

KPI LIST (post issue) GREEN BOND ISSUED 2018-MATURITY 2025 (ISIN XS1881533563)

Business Unit	n	Project Description	Eligible Green Category	Eligible Category (DNV)	KPI	UM	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017 FINAL	2018 FINAL	2019 FINAL	2020 FINAL	2021 FINAL	2022	2023	2024	2025					
WASTE MANAGEMENT	1	Revamping Saliceti plant owned by Recos company (WDF recovery)	Waste management efficiency and recycling	Waste collection and sorting upgrades	Waste-derived fuel (WDF) per operating year	t										7.886	2.585	16.523	9.429	8.461		23.364	30.385	30.385					
					Percentage of WDF on total treated waste per operating year	%										10%	5%	32%	20%	21%		42%	41%	41%					
ENERGY	2	Accumulators district heating in San Salvario (TO)	Energy efficiency	Energy distribution and management	Primary energy saving per operating year	MWh																11.077	12.616	10.623	9.884				
					Electrical energy produced from renewable non-fossil sources per operating year	MWh																			9	18	18	18	
					Avoided CO ₂ emissions from fossil sources per operating year	t																				2.178	2.480	2.088	1.943
					Avoided CO ₂ emissions from fossil sources per operating year by photovoltaic plant	t																				4	8	8	8
	7	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	2.190.200	1.979.835	1.996.752	2.045.593	2.077.530				
					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	1.119.539	971.436	1.051.812	960.945	885.378			
					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	1.088.494	988.668	1.048.294	991.387	959.240		
					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	310.702	249.932	247.085	220.707	198.843		
	8	Valle Orco hydroelectric plants	Renewable energy	Mini hydro power	Electrical energy produced from renewable non-fossil sources per operating year	MWhe						659.800	835.100	657.100	744.894	607.942	647.139	785.192	713.006	681.521	628.447	646.300	490.422	754.844	489.906				
					Avoided CO ₂ emissions from fossil sources per operating year	t								212.358	318.999	196.644	506.814	457.165	397.432	375.498	341.537	311.495	284.226	298.539	212.264	320.830	204.476		
	9	VDE hydroelectric plants (Chiomonte- Susa) Repowering project	Renewable energy	Mini hydro power	Electrical energy produced from renewable non-fossil sources per operating year	MWhe						56.140	72.690	62.690	62.831	60.034	59.818	57.263	903	23.501	24.019	42.000	42.000	42.000	42.000				
					Avoided CO ₂ emissions from fossil sources per operating year	t								27.643	36.882	32.407	33.198	30.760	29.418	27.384	433	10.741	10.863	19.401	18.178	17.882	17.530		
	10	Cogeneration plant Moncalieri – GT2.RPW	Energy efficiency	Cogeneration facilities	Electrical energy produced per operating year	MWhe						1.669.146	2.028.560	1.585.195	1.292.799	1.515.332	1.882.310	1.807.728	1.792.325	1.400.952	1.657.462	1.415.254	1.273.574	1.304.215	1.314.065				
					Thermal energy produced per operating year	MWht							659.604	751.435	817.637	477.307	612.983	680.375	538.323	543.157	517.001	591.558	513.968	702.984	682.580	652.940			
Primary energy saving per operating year					MWh								84.092	97.341	84.700	58.099	871.249	1.026.936	905.088	730.886	540.591	640.544	602.777	711.107	702.141	683.436			
Avoided CO ₂ emissions from fossil sources per operating year					t								310.931	400.332	349.098	265.512	303.862	321.873	269.818	263.595	177.513	218.196	157.921	166.052	154.687	141.012			
11	Mini Hydro Fornace plant in Baiso (RE)	Renewable energy	Mini hydro power	Net produced electricity from renewable non-fossil sources per operating year	kWh						7.118.000	8.415.080	8.428.502	6.956.287	6.879.252	4.814.847	7.559.000	7.871.000	5.037.534	5.205.438	8.583.100	8.583.100	8.605.900	8.583.100					
				Avoided CO ₂ emissions from fossil sources per operating year	t								3.505	4.270	4.357	3.675	3.525	2.368	3.634	3.770	2.302	2.354	3.965	3.715	3.658	3.582			
12	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	8.861.162	8.861.162	8.861.162	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	3.933	4.093	3.835	3.766	3.698				
13	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	4.164.538	4.137.375	4.137.375	4.137.375	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	1.883	1.911	1.791	1.759	1.727				
MARKET	14	E-mobility initiatives in the Iren offices	Transport	Electric vehicles	Avoided CO ₂ emissions from fossil sources per operating year	t											52	789	1.069	1.420	1.372	2.691	3.408	4.100					
NETWORKS	15	Investments in Sewage and Waste water plants (Emilia and Liguria)	Waste water treatment	Waste water treatment plant upgrades	Water Treatment plants	N	1.014	1.030	1.035	1.047	1.047	1.056	1.076	1.085	1.102	1.122	1.278	1.293	1.310	1.291	1.300	1.300	1.300	1.300					
					Sewage systems	km	7.689	8.075	8.443	8.772	8.983	9.052	9.164	9.274	9.293	9.924	10.606	10.662	10.739	10.842	10.700	10.700	10.700	10.700	10.700				
16	Electricity distribution investments	Energy efficiency	Energy distribution and management	Network leaks	%				5%	5%	7%	6%	6%	5%	4%	4%	4%	3%	2%	3%	3%	3%	3%						
				Electricity fed into the network	GWh				4.484	4.485	4.451	4.097	4.191	4.387	4.223	3.804	3.790	3.506	3.585	3.600	3.600	3.600	3.600	3.600					