KPI LIST (post issue) - GREEN BOND ISSUED 2020-MATURITY 2031 (ISIN XS2275029085)

Business Unit	n	Project Description	Eligible Green Category	Eligible Category (DNV)	KPI	UM	2006/2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020 FINAL	2021	2022
WASTE MANAGEMENT	1	I.Blu-Selection plant in San Giorgio di Nogaro (UD)	Waste management efficiency and recycling	Waste collection and sorting upgrades	Plastic sent for material recovery	t														30.177	72.000	72.000
					Avoided CO_2 emissions	t														45.266	108.000	108.000
	2	I.Blu-Selection plant in Cadelbosco (RE)	Waste management efficiency and recycling	Waste collection and sorting upgrades	Plastic sent for material recovery	t														29.458	60.000	60.000
					Avoided CO_2 emissions	t														44.187	90.000	90.000
	3	I.Blu-Recycling plant in Costa di Rovigo (RO)	Waste management efficiency and recycling	Waste collection and sorting upgrades	Blupolymer produced	t														7.054	12.000	13.000
					Bluair produced	t														6.648	24.000	25.000
					Avoided CO_2 emissions	t														12.709	25.600	27.500
	4	I.Blu-Recycling plant in San Giorgio di Nogaro (UD)	Waste management efficiency and recycling	Waste collection and sorting upgrades	Bluair produced	t															15.000	30.000
					Avoided CO_2 emissions	t															4.800	9.600
	5	Development of separate waste collection services	Waste management efficiency and recycling	Waste collection and sorting upgrades	Total sorted waste collection	t						635.724	644.444	675.610	721.788	737.163	711.911	788.313	813.804	825.674	809.000	828.000
					Total of non sorted waste disposed	t						550.903	528.100	503.896	484.128	488.426	464.837	445.411	415.905	371.735	354.000	335.400
					Number of bins for sorted waste	N						661.961	648.491	648.709	663.268	699.065	615.681	839.269	886.715	856.108	910.775	918.896
					Volumes of bins for sorted waste	mc						105.278	111.322	120.371	145.345	155.114	163.037	224.759	236.033	214.253	245.807	248.395
					Door to door collection system	N						687.215	833.069	998.080	1.061.847	1.139.228	1.391.087	1.473.268	1.590.536	1.656.415	1.859.322	1.925.170
					Sorted waste collection hubs	N						112	112	112	117	117	113	113	117	117	117	117
					Volumes of waste collected in the collection hubs	t						161.937	174.639	186.210	208.544	205.719	193.308	211.396	228.358	219.801	228.625	230.224
	6	Biowaste recovery to produce compost and biomethane - Ferrania (SV)	Waste management efficiency and recycling	Waste collection and sorting upgrades	Production of compost (% on organic fraction in input)	%														11%	15%	15%
					Production of biomethane	Msm^3															4	4
					Avoided CO_2 emissions from fossil sources per operating year	t															7.888	7.888
					Primary energy saving per operating year	Toe															6.270	6.270
ENERGY	7	Parma district heating network	Renewable energy	Energy network development	Primary energy saving per operating year	MWh						12.813	5.733	81.696	114.868	144.524	143.372	141.785	149.810	137.588	148.252	148.252
					Avoided CO_2 emissions from fossil sources per operating year	t						4.326	1.551	16.856	23.614	29.523	29.165	28.934	30.099	28.680	30.673	30.673
					Distributed thermal energy per operating year	MWh						176.797	176.815	159.146	188.688	196.691	194.389	190.364	187.274	183.355	204.355	240.355
	8	District heating networks development in Reggio Emilia	Renewable energy	Energy network development	Primary energy saving per operating year	MWh						91.780	92.595	93.365	93.883	94.065	120.327	114.281	132.038	63.581	98.175	98.175
					Avoided CO_2 emissions from fossil sources per operating year	t						33.289	33.585	33.864	34.052	34.118	47.097	31.056	43.307	23.049	35.609	35.609
					Distributed thermal energy per operating year	MWh						456.566	285.767	384.325	409.932	402.057	407.335	413.484	416.942	385.991	419.625	419.625
	9	Cogeneration plant Torino Nord	Energy efficiency	Cogeneration facilities	Electrical energy produced per operating year	MWhe						1.432.728	1.894.130	1.080.072	2.200.788	2.133.545	2.002.201	2.079.471	2.041.630	2.085.836	1.820.532	1.820.931
					Thermal energy produced per operating year	MWht						453.069	474.766	419.311	1.092.632	1.030.891	958.458	1.013.481	907.646	963.023	1.088.406	1.102.496
					Primary energy saving per operating year	MWh						574.353	796.823	471.970	1.396.716	1.308.017	1.226.699	1.263.239	987.121	906.802	1.348.095	1.363.535
					Avoided CO_2 emissions from fossil sources per operating year	t						211.482	289.447	169.483	426.318	413.253	397.432	361.382	331.455	288.678	363.262	366.492
	10	Torino LED (I and II phases)	Energy efficiency	Energy distribution and management	Primary energy saving per operating year	MWh										23.700	45.300	45.300	51.498	55.008	65.500	67.700
					Avoided CO_2 emissions from fossil sources per operating year	t										5.600	10.300	10.000	11.347	11.565	14.400	14.900
	11	Smart solutions	Energy efficiency	Energy distribution and management	Avoided CO_2 emissions from fossil sources per operating year	t												1.119	3.096	2.545	2.380	2.380
					Primary energy saving per operating year	Toe												648	1.282	1.067	975	975
	12	Enìa Solaris photovoltaic plants near Brindisi	Renewable energy	Solar PV energy generation	Net produced electricity from renewable non-fossil sources per operating year	kWh						6.813.750	6.290.625	6.721.427	7.051.488	6.826.286	7.370.000	6.667.000	7.137.000	7.318.233		
					Avoided CO_2 emissions from fossil sources per operating year	t						3.491	3.223	3.444	3.613	3.498	3.624	3.188	3.419	3.345		
	13	Photovoltaic plants owned by "Varsi" company	Renewable energy	Solar PV energy generation	Net produced electricity from renewable non-fossil sources per operating year	kWh							9.140.541	9.190.145	8.441.384	8.180.693	9.462.000	8.700.000	9.150.000	8.700.813	8.695.951	8.861.162
					Avoided CO_2 emissions from fossil sources per operating year	t							4.501	4.663	4.364	4.322	4.653	4.160	4.383	3.977	4.358	4.358
	14	Photovoltaic plants owned by "Greensource" company	Renewable energy	Solar PV energy generation	Net produced electricity from renewable non-fossil sources per operating year	kWh							4.261.527	4.241.703	4.113.361	3.670.617	4.491.000	4.255.000	4.464.000	4.528.681	4.137.375	4.137.375
					Avoided CO_2 emissions from fossil sources per operating year	t							2.098	2.152	2.126	1.939	2.209	2.035	2.138	2.070	2.035	2.035
NETWORKS	15	Improvement of Reggio Emilia plants	Waste water treatment	Waste water treatment plant upgrades	Volumes of water destined to irrigation re-usage / Volumes of total treated water	%										18%	28%	28%	28%	31%	28%	28%
					Treated population equivalent (potential)	N						19.350	19.350	19.350	20.250	20.250	24.250	24.250	31.750	31.750	38.850	38.850
					Analytic parameters (Abb % BOD, Abb % COD, Abb % SST, Abb % Ntot, Abb % Ptot)	%																
	16	Improvement of Piacenza plants	Waste water treatment	Waste water treatment plant upgrades	Treated population equivalent (potential)	N						17.360	17.360	17.360	19.500	19.500	23.500	23.500	23.500	23.500	23.500	23.500
					Analytic parameters (Abb % BOD, Abb % COD, Abb % SST, Abb % Ntot, Abb % Ptot)	%																
	17	Investiment in drainage and purification (La Spezia-Liguria)	Waste Water treatment	Wastewater treatment plant upgrades	Treated population equivalent (potential)	N												220.000	228.378	230.306	247.000	257.000
	18	Electricity distribution Smart Metering 1G (Torino and Parma)	Energy efficiency	Energy distribution and management	Smart meters installed	n	81.000	284.000	522.000	602.000	632.000	648.000	662.000	675.000	687.000	698.000	708.000	719.000	727.545	730.535	719.000	719.000
					Percentage of smart meters on the total	%	11%	39%	71%	82%	86%	88%	90%	92%	93%	95%	96%	98%	96%	96%	98%	98%
	19	Gas distribution Smart Metering (Emilia and Liguria)	Energy efficiency	Energy distribution and management	Smart meters installed	n				278	2.710	2.928	5.104	10.862	39.422	97.034	258.569	469.480	603.171	654.804	738.500	748.800
					Percentage of smart meters on the total	%					0,3%	0,4%	1%	1%	5%	13%	33%	61%	78%	84%	95%	97%
	20	Replacement of gas distribution networks	Energy efficiency	Energy distribution and management	Average network leaks (underground network measured with planned inspection)	n				1.050	990	886	776	715	665	620	589	548	505	289	≤ 530	