

Status and prospects of energy transition in the Western Balkans

Stuck in coal, in breach of emission standards

Out of Pace or out of the Race?



Western Balkans is the home to the most polluting thermal power plants in Europe. Despite the fact that Contracting Parties committed themselves to significantly reduce dust, SO₂ and NO_x emissions in line with the provisions of the

Large Combustion Plants Directive by 31 December 2017, emissions are still huge and larger than prescribed limits. Some of the plants exceeded prescribed limits for SO₂ emissions by as much as 15 times.

Figure 5 Electricity production in the Western Balkans by source, GWh

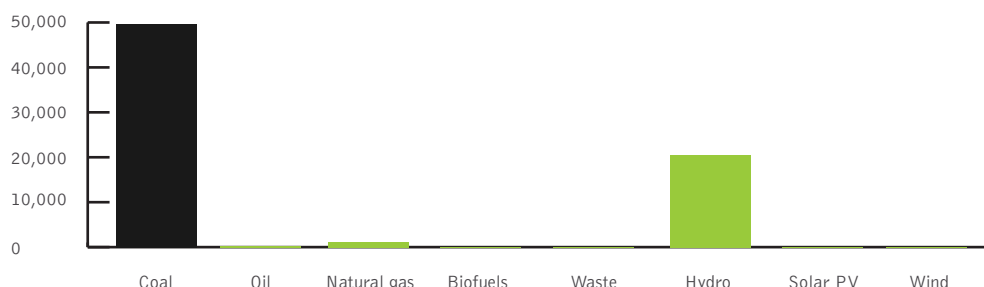


Table 6 Capacities, production and emissions data on coal plants in the Western Balkans, 2018 emissions data; Source: national reports

Name of plant	Contracting Party	Plant capacity (MW)	Date of starting operation	Annual electricity production (GWh)	SO ₂ emissions (t)	Dust emissions (t)	NO _x emissions (t)
Gacko	Bosnia and Herzegovina	300	1983	1,465	18,710	1,087	2,920
Ugljevik	Bosnia and Herzegovina	300	1985	1,560	83,266	481	3,547
Kakanj 5	Bosnia and Herzegovina	110	1969	2,546	20,533	16	2,113
Kakanj 6	Bosnia and Herzegovina	110	1977		21,913	18	2,255
Kakanj 7	Bosnia and Herzegovina	230	1988		47,707	38	4,902
Tuzla 3	Bosnia and Herzegovina	110	1966	3,461	0	0	0
Tuzla 4	Bosnia and Herzegovina	200	1971		14,399	285	1,869
Tuzla 5	Bosnia and Herzegovina	200	1974		11,647	263	1,414
Tuzla 6	Bosnia and Herzegovina	215	1978		18,147	104	1,140
Stanari	Bosnia and Herzegovina	300	2016	2,056	N/A	N/A	N/A

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Name of plant	Contracting Party	Plant capacity	Date of starting operation	Annual electricity production	SO ₂ emissions	Dust emissions	NO _x emissions
Bitola 1	North Macedonia	233	1982	885	34,234	2,582	3,649
Bitola 2	North Macedonia	233	1984	782			
Bitola 3	North Macedonia	233	1988	878	18,589	888	891
Oslomej	North Macedonia	125	1980	68	1,031	115	168
Pljevlja I	Montenegro	210	1982	1,444	64,475	282	7,786
Kostolac A1	Serbia	100	1967	2,010	17,599	263	1,399
Kostolac A2	Serbia	210	1980		26,316	352	2,878
Kostolac B1	Serbia	348	1987	4,329	113,913	1,268	8,076
Kostolac B2	Serbia	348	1991				
Morava	Serbia	125	1969	444	11,029	70	1,219
Nikola Tesla A1	Serbia	210	1970	7,878	35,681	2,081	4,862
Nikola Tesla A2	Serbia	210	1970				
Nikola Tesla A3	Serbia	305	1976				
Nikola Tesla A4	Serbia	309	1978		53,025	918	7,166
Nikola Tesla A5	Serbia	309	1979				
Nikola Tesla A6	Serbia	309	1979				
Nikola Tesla B1	Serbia	620	1983	7,733	89,045	1,809	12,014
Nikola Tesla B2	Serbia	620	1985				
Kolubara A3-1	Serbia	32	1956	560	5,466	3,084	569
Kolubara A3-2, 3, 4	Serbia	32	1957				852
Kolubara 5	Serbia	110	1979				305
Kosovo A3	Kosovo*	200	1970	1,500	709	97	1,401
Kosovo A4	Kosovo*	200	1971		1,407	165	2,924
Kosovo A5	Kosovo*	210	1975		1,477	143	2,661
Kosovo B1	Kosovo*	339	1983	3,750	4,435	2,628	6,673
Kosovo B2	Kosovo*	339	1984		3,705	2,633	5,936