



EMAS BUSINESS CONSULTING

YOUR STRATEGIC PARTNER
IN GREEN ENERGY PROJECTS

BESS

STANDALONE

Project Location:

DRAGĂNEȘTI-OLT, OLT COUNTY

Energy for the future, available today.
Sustainable investment, solid returns.



476 MWh
STORAGE CAPACITY



4,66 ha
LAND AREA



2 cycles/day
ANNUAL CYCLES (AVG.)



**SUSTAINABLE
PROJECT**

**A SOLID OPPORTUNITY,
READY FOR THE FUTURE**

Integrated energy storage project, designed to generate long-term value in a rapidly expanding market.



PROJECT LOCATION

DRĂGĂNEȘTI-OLT, OLT COUNTY, ROMÂNIA

Strategic location for an electricity energy storage project



GENERAL OVERVIEW

The site identified for the BESS project is located in Drăgănești-OLT, OLT County, in an area with easy access to both the electrical grid infrastructure and the national road network.



LOCATIE:

Drăgănești-OLT, OLT COUNTY



LAND AREA :

4,66 ha



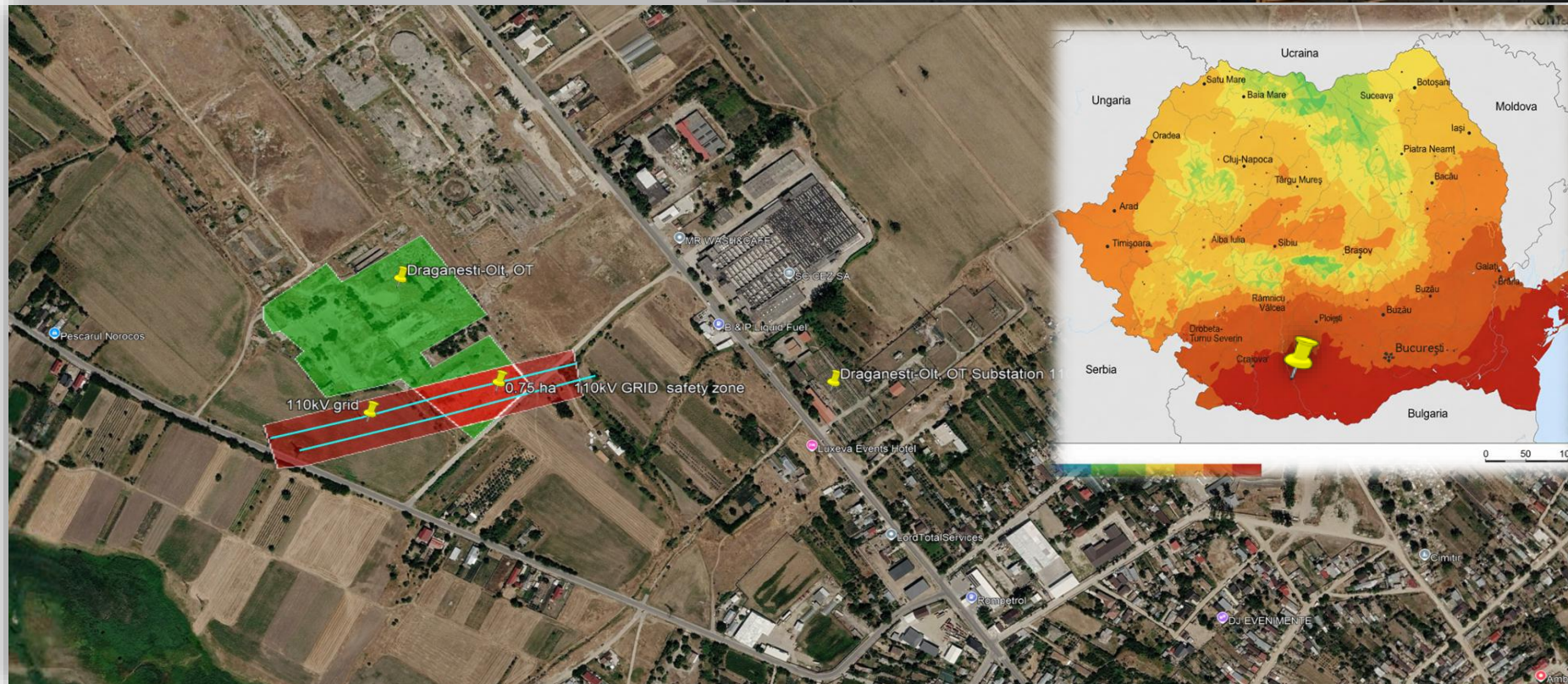
STORAGE CAPACITY :

97MW/476MWh



GRID CONNECTION :

110 kV OHTL Drăgănești Olt – Caracal Sud Line Tap-In/Tap-Out at Proposed Tower No. 84A/98A



EXCLUSIVE ACCESS

County Road DJ546



GRID PROXIMITY

110kV Overhead Transmission Line (OHL) and 110/20kV Drăgănești-OLT Substation



LAND STATUS

Land located outside the built-up area (extravilan), available for energy development



BESS POTENTIAL

Ideal location for utility-scale battery energy storage systems (BESS)

INVEST IN THE FUTURE OF ENERGY

BATTERY ENERGY STORAGE SYSTEM (BESS)

DRĂGĂNEȘTI-OLT, OLT COUNTY

A strategic electricity energy storage project designed to enhance grid flexibility, balance the power system, and support Romania's energy transition.



SMART STORAGE



ATTRACTIVE RETURNS

PROJECT HIGHLIGHTS



Storage Capacity
476 MWh / 4h



Land Area :
4,66 ha



Average Annual Cycling
2 cycles/day



Charging Price Range
€0 ÷ 60 /MWh

ESTIMATED ANNUAL REVENUES



■ Battery Charging
Cost ~11,2mil. €/year
(27,4%)
■ BESS
~ 29,67 mil. €/ year
(72,6%)

(Combined Scenario)

FINANCIAL PERFORMANCE



Project IRR
~19,49%



Simple Payback
~4 years



Payback (Discounted)
~4.5 years

TOTAL INVESTMENT-CAPEX



~ € 71,14 million

BESS + Grid Connection
+ EPC + Contingency

BESS REVENUE STRUCTURE – MULTIPLE VALUE STREAMS



BALANCING MARKET
800 ÷ 1000 €/MWh
(Servicii de echilibrare)



DAM ARBITRAGE
~ 100 €/MWh
(Arbitraj ziua anterioara)



IDM ARBITRAGE
~ 200 €/MWh
(intraday trading)

TRANSACTION PROCESS



NDA



Detailed
Information



DUE
DILIGENCE



Indicative
Offers



SPA & Closing

A STRONG OPPORTUNITY, READY FOR THE FUTURE

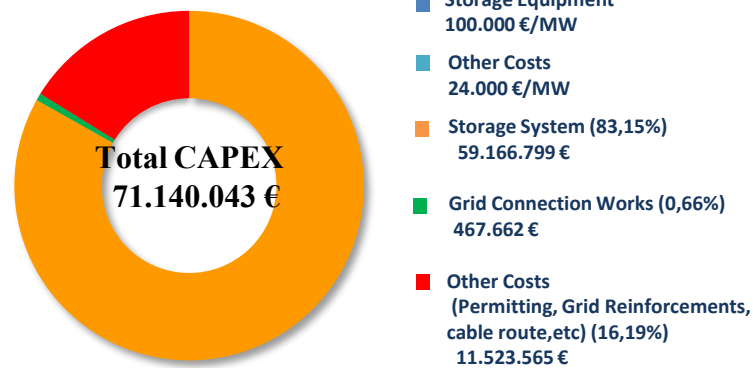
High-quality assets, attractive returns,
and significant growth potential
in a rapidly expanding market.



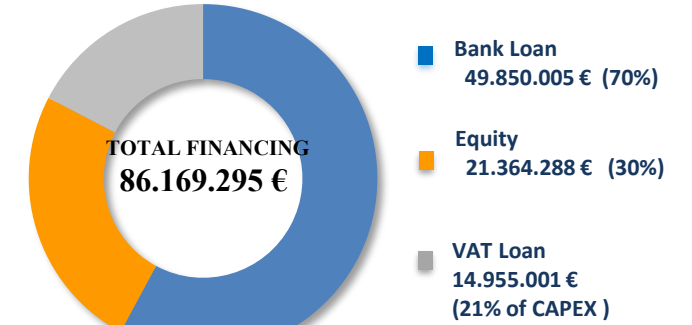
1. PROJECT ASSUMPTIONS

Project Name	BESS standalone
Location	Drăgănești-OLT, OLT
Installed Storage Capacity	476 MWh
Charging Price Range	0-60 €/MWh
Charge/Discharge Cycles/Day	4h
Annual BESS Degradation	3% p.a.
Base Electricity Purchase Price	70€/MWh
Balancing Market Price	350€/MWh
Day-Ahead Market (DAM) Price	90€/MWh
Intraday Market (IDM) Price	120€/MWh
Inflation	3% p.a.

2. PROJECT COSTS (CAPEX)



3. CAPITAL STRUCTURE



4. FINANCIAL ASSUMPTIONS

Equity	21.364.288 €	30%
Bank Loan	49.850.005 €	70%
Loan-to-Value (LTV)	70%	
VAT Loan (21% of CAPEX)	14.955.001 €	
Loan Interest Rate	2,68%	
Bank Margin	4,00%	
Loan Tenor	10 years	
Grace Period	12 moths	
TOTAL term	108 moths	
Equity contribution	30%	
Debt ratio	7,20%	
Profit Tax	16%	
WACC	8,60%	

5. KEY FINANCIAL INDICATORS

 Net Present Value (NPV) 75.035.271 €	 Payback Period 4 ani
 IRR Project 19,49%	 Payback Period (Discounted) 4,5 ani
 IRR Equity 34%	 LCOS (Levelized Cost of Storage) 50€/MWh

6. FINANCIAL SUMMARY

Annual Revenue (1 st Year)	29,67 mil €
Cumulative Revenue (20 Years)	593,51 mil €
Annual O&M Cost	1.704.810 €
Net Present Value (NPV)	75.035.271 €
IRR Project	19,49 %
IRR Equity	34 %
Payback Period	4 ani
Inverter Replacement (12 th Year)	3,2 mil €



Sustainable Project



Predictable Revenues



Reduced Risks



Attractive Profitability



Additional Investment Opportunities



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