

WP

Bijela

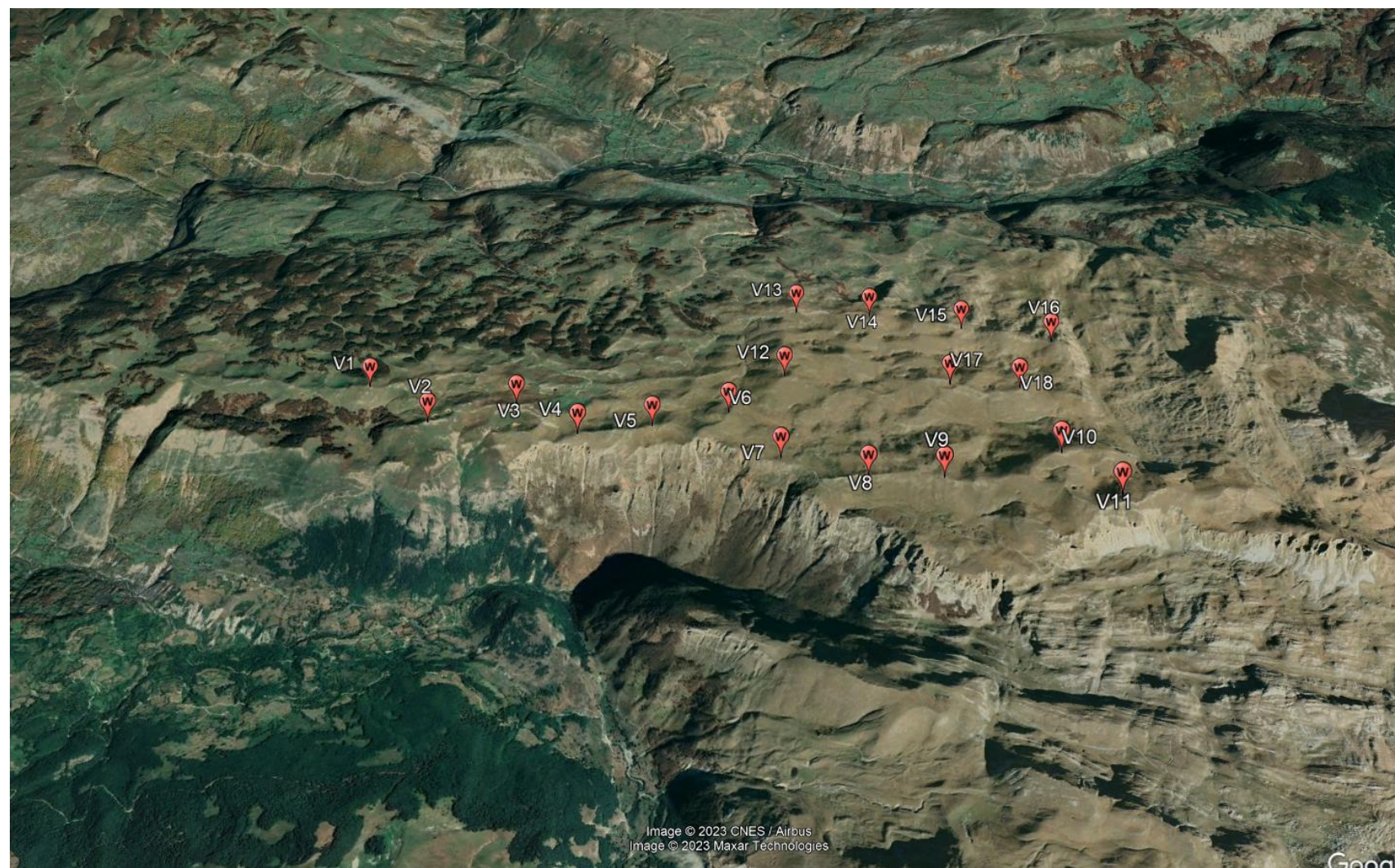


Location



Municipalities and largest cities and towns of Montenegro
Opštine i veći gradovi Crne Gore

**Municipality of Šavnik
Montenegro**

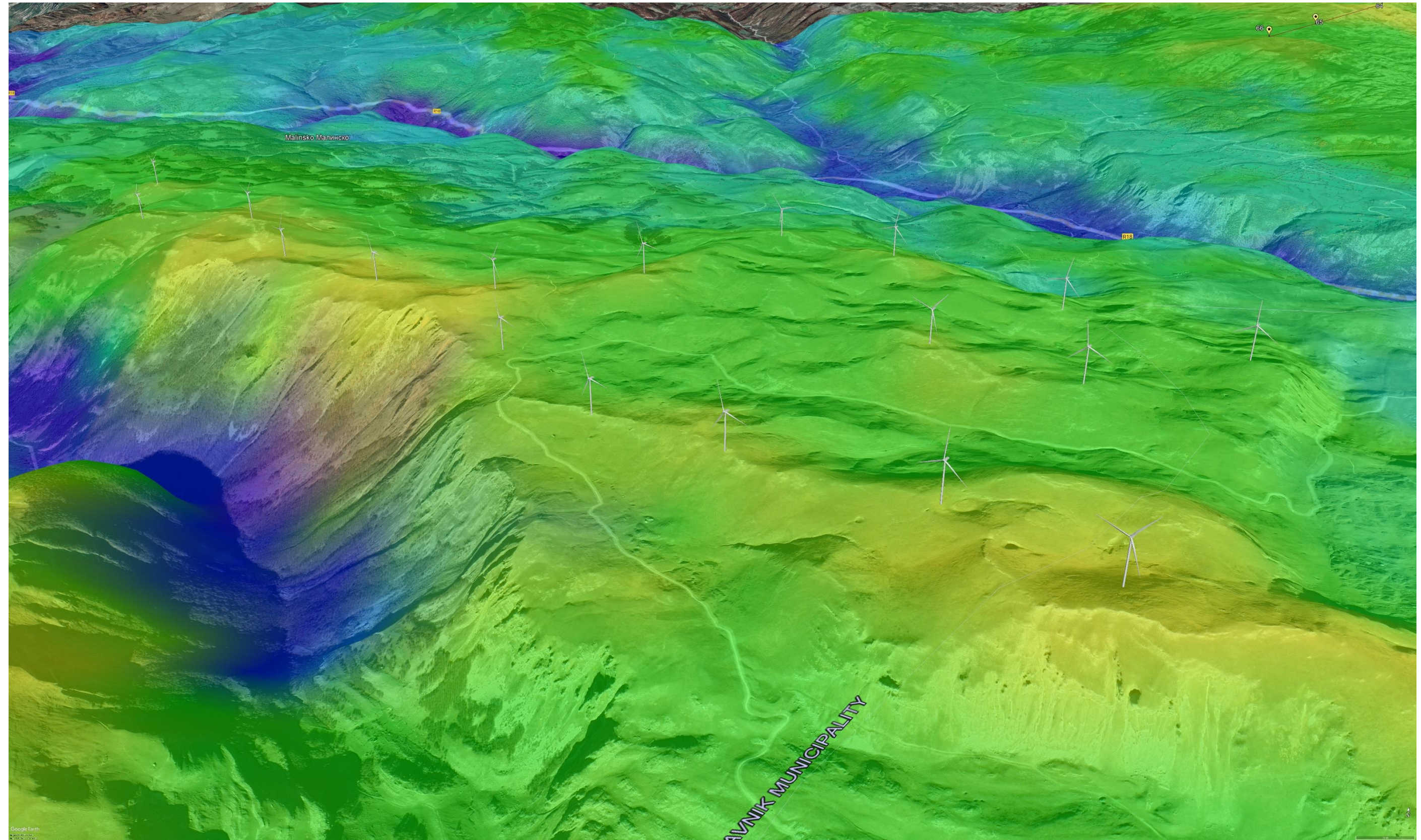
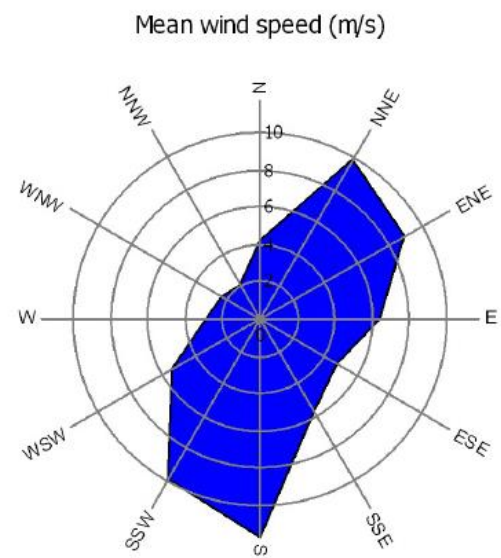
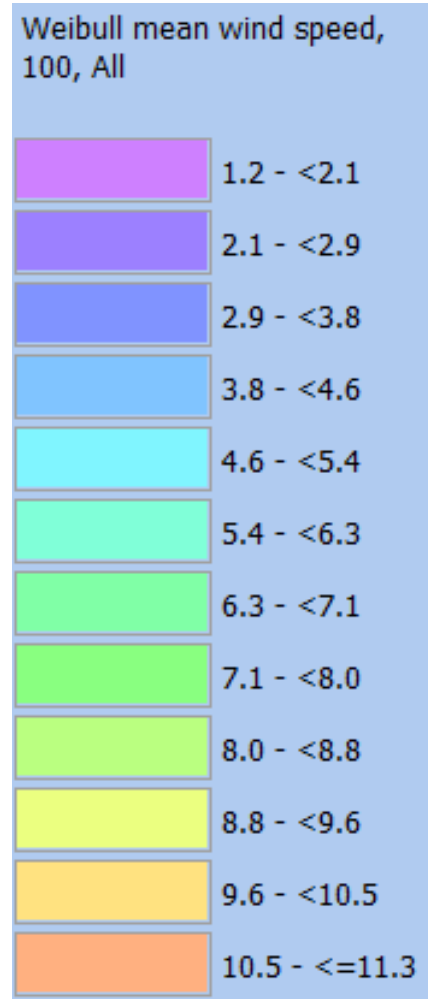


Latitude: 42°

Longitude: 19°

Elevation ≈ 1700 mnm

Wind potential at location



Wind generator

Manufacturer	Siemens Gamesa
Type/Version	SG 6.6-170
Rated power	6,600.0 kW
Secondary generator	kW
Rotor diameter	170.0 m
Tower	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
	<input type="button" value="Add"/> <input type="button" value="Remove"/>
Maximum blade width	4.50 m *)
Blade width for 90% radius	1.50 m *)



Map of Wind Power Plant

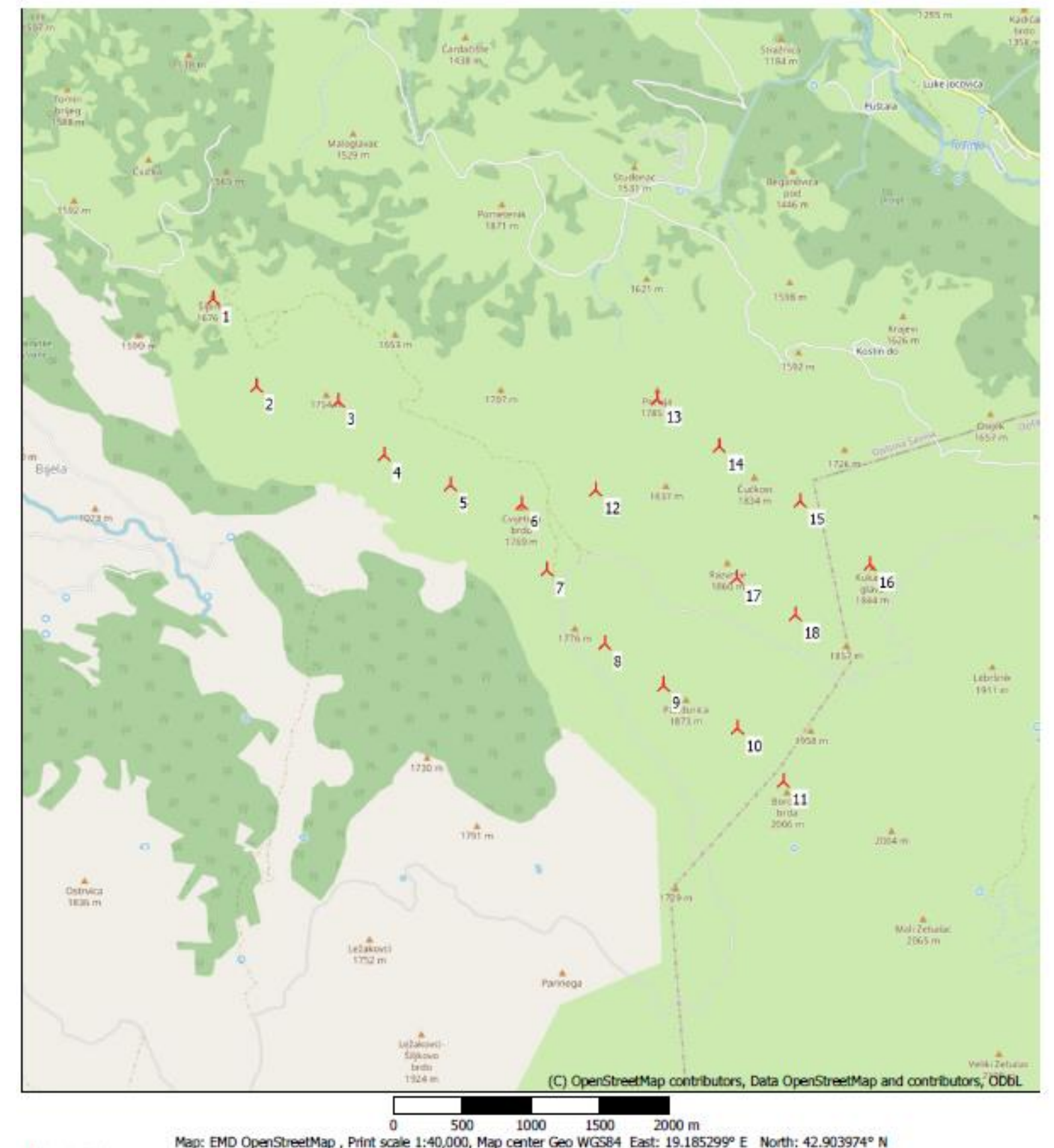
Number of wind generators: 18

Unit power: 6.60 MW

Total power: **118.80 MW**

Annual production: 332.685 GWh (with 20% reduction)

The owner of the part of the land is the state of Montenegro.



Production - WindPro 3.6



Calculated Annual Energy for Wind Farm

WTG combination	Result PARK [MWh/y]	Result-20.0% [MWh/y]	GROSS (no loss) Free WTGs [MWh/y]	Wake loss [%]	Specific results ^{*)}			
					Capacity factor [%]	Mean WTG result [MWh/y]	Full load hours [Hours/year]	Mean wind speed @hub height [m/s]
Wind farm	415,857.0	332,685.6	436,858.3	4.8	31.9	18,482.5	2,800	8.4

^{*)} Based on Result-20.0%

Calculated Annual Energy for each of 18 new WTGs with total 118.8 MW rated power

WTG type		Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Power curve Creator Name	Annual Energy			
Links	Valid Manufact.						Result	Result-20.0%	Wake loss	Free mean wind speed [m/s]
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	23,273.2	18,619	0.9	8.25
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	24,189.2	19,351	1.6	8.64
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	24,502.4	19,602	1.6	8.78
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	25,239.3	20,191	1.7	9.30
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	24,936.2	19,949	2.8	9.22
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	23,466.5	18,773	6.0	8.79
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	24,001.0	19,201	5.1	8.59
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	24,361.1	19,489	5.1	8.54
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	24,436.4	19,549	5.3	8.61
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	24,411.2	19,529	4.2	8.61
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	26,159.8	20,928	2.1	9.15
12 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	22,028.2	17,623	9.1	8.42
13 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	20,117.4	16,094	7.6	7.64
14 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	21,756.6	17,405	6.2	8.21
15 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	19,470.8	15,577	7.3	7.53
16 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	20,508.2	16,407	5.2	7.60
17 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	21,788.8	17,431	8.6	8.23
18 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	21,210.6	16,968	7.8	7.90

Project status

- Signed a thirty-year land lease agreement with the state of Montenegro;
- All contracts with private owners have been signed;
- Urban-technical conditions have been obtained;
- A measuring column and measuring equipment have been installed, on which the wind potential is already measured;
- Connection agreement signed with CGES;
- The recording of all the necessary backgrounds has been completed;
- The main project is being developed;
- Signed contract on the sale of the project with the company Alcazar

Crna Gora
VLADA CRNE GORE
Broj: 07- 011/23- 380/2
Podgorica, 27. jul 2023. godine

Na osnovu člana 10 Uredbe o Vladi Crne Gore („Službeni list CG“, br. 80/08, 14/17 i 28/18), Vlada Crne Gore je, 27. jula 2023. godine, bez održavanja sjednice, na osnovu pribavljenih saglasnosti većine članova Vlade, odlučila o **Predlogu urbanističko-tehničkih uslova za izradu tehničke dokumentacije za izgradnju objekta za proizvodnju električne energije iz obnovljivih resursa – vjetroelektrane, po Zahtjevu „VJETRO PARK BIJELA“ d. o. o. iz Podgorice, a u skladu sa članom 218c Zakona o planiranju prostora i izgradnji objekata („Službeni list Crne Gore“, br. 64/17, 44/18, 63/18, 82/20 i 86/22) i članom 2 Pravilnika o bližim kriterijumima za ocjenu zahtjeva za izdavanje urbanističko-tehničkih uslova za izgradnju objekata za proizvodnju električne energije iz obnovljivih izvora sunca i drugih obnovljivih izvora („Službeni list Crne Gore“, br. 114/22), koji je dostavilo Ministarstvo ekologije, prostornog planiranja i urbanizma.**

S tim u vezi, Vlada je donijela sljedeći

ZAKLJUČAK

Vlada je izdala Urbanističko-tehničke uslove za izradu tehničke dokumentacije za izgradnju objekta za proizvodnju električne energije iz obnovljivih resursa – vjetroelektrane, po Zahtjevu „VJETRO PARK BIJELA“ d. o. o. iz Podgorice, u skladu s članom 218c Zakona o planiranju prostora i izgradnji objekata („Službeni list CG“, br. 64/17, 44/18, 63/18, 82/20 i 86/22) i članom 2 Pravilnika o bližim kriterijumima za ocjenu zahtjeva za izdavanje urbanističko-tehničkih uslova za izgradnju objekata za proizvodnju električne energije iz obnovljivih izvora sunca i drugih obnovljivih izvora („Službeni list CG“, broj 114/22).

GENERALNI SEKRETAR
Boris Marić



Dostavljeno:
- Ana Novaković Đurović, ministarka ekologije, prostornog planiranja i urbanizma
- Komisija za ekon. pol. i finans. sistem
- Komisija za pol. sis. unut. i vanj. pol.

Odobrio: Mr Ilir Harasani, zamjenik generalnog sekretara Vlade

Obradio: Mr Kostja Jauković, samostalni savjetnik I

Kostja Jauković