

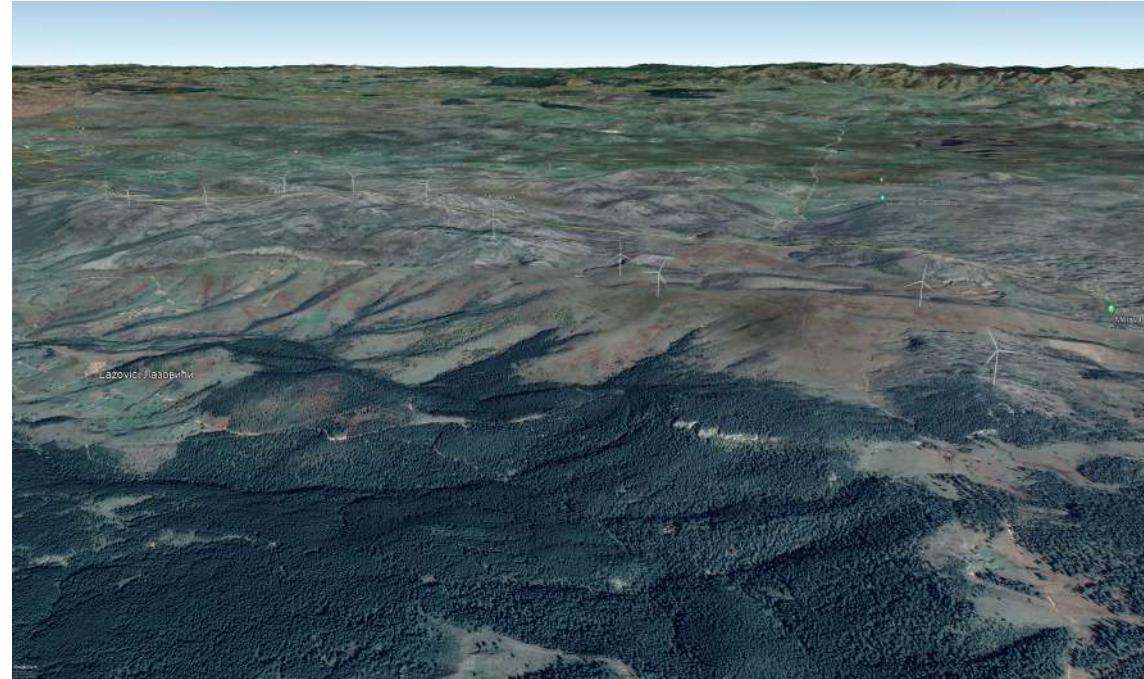
# Wind farm Korita



# Location



**Municipality of Bijelo Polje**  
Montenegro

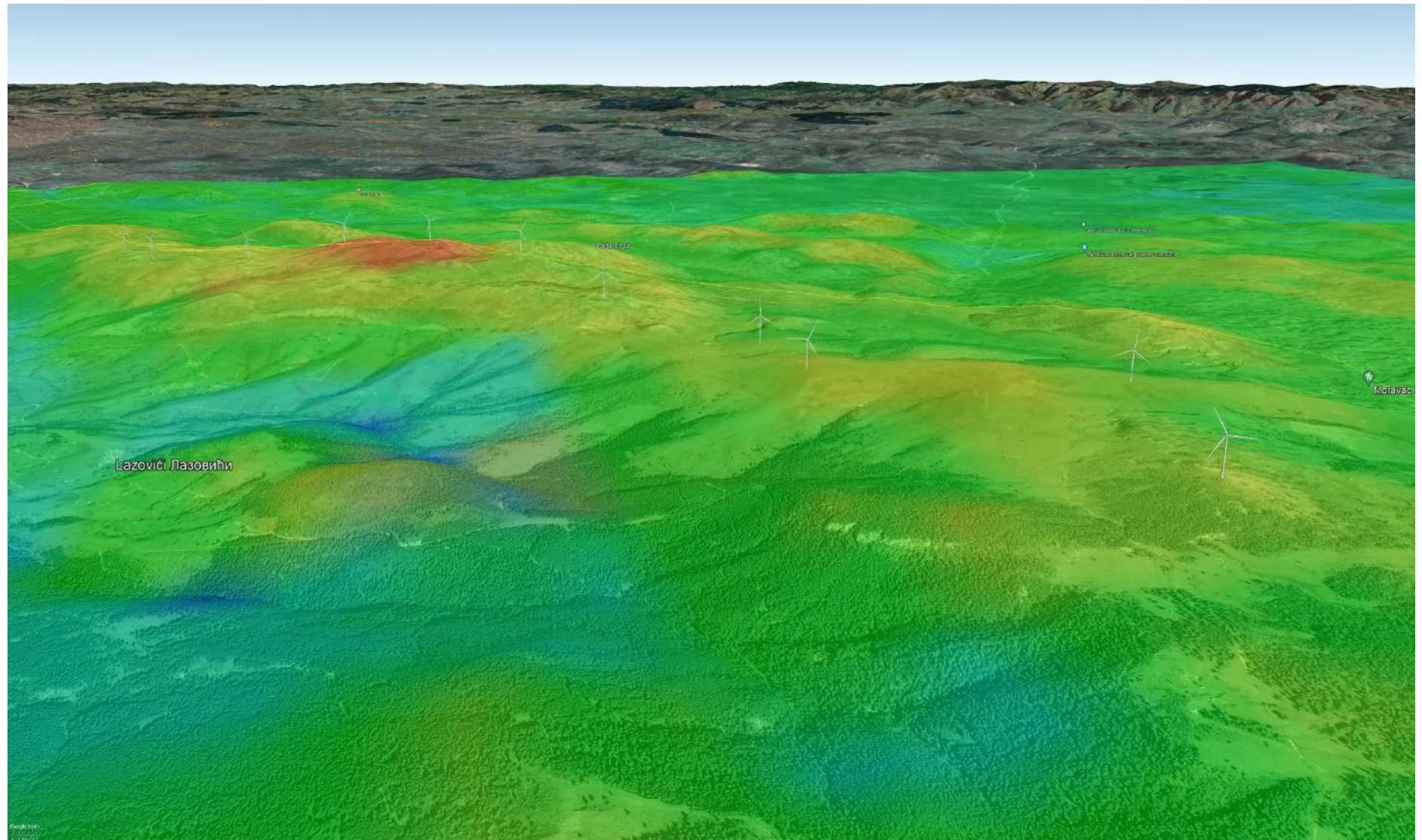
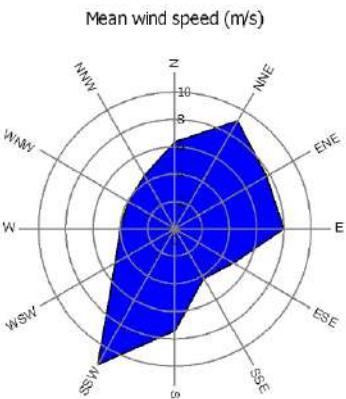
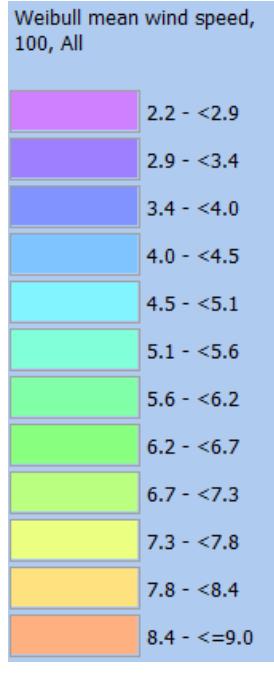


**Latitude: 42°**

**Longitude: 19°**

**Elevation≈ 1450 mm**

# Wind potential at location



# Wind generator

Manufacturer	Siemens Gamesa
Type/Version	SG 6.6-170
Rated power	6,600.0 kW
Secondary generator	
Rotor diameter	170.0 m
Tower	10! Tubular
Grid connection	50/60 Hz
Country (origin)	Denmark
Blade type	
Generator type	Variable
Rated	8.8 rpm
Initial	5.1 rpm
Default hub height	115.0 m
Alternative hub heights (m)	115.0 135.0 145.0
Maximum blade width	4.50 m *)
Blade width for 90% radius	1.50 m *)

Add   Remove



# Map of Wind Power Plant

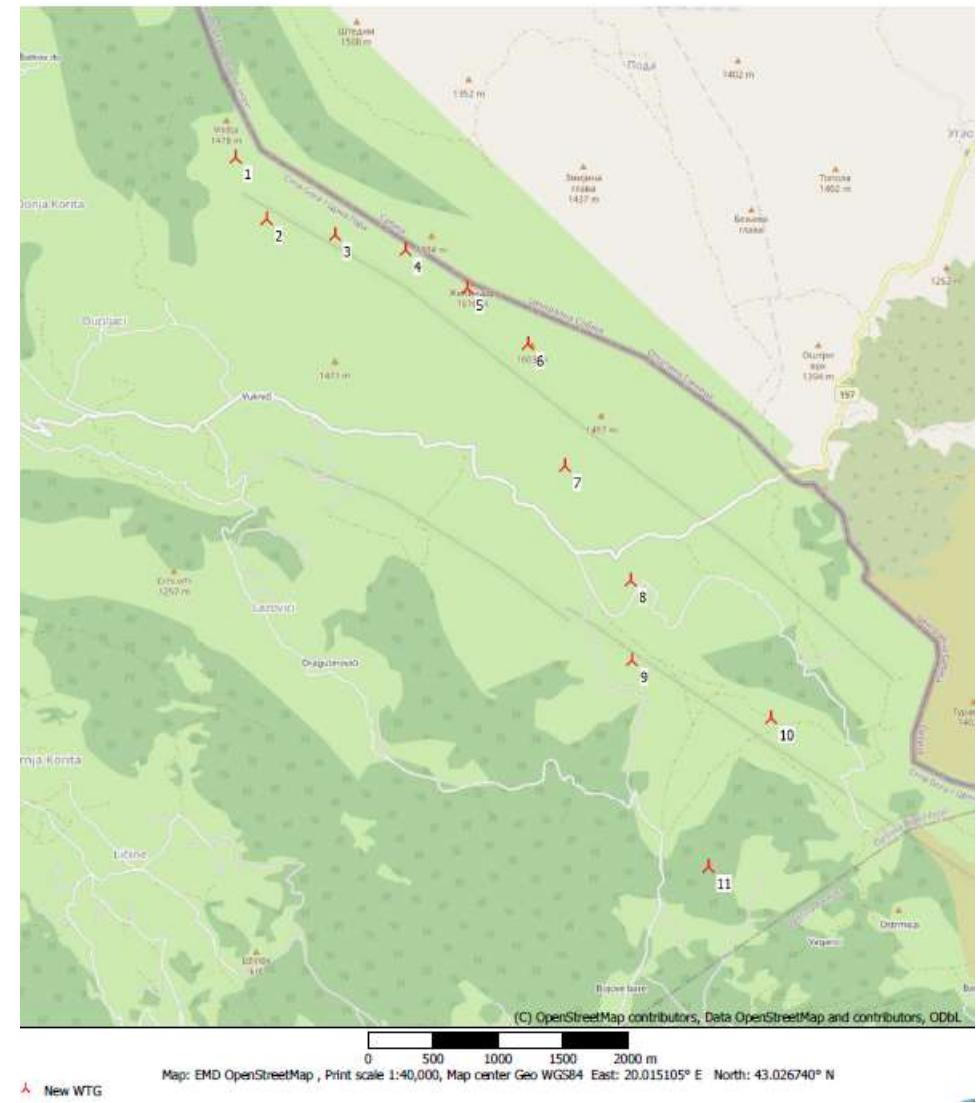
Number of wind generators : **11**

Unit power: **6.60 MW**

Total power: **72.60 MW**

Annual production: **198.851 GWh** (with 20% reduction)

The owner of the part of the land is the state of Montenegro, and part of the land is private property.



# Production - WindPro 3.6



## Calculated Annual Energy for Wind Farm

WTG combination	Result PARK [MWh/y]	Result-20.0% Free WTGs [MWh/y]	GROSS (no loss) [MWh/y]	Wake loss [%]	Capacity factor [%]	Mean WTG result [MWh/y]	Full load hours [Hours/year]	Mean wind speed @hub height [m/s]
Wind farm	248,563.8	198,851.0	253,182.6	1.8	31.2	18,077.4	2,739	7.9

<sup>a)</sup> Based on Result-20.0%

## Calculated Annual Energy for each of 11 new WTGs with total 72.6 MW rated power

WTG type	Links	Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Power curve		Annual Energy			
								Creator	Name	Result	Result-20.0%	Wake loss	Free mean wind speed
1 A	Yes		Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	115.0	EMD	(AM 0, 6.6MW) - 1.225 kg/m3	22,862.9	18,290	0.7	7.89
2 A	Yes		Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	115.0	EMD	(AM 0, 6.6MW) - 1.225 kg/m3	22,933.1	18,346	3.2	8.18
3 A	Yes		Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	115.0	EMD	(AM 0, 6.6MW) - 1.225 kg/m3	21,772.9	17,418	3.2	7.86
4 A	Yes		Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	115.0	EMD	(AM 0, 6.6MW) - 1.225 kg/m3	24,375.3	19,500	2.0	8.70
5 A	Yes		Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	115.0	EMD	(AM 0, 6.6MW) - 1.225 kg/m3	24,300.7	19,441	1.4	8.67
6 A	Yes		Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	115.0	EMD	(AM 0, 6.6MW) - 1.225 kg/m3	23,443.4	18,755	1.4	8.15
7 A	Yes		Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	115.0	EMD	(AM 0, 6.6MW) - 1.225 kg/m3	23,998.2	19,199	0.8	8.09
8 A	Yes		Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	115.0	EMD	(AM 0, 6.6MW) - 1.225 kg/m3	20,763.4	16,611	1.2	7.22
9 A	Yes		Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	115.0	EMD	(AM 0, 6.6MW) - 1.225 kg/m3	22,117.4	17,694	1.9	7.61
10 A	Yes		Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	115.0	EMD	(AM 0, 6.6MW) - 1.225 kg/m3	20,679.7	16,544	2.8	7.30
11 A	Yes		Siemens Gamesa	SG 6.6-170-6,600	6,600	170.0	115.0	EMD	(AM 0, 6.6MW) - 1.225 kg/m3	21,316.8	17,053	1.6	7.34