³ N	National GHG Inventory of Spain (Annex 7), based on 2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.1)
Liquefied Petroleum Gas (LPG)	0.0473	GJ/kg	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.1)
Propane	0.0462	GJ/kg	Version 15, June 2020 of the EF document of the Ministry for Ecological Transition and Demographic Challenge (MITERD), based on 2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.1)
Liquefied Natural Gas (LNG)	0.0442	GJ/kg	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.1)
Butane	0.04478	GJ/kg	Version 15, June 2020 of the EF document of the MITERD, based on 2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.1)
Gasoline	0.0443	GJ/kg	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.1)
Diesel	0.043	GJ/kg	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.1)
Charcoal	0.0295	GJ/kg	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.1)
Biomass (wood chip)	0.0156	GJ/kg	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.1 & 2)
Biomass (rice husk)	0.0116	GJ/kg	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.1 & 2)

FUEL IN MOBILE SOURCES	NCV	UNIT NCV	SOURCE NCV
Liquefied Natural Gas (LNG)	0.0442	GJ/kg	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.1 & 3)
Liquefied Petroleum Gas (LPG)	0.0473	GJ/kg	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.1 & 3)
Gasoline	0.0443	GJ/kg	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.1 & 3)
Diesel	0.043	GJ/kg	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.1 & 3)

Table 2. Emission Factors of fuels and activities

FUEL IN STATIONARY SOURCES	EF CO ₂ (KGCO ₂ /GJNCV)	EF CH ₄ (KGCH ₄ /GJNCV)	EF N ₂ O (KGN ₂ O/GJNCV)	UNIT EF	SOURCE NCV
Natural Gas	56.1	0.001	0.0001	kg CO ₂ /GJNCV	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.2)
Liquefied Petroleum Gas (LPG)	63.1	0.001	0.0001	kg CO ₂ /GJNCV	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.2)
Propane	63.6	0	0	kg CO ₂ /GJNCV	Version 15, June 2020 of the EF document of the MITERD, based on 2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.2)
Liquefied Natural Gas (LNG)	64.2	0.003	0.0006	kg CO ₂ /GJNCV	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.2)
Butane	66.2	0	0	kg CO ₂ /GJNCV	Version 15, June 2020 of the EF document of the MITERD, based on 2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.2)
Gasoline	69.3	0.003	0.0006	kg CO ₂ /GJNCV	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.2)
Diesel	74.1	0.003	0.0006	kg CO ₂ /GJNCV	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.2)
Charcoal	0	0.2	0.004	kg CO ₂ /GJNCV	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch. 1 & 2)
Biomass (wood chips)	0	0.03	0.004	kg CO ₂ /GJNCV	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch. 1 & 2)
Biomass (rice husk)	0	0.03	0.004	kg CO ₂ /GJNCV	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch. 1 & 2)

FUEL IN MOBILE SOURCES	EF CO ₂ (KGCO ₂ /GJNCV)	EF CH ₄ (KGCH ₄ /GJNCV)	EF N ₂ O (KGN ₂ O/GJNCV)	UNIT EF	SOURCE NCV
Liquefied Natural Gas (LNG)	56.1	0.092	0.003	kg CO ₂ /GJPCI	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.1 & 3)
Liquefied Petroleum Gas (LPG)	63.1	0.062	0.0002	kg CO ₂ /GJPCI	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.1 & 3)
Gasoline	69.3	0.025	0.008	kg CO ₂ /GJPCI	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.1 & 3)
Diesel	74.1	0.0039	0.0039	kg CO ₂ /GJPCI	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch.1 & 3)

OTHER DATA ON ACTIVITY	EF CO ₂ (KGCO ₂ /GJNCV)	EF CH ₄ (KGCH ₄ /GJNCV)	EF N ₂ O (KGN ₂ O/GJNCV)	UNIT EF	SOURCE NVC
Rice crop	0	1.3000	0	kg CO ₂ /GJPCI	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.4, ch.5) IPCC for fields not flooded for less than 180 days prior to growth, permanently flooded during growth and without organic fertiliser
Elimination of N			0.005	kg CO ₂ /GJPCI	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.5, ch.6)

Table 3. Emission Factor of biogenic CO₂

GAS	EF	UNIT EF
Charcoal	112	kg CO ₂ e/GJ
Biomass (wood chips)	112	kg CO ₂ e/GJ
Biomass (rice husk)	100	kg CO ₂ e/GJ

Source: 2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.2, ch. 1 & 2)

Table 4. Global Warming Potential of GHG

GHG	GWP	SOURCE GWP
CO ₂	1	IPPC fourth assessment report
CH ₄	28	IPPC fourth assessment report
N ₂ O	265	IPPC fourth assessment report

Table 5. Emission Factor Electricity (based on location)

COUNTRY	EF	UNIT EF	SOURCE EF
Spain	0.2500	kgCO ₂ e/kWh	Emission factors, Registration of Carbon Footprint, CO ₂ Offset and Absorption Projects. MITERD. April 2021 V. 17
UK	0.2331	kgCO ₂ e/kWh	UK Government GHG Conversion Factors for Company Reporting. DEFRA 2020
France	0.0850	kgCO ₂ e/kWh	Centre de ressources sur les bilans de gaz a effet de serre. Base Carbone. ADEME
Germany	0.4610	kgCO ₂ e/kWh	Centre de ressources sur les bilans de gaz a effet de serre. Base Carbone. ADEME. International Energy Agency
Argentina	0.3670	kgCO ₂ e/kWh	Centre de ressources sur les bilans de gaz a effet de serre. Base Carbone. ADEME. International Energy Agency
Belgium	0.2200	kgCO ₂ e/kWh	Centre de ressources sur les bilans de gaz a effet de serre. Base Carbone. ADEME. International Energy Agency
Cambodia	0.8040	kgCO ₂ e/kWh	Centre de ressources sur les bilans de gaz a effet de serre. Base Carbone. ADEME. International Energy Agency
Canada	0.1860	kgCO ₂ e/kWh	Centre de ressources sur les bilans de gaz a effet de serre. Base Carbone. ADEME. International Energy Agency
Denmark	0.3600	kgCO ₂ e/kWh	Centre de ressources sur les bilans de gaz a effet de serre. Base Carbone. ADEME. International Energy Agency
UAE	0.5980	kgCO ₂ e/kWh	Centre de ressources sur les bilans de gaz a effet de serre. Base Carbone. ADEME. International Energy Agency
USA	0.5620	kgCO ₂ e/kWh	US EPA. Household Carbon Footprint Calculator
Morocco	0.7180	kgCO ₂ e/kWh	Centre de ressources sur les bilans de gaz a effet de serre. Base Carbone. ADEME. International Energy Agency
Netherlands	0.4150	kgCO ₂ e/kWh	Centre de ressources sur les bilans de gaz a effet de serre. Base Carbone. ADEME. International Energy Agency
Portugal	0.2550	kgCO ₂ e/kWh	Centre de ressources sur les bilans de gaz a effet de serre. Base Carbone. ADEME. International Energy Agency
Romania	0.4990	kgCO ₂ e/kWh	Centre de ressources sur les bilans de gaz a effet de serre. Base Carbone. ADEME. International Energy Agency
Hungary	0.3170	kgCO ₂ e/kWh	Centre de ressources sur les bilans de gaz a effet de serre. Base Carbone. ADEME. International Energy Agency
India	0.9120	kgCO ₂ e/kWh	Centre de ressources sur les bilans de gaz a effet de serre. Base Carbone. ADEME. International Energy Agency
Italy	0.4060	kgCO ₂ e/kWh	Centre de ressources sur les bilans de gaz a effet de serre. Base Carbone. ADEME. International Energy Agency
Thailand	0.5130	kgCO ₂ e/kWh	Centre de ressources sur les bilans de gaz a effet de serre. Base Carbone. ADEME. International Energy Agency
Steam or heat purchased and consumed	0.1726	kgCO ₂ e/kWh	UK Government GHG Conversion Factors for Company Reporting. DEFRA 2020
Cooling purchased and consumed	0.0165	kgCO ₂ e/kWh	Centre de ressources sur les bilans de gaz à effet de serre 2020. Base Carbone. ADEME.

Table 6. Emission Factors of Coolants

COOLANTS	EF
Carbon dioxide	1
Methane	28
Nitrous oxide	265
HFC-23	14,800
HFC-32	675
HFC-41	92
HFC-125	3,500
HFC-134	1,100
HFC-134a = R134A	1,430
HFC-143	353
HFC-143a	4,470
HFC-152a	124
HFC-227ea	3,220
HFC-236fa	9,810
HFC-245fa	1,030
HFC-43-10mee	1,640
Perfluoromethane (PFC-14)	7,390
Perfluoroethane (PFC-116)	12,200
Perfluoropropane (PFC-218)	8,830
Perfluorocyclobutane (PFC-318)	10,300
Perfluorobutane (PFC-3-1-10)	8,860
Perfluoropentane (PFC-4-1-12)	9,160
Perfluorohexane (PFC-5-1-14)	9,300
Sulphur hexafluoride (SF6)	22,800
HFC-152	53
HFC-161	12
HFC-236cb	1,340
HFC-236ea	1,370
HFC-245ca	693
HFC-365mfc	794
R717 (ammonia)	0

COOLANTS	EF
R448A	1,387
R410A	1,890
HFC-1234ze (R1234ze)	7
R717 (ammonia)	0
R404A	3,922
R407A	2,107
R407C	1,774
R407F	1,825
R408A	3,152
R410A	2,088
R507A	3,985
R508B	13,396
R403A	3,124
R407B	2,804
R410B	2,229
R413A	2,053
R-417A	2,346
R-417B	3,026
R-422A	3,143
R-422D	2,729
R-424A	2,440
R-426A	1,508
R-427A	2,138
R-428A	3,607
R-434A	3,245
R-437A	1,805
R-438A	2,264
R-442A	1,888
R-449A	1,396
R-452A	2,140
R-453A	1,765

Unit EF: kg CO₂e/kg coolant

Source: IPCC Fourth Assessment Report

Table 7. Emission Factors of Pollutants NOx, CO, SOx, COV, PM

	STATIONARY COMBUSTION		
GJ POLLUTANT	NATURAL GAS+LNG+LPG+BUTANE+PROPANE FC (G/GJ)	GASOLINE+DIESEL FC (G/GJ)	RICE HUSK +WOOD CHIPS +CHARCOAL FC (G/GJ)
NOX	74	513	91
CO	29	66	570
COV	23	25	300
SOx	0.67	47	11
PM10	0.78	20	143
PM2.5	0.78	20	140

	MOBILE COMBUSTION			
GJ POLLUTANT	GASOLINE FC (G/GJ)	DIESEL FC (G/GJ)	LPG FC (G/GJ)	LNG FC (G/GJ)
CO	1,911.64	77.42	1,790.698	128.959
COV	226.862	16.279	288.372	5.882
NOX	197.065	301.395	321.353	294.118
PM	0.677	25.581		49.774

Source: European Environment Agency (EMEP)

<https://www.eea.europa.eu/publications/emep-eea-guidebook-2019/part-b-sectoral-guidance-chapters> [eea.europa.eu]

Table 8. Rice Crop Emission Factor

EF CH4 (KG/HA/DAY)	SOURCE NCV
1.19	2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol.4, ch.5) IPCC for fields not flooded for less than 180 days prior to growth, permanently flooded during growth and without organic fertiliser

Table 9. Water stress classification (World Resources Institute)

COUNTRY	WATER STRESS CLASSIFICATION (WORLD RESOURCES INSTITUTE)
GERMANY	Medium-High
ARGENTINA	Low-Medium
BELGIUM	High
CAMBODIA	Low
CANADA	Low
DENMARK	Medium-High
UAE	Extremely High
SPAIN	High
FRANCE	Medium-High
HUNGARY	Low
INDIA	Extremely High
ITALY	High
MOROCCO	High
NETHERLANDS	Low-Medium
PORTUGAL	High
ROMANIA	Low-Medium
THAILAND	Medium-High
UK	Low-Medium
USA	Low-Medium

