

PV Power Plant Mali Izvor

50MWac + 5MW/20MWh BESS

Project information

May 2025

ENERGY NETWORK



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- Project Overview: PVPP Mali Izvor

Project Description

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srpski | deutsch

Construction of 50 MW Solar Power Plant Mali Izvor Planned Near Zajecar



Illustration (Photo: Shutterstock)

The City of Zajecar has put the detailed regulation plan for the construction of a solar photovoltaic power plant in the cadaster municipality of Mali Izvor up for an early public review.

The project was commissioned by Energy Network d.o.o. from Belgrade, and the plan was

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Weather | Weather forecast

PVPP Mali Izvor is located 20 km south of city Zaječar.

Rated power of PVPP Mali Izvor is **50 MW_{ac}**.

BESS – Battery Energy Storage System up to **5MW/20MWh**

Capital Expenditures estimated app. **EUR 40 million**

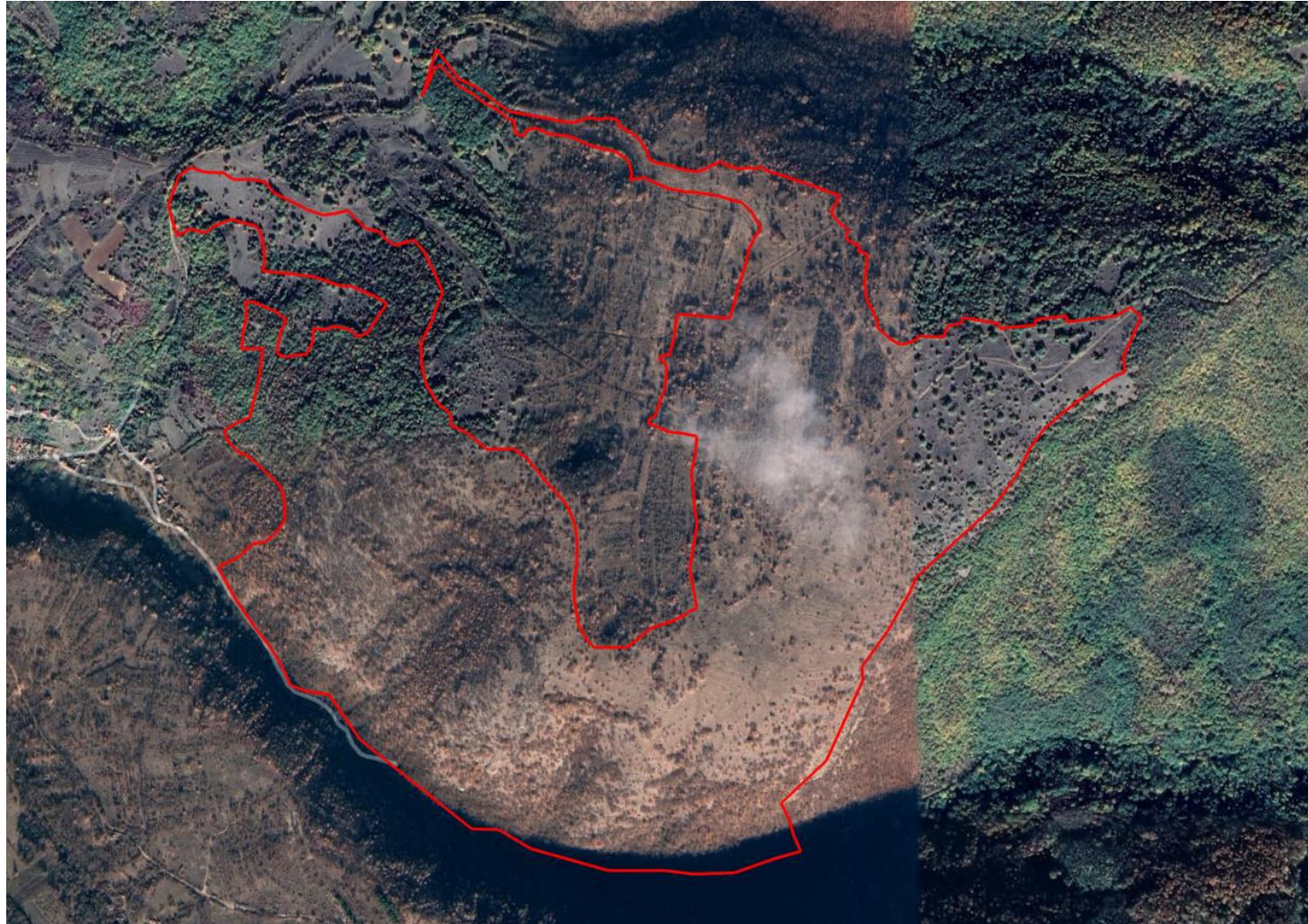
ENERGY NETWORK DOO BEOGRAD is a Serbian project SPV established to undertake development works

Construction start expected in Q2/Q3 2026

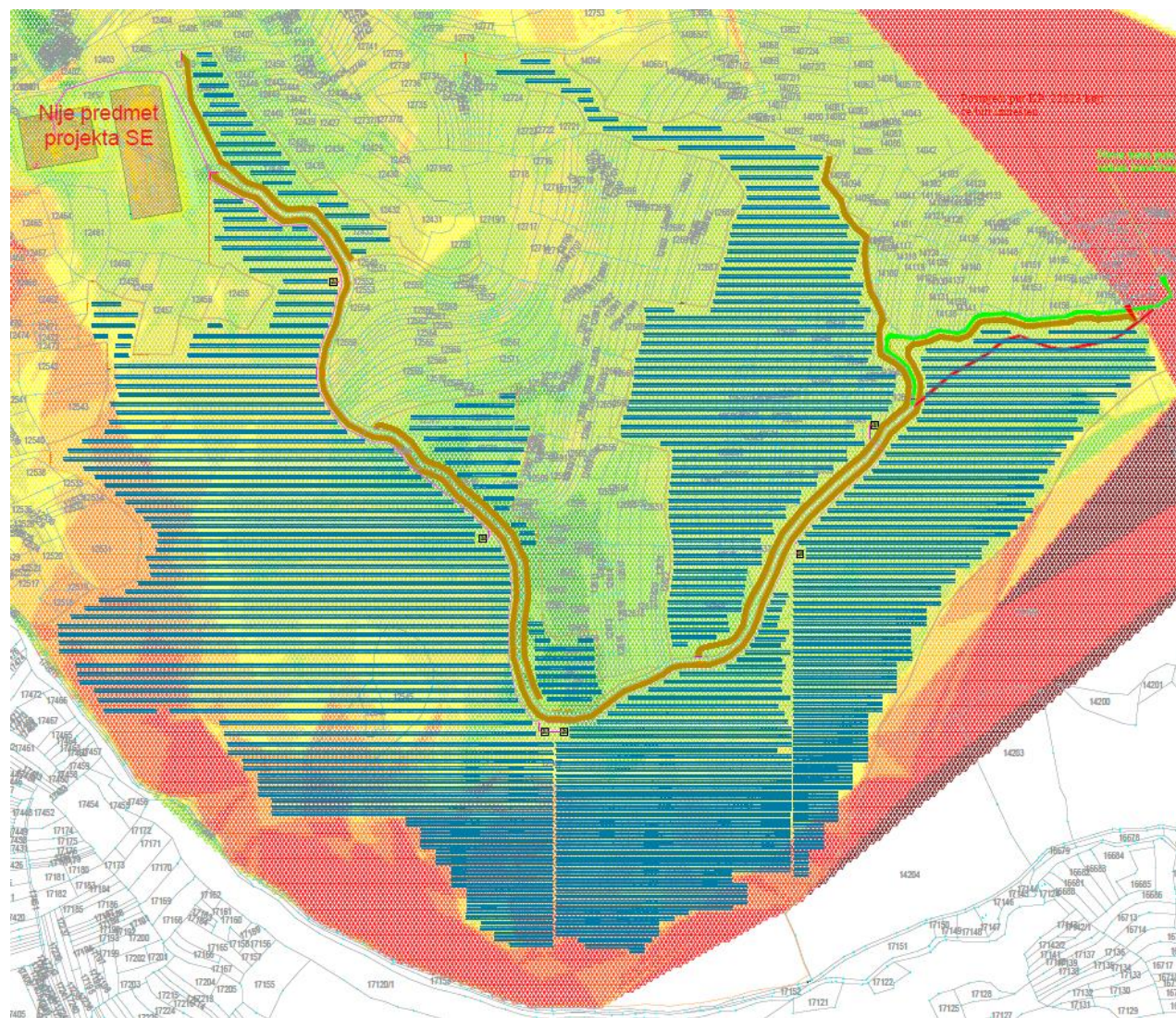


Site Visit Pictures of the Project Area

Site Location



PV preliminary layout



Estimated Energy Production in 10th year
= 91244 MWh/year

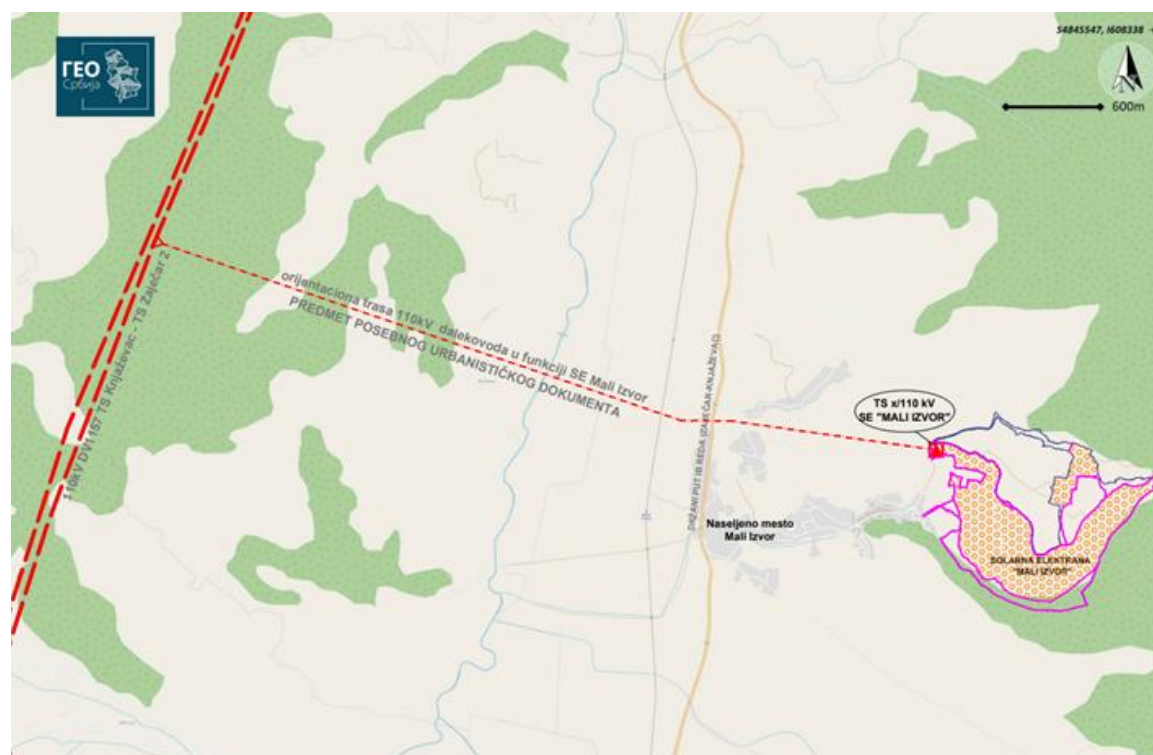
Pdc= 65MWp
Pac=50MW

Balances and main results

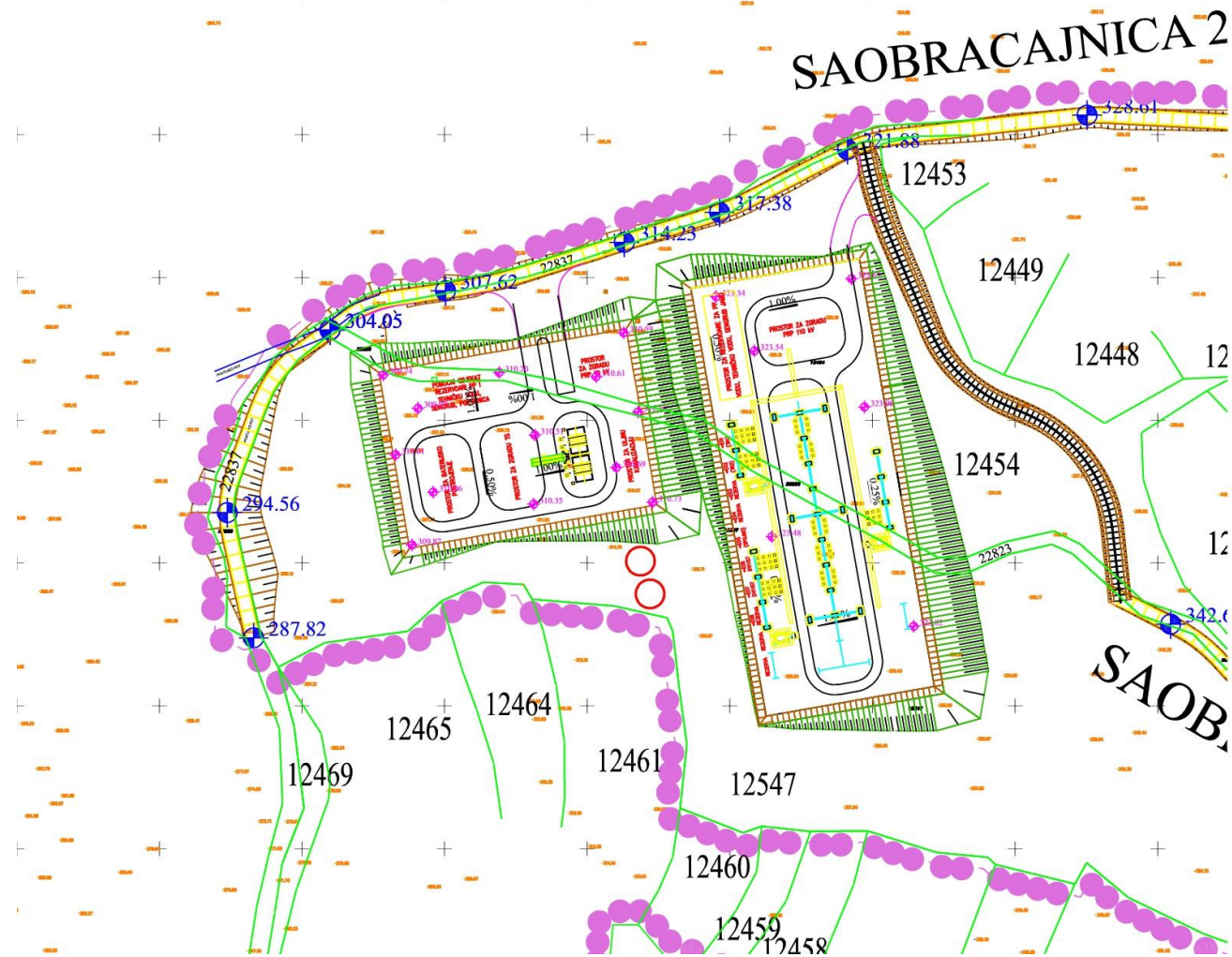
	GlobHor kWh/m ²	DiffHor kWh/m ²	T_Amb °C	GlobInc kWh/m ²	GlobEff kWh/m ²	EArray MWh	E_Grid MWh	PR ratio
January	44.5	25.47	-0.12	71.2	64.1	3602	3456	0.848
February	64.3	31.89	2.02	92.9	86.3	4788	4625	0.870
March	107.1	41.94	6.72	136.9	129.6	7092	6455	0.824
April	138.3	61.87	11.48	151.7	143.3	7854	7608	0.876
May	173.5	81.44	16.28	172.8	163.3	8897	8625	0.872
June	190.4	73.16	19.94	183.2	173.2	9331	9048	0.863
July	189.6	82.21	22.61	184.2	174.0	9304	9025	0.856
August	173.3	73.90	22.56	184.6	174.7	9227	8960	0.848
September	122.4	60.76	16.67	144.7	136.5	7310	7090	0.856
October	83.9	39.70	11.59	115.6	108.1	5805	5611	0.848
November	47.3	24.86	6.61	74.1	66.9	3642	3404	0.803
December	34.9	19.77	1.43	57.4	50.5	2816	2457	0.748
Year	1369.5	617.00	11.54	1569.3	1470.6	79667	76363	0.850

Grid connection

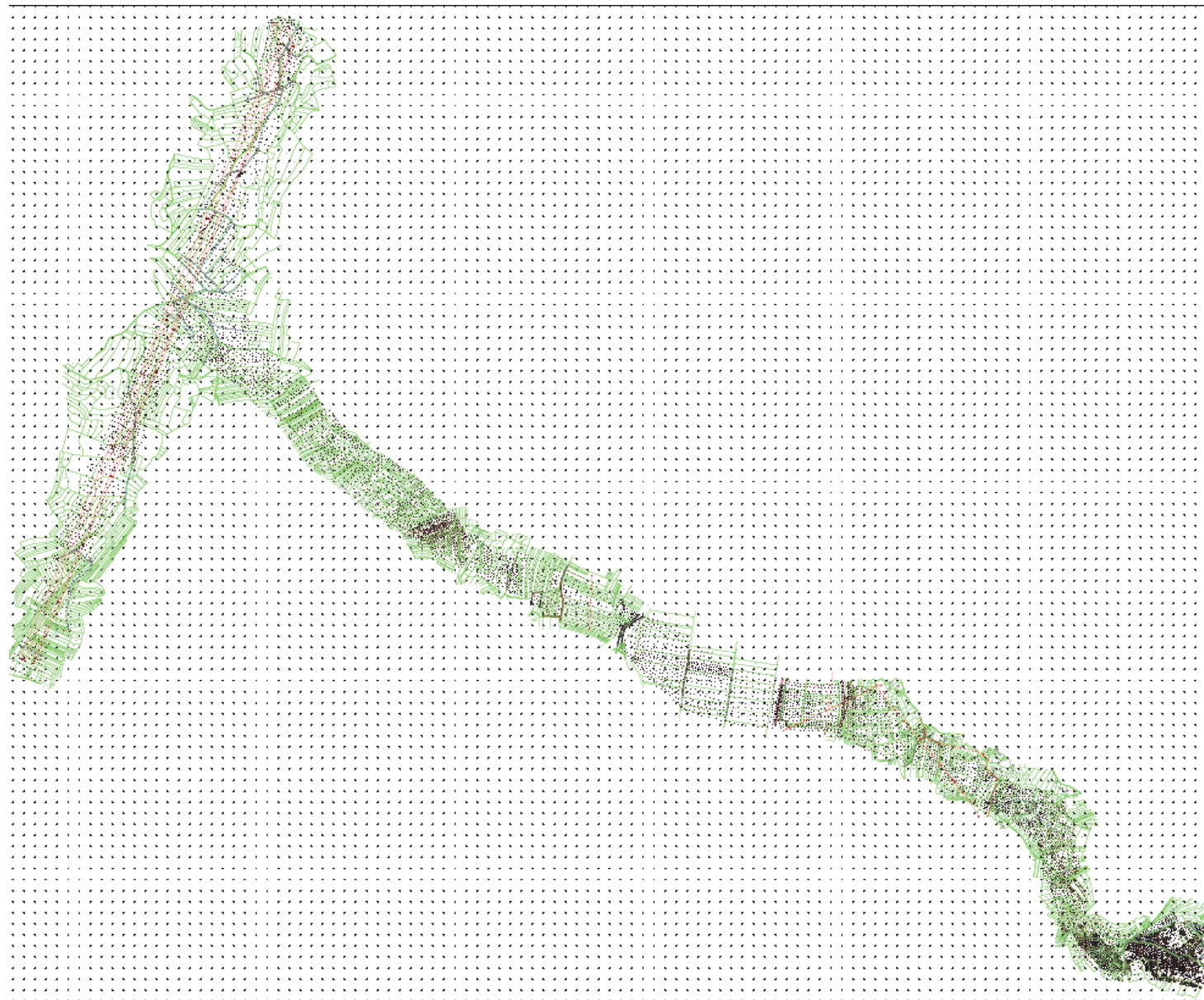
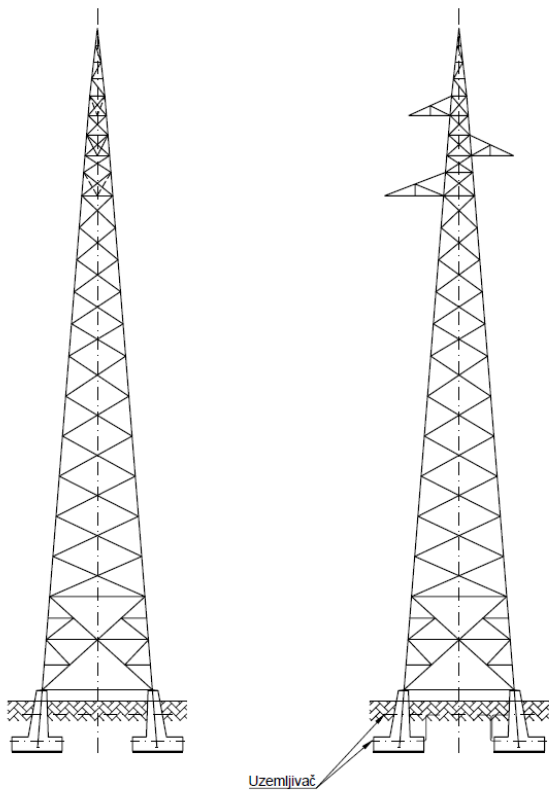
- PVPP will be connected to the existing OHTL 110kV DV1157 between TS Knjazevac and TS Zajecar 1 (cca. 6,5km)



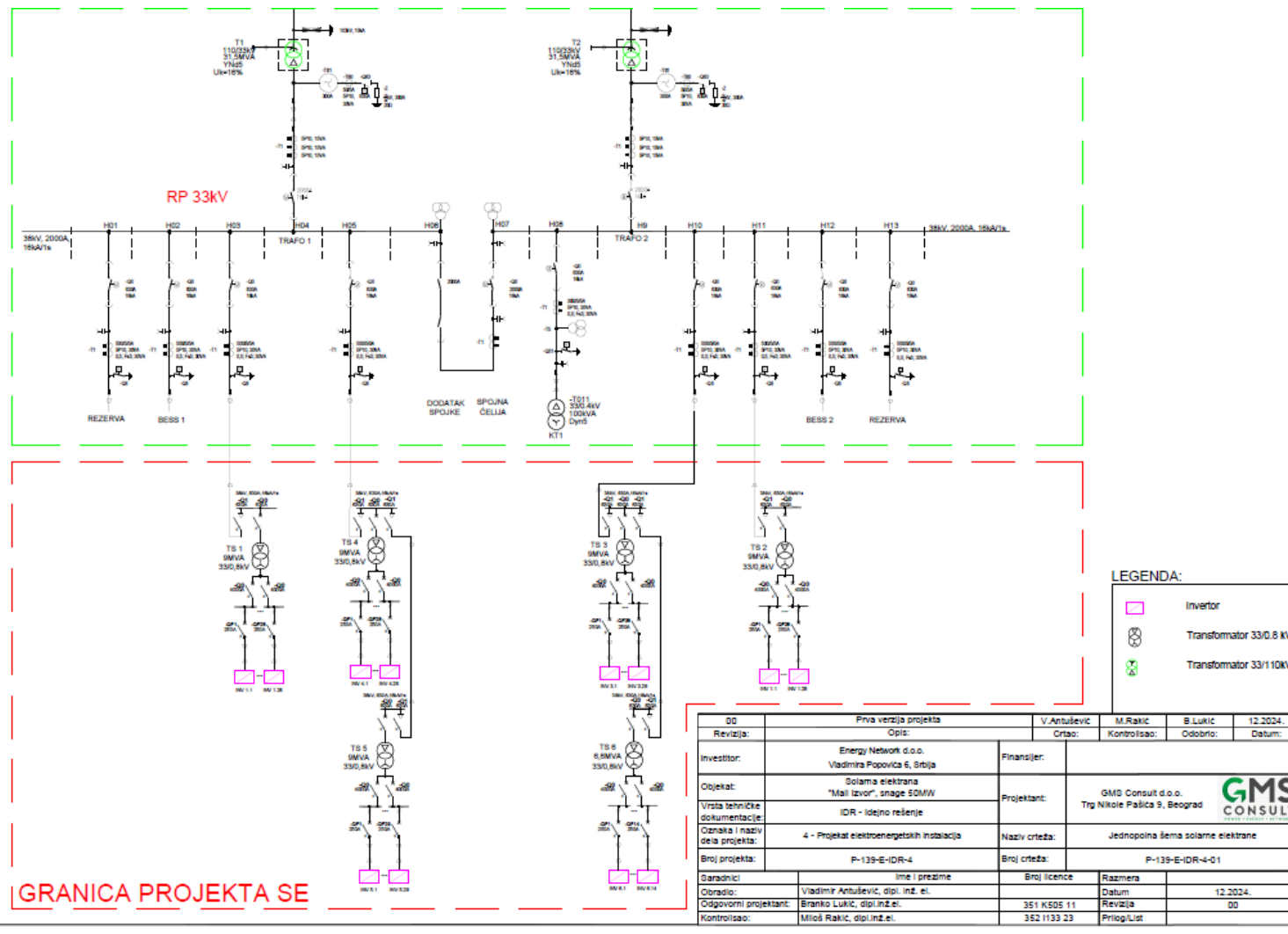
110kV Transformer station and 110kV Air Insulated Switchgear



110kV OHTL rute



Single Line Diagram



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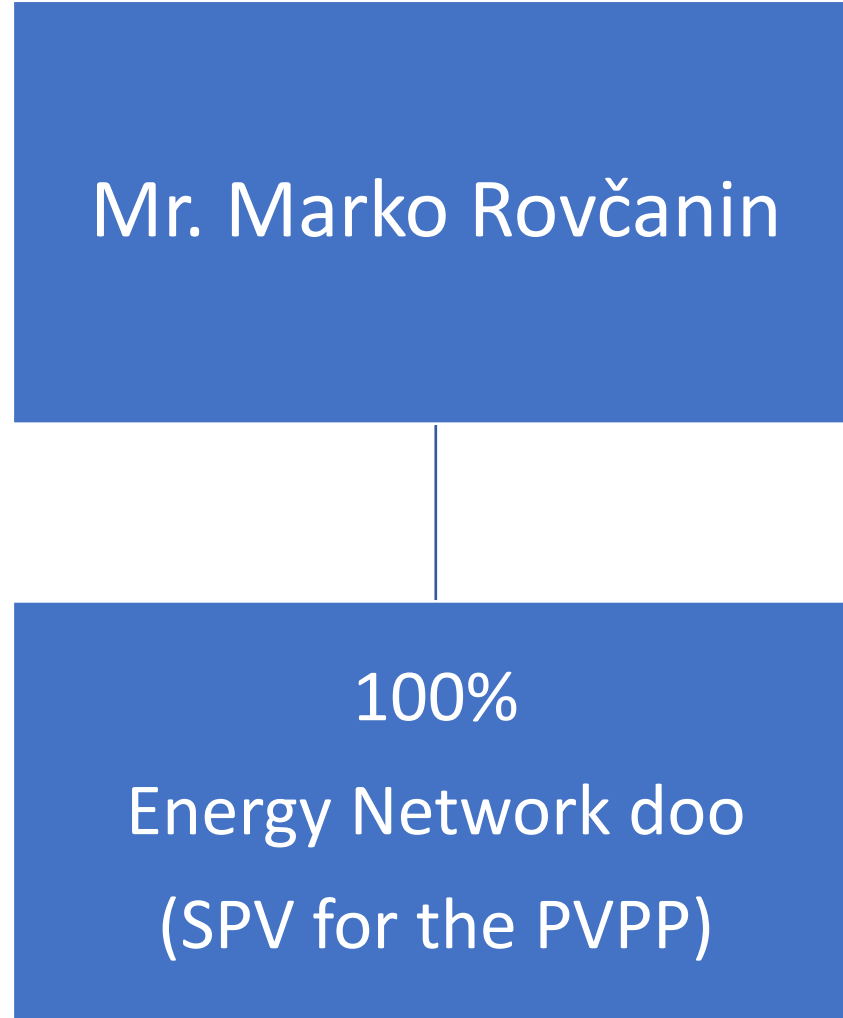
Project Development

Finalized project activities	Current and next activities	After selection of strategic partner (Phase I)	After selection of strategic partner (Phase II)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Topographic survey	<input type="checkbox"/> Urban Planing for 110kV OHTL	<input type="checkbox"/> Geotechnical study	<input type="checkbox"/> Application process for interconnection permits
<input type="checkbox"/> Spatial Planning (PDR) – adopted in May 2022	<input type="checkbox"/> Environmental Survey	<input type="checkbox"/> Location Conditions	<input type="checkbox"/> Financial model
<input type="checkbox"/> High Level Design and PV yield analysis (PVSyst)		<input type="checkbox"/> Preliminary/Basic Design	<input type="checkbox"/> Detailed technical/electrical design plans
<input type="checkbox"/> Securing of the land (the Investor - SPV became the owner of the land April 2022 (cca. 72ha))		<input type="checkbox"/> Energy Permit	<input type="checkbox"/> Review of main equipment supplier, main design and BoP by Independent Engineer
<input type="checkbox"/> Grid Connection Study 50MW (50MW+5MW/20MWh) (23.04.2024.)		<input type="checkbox"/> ESIA Study	<input type="checkbox"/> Signing of PPA with the off-taker (Energy Trading company)
<input type="checkbox"/> Grid Connection Study (received on 23.04.2024.)		<input type="checkbox"/> Final Design	<input type="checkbox"/> Launch procurement process for EPC
<input type="checkbox"/> Bank Guarantee 1,25M€ (21.06.2024.)		<input type="checkbox"/> Construction Permit	<input type="checkbox"/> Launch debt financing process with multilateral and commercial banks
<input type="checkbox"/> Grid Connection Agreement (signed)			<input type="checkbox"/> Financial close
<input type="checkbox"/> Bank Guarantee 520k€			<input type="checkbox"/> Initiate construction
<input type="checkbox"/> Obtained ToR for Design of 110kV OHL, 110kV Switchyard, 110/x kV SS from EMS			
<input type="checkbox"/> Conceptual design (PV plant, TS/SS, OHTL)			

Section 2

- **Investor Overview**

Ownership structure



Section 3

- **Investment Opportunity**

Investment Opportunity

Why invest?

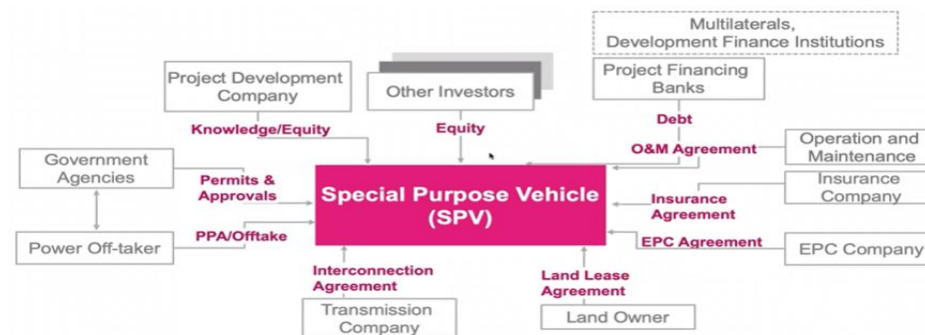
- ✓ An opportunity to co-invest with project developer:
 - ✓ ENERGY NETWORK DOO BEOGRAD, a committed project developer in Serbia with substantial project management and development experience
- ✓ Significant PV resource
- ✓ Land acquisition finalized – SPV is the owner of the land
- ✓ Grid Connection Agreement with EMS signed
- ✓ Bank Guarantees deposited (1,25M€+0,52M€)
- ✓ Access to one of very few „real“ utility scale PV projects in Serbia

Who are we looking for?

- ✓ Strategic partner experienced in development and operation of large scale solar PV projects
- ✓ Appetite to invest in Serbia

Process

- ✓ ENERGY NETWORK DOO BEOGRAD want to bring on board the Investor for the construction of the PV plant Mali Izvor




Contact

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