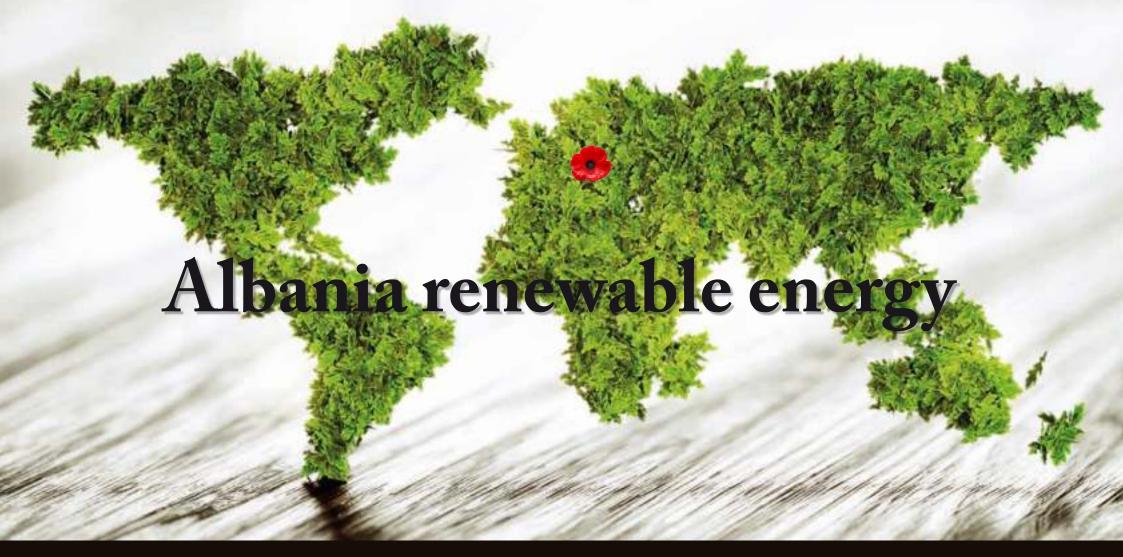
Project for the strengthening and the development of initiatives in the RES field.





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CONFIDENTIAL

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Detailed materials will be available on the data-room.



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Stakeholder

"Supercapital is the firm specialist in the creation of valuable assets."

Supercapital is sponsoring the new venture for the development of projects deploying investments in the renewable energy sector in Albania, being ready to approach the next market opening.

The investments are studied to secure a long-term value through the exploitation of the 3 main renewable energy source: Hydro, Solar and Wind.

The value will be reached with the operation of an infrastructure that gives its contribution to the economic improvement of a nation in constant growth as Albania is.

The team established by Supercapital is capable to implement and manage the infrastructure for the duration of its entire timelife, and to guarantee the creation and consolidation of the valuable assets.

The low investment risk is closely related to the technical capacity of the team, the duration of exploitation of the sources and the knowledge in the field of action.

The purpose is to give life to a New Energy Company to implement RES investment and to operate in the next Energy Open Market in Albania benefiting of the proficiency by Italy experience.

Hydro+Solar+Wind → Superpower





Mission

Our aim is to contribute on creating a sustainable world. We are passionate about contributing to a world, which does not depend on power from fossil fuels.

Our mission is to promote the adoption of renewable technology to preserve our environment and provide an environmentally friendly, sustainable power supply.

We remain focused on innovation driving with high efficiency the production plants, continually improving the quality and environmental friendliness of our production facilities.

The risk of breaks in supply chain ask the companies to rethink the entire methodology of production; energy is an important part of that.

We are committed to make available different kind of solutions that overcome these risks.

We are committed to comply with international safety, environment and quality standards at all times.





Management

An effective workgroup, able to handle complex tasks by treating processes in detail.

Competence, rapidity and efficiency are the characteristics that distinguish the working group.

A team structured to track workflows from the conception, design, construction to the management, people conscious that team makes the difference.



Stefano CAMPOCCIA
President
Banking & Finance
Investment Funds



Massimiliano RUBIN Vice President Marketing External Relations



Pasquale PESCE CEO Corporate, Project Finance Private Equity, Real Estate



Nicola BARBIERO CFO Risk Management Investment Funds



Enrico VIVIANI COO Engineering Projects Assessment



Paolo RUBIN
Head of Business



Irene PIRELLI MARTI
Head of Legal



Adnand MAHMUTI Head of Partnership



Behaudin DOBIHead of Land Acquisition



Arjola KRASNIQIHead of Achitecture



Anius KOTORRI Head of Technology





Country

Albania shares a border with Greece to the south/southeast, Macedonia to the east, Kosovo to the northeast, and Montenegro to the northwest.

Western Albania lies along the Adriatic and Ionian Sea coastlines. Albania's primary seaport is Durres, which handles 90% of its maritime cargo.

Situated in the southwestern region of the Balkan Peninsula, Albania is characterized by a distinct mountainous landscape (the average altitude of Albania is 700 meters above the sea), but flat along its coastline with the Adriatic Sea. Climate is mild, temperate; cool, wet winters; dry, hot summers. Area is 28,748 sq. km. Major cities are: capital Tirana (858,262), Durres (201,519), Vlore (141,513), Elbasan (126,703) Shkoder (102,075). Population (2019 est.) is 2,938,938, population growth rate (2019 est.) is 0.14% and the median age is 36.4 years.

Based on the structure, composition and shape of the landscape, four physical-geographic zones are distinguished: Alps, Central Mountainous Region, Southern Mountainous Region and Western Lowland. The highest peaks are those in the Alps and the Eastern Mountains (Korabi 2751 m) and the lowest peaks are located in the western coast area. The landscape is intersected by the valleys of Vjosa, Devoll, Osum, Shkumbin, Erzen, Mat and Drin rivers, eastward and westward, which enable the connection of Adriatic Sea with the internal part of the country and the Balkans.

The country is linked with the rest of the world via land, sea and air routes.

Government

Type: Parliamentary democracy.

Branches: Executive--President (chief of state), Prime Minister (head of government), Council of Ministers (cabinet). Legislative--140-seat unicameral People's Assembly or Kuvendi Popullor elected by regional proportional vote; all members serve 4-year terms.

Judicial--Constitutional Court, High Court, multiple district and appeals courts.

Suffrage: Universal at age 18.

Economy

Real GDP growth: 4.32%, Inflation rate 2.1% (Albanian Institute of Statistics), Unemployment rate (Albanian Institute of Statistics) is 12.4% (as of September 2018). Natural resources: oil, gas, coal, iron, copper and chrome ores.



Renewable energy

- The Government in its National Economic development plan 2013- 2020 has set Renewable Energy as the key priority, for developing a "Green Energy" driven economy.
- Incentives, governmental support and facilitation of investments.
- High quality experienced engineering and technical workforce, particularly in the hydropower sector. Albania graduates students on 2017 was 35,173, number increased by 11% compared with 2016.
- Proven record of successful foreign investments in the sector AYEN AS Energy, ENSO Hydro Energy, ETEA, Schneider Electric Sas, Amadeus Group, CNR (Compagnie Nationale du Rhone), VERBUND AG, Essegei S.p.A, San Leon Energy, IDROENERGIA ALBANIA SHPK.

HYDRO

Represent the only significant exploited renewable energy resource in the country, achieving the 95% of the total installed capacity of electricity production with around 2,100 MW (actually the 48% of the estimated hydro potential).

SOLAR

The country has the high number of sunshine hours per year in Europe, with an energy irradiation at 1,461 KWh/m², and some areas at the highest range of 1,753 KWh/m².

The expected capacity is up to 2,378 MW. Actually the country has the first 10 MW installed with a target of about 490 MW within the 2030.

WIND

Albania wind capacity is estimated in about 7,400 MW. The averange annual speed measurement in the windy areas is between 5.8 and 7 m/s with a load factor up to 25%. Power is not exploited at the moment; the target within the 2030 is up to 150 MW.



References

Albania Energy Association (AEA): www.aea-al.org

Energy Community Ministerial Council adopts Renewable Energy 2020 targets: www.energy-community.org

Enti Rregulatori I Energjise (ERE): www.ere.gov.al

National Agency of Natural Resources: www.akbn.gov.al

Electricity Data - Total Electricity Installed Capacity: www.eia.gov

Institute of Energy for South Est Europe: www.iene.eu

Ministry of Energy and Industry, Albania: http://www.energjia.gov.al/en

The World Bank in Albania: www.worldbank.org/albania

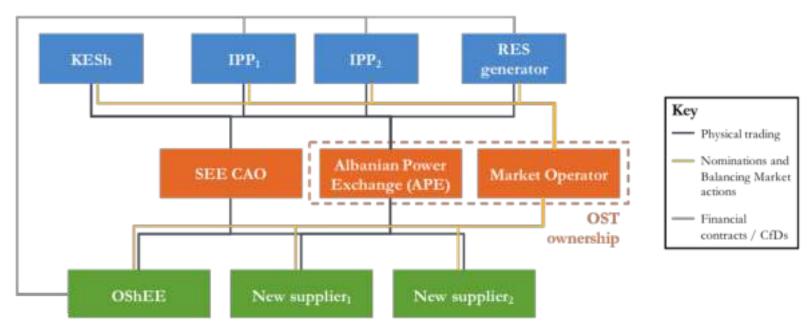






Market coupling and open market activities in the energy sector are in progress by the regional integration and the new strategic framework based on two main topics:

- 1 market liberalisation and regional integration with the european energy market;
- 2 development of the national energy and climate plan, foreseen by the european union accordingly with the Paris agreement.



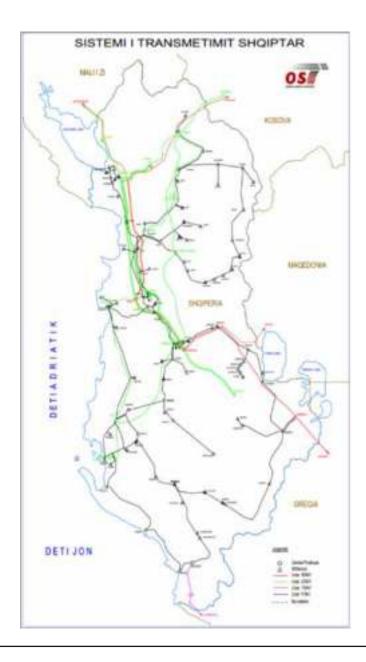
Market structure, by national energy strategy for Albania 2030



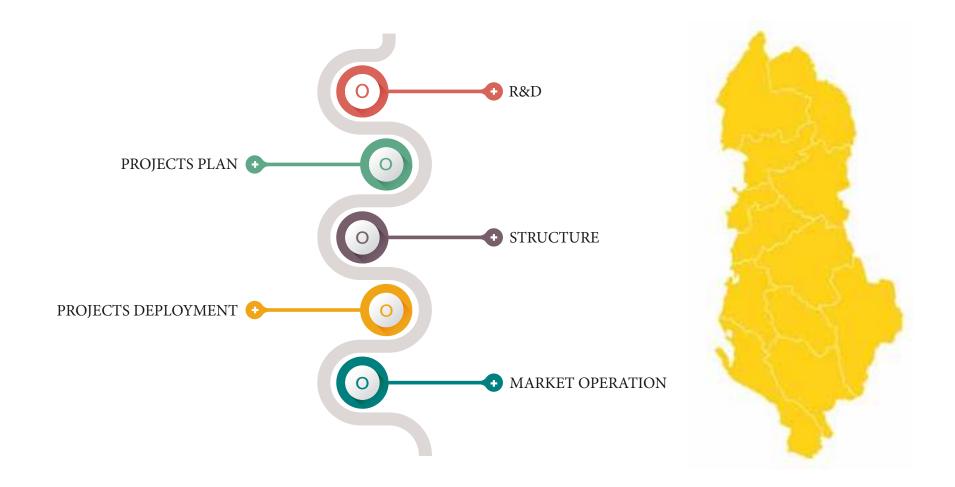
TRANSMISSION LINE NETWORK

Albania cross border interconnection established with Kosovo, Montenegro, Greece and under development with the Republic of Macedonia.

Is under study the possible Albanian interconnection with Italy by TERNA MON.ITA PROJECT, the undersee cable between Montenegro and Italy.









HYDRO

PAMBAD PROJECT 1,145 MW BENCE TEPELENE PROJECT 8,527 MW PROJECTS LICENCED READY TO BUILD

SOLAR

FIER (40 HA OF NO PRODUCTIVE LAND) SECURED TO DEVELOP UP TO 22 MW. THE MINISTRY OF INFRASTRUCTURE & ENERGY IS UNDERLINING THE NEW LICENSING PROCESS.

XHAFZOTAJ (100 HA OF NO PRODUCTIVE LAND) UNDER REQUEST.

WIND SOLAR HYBRID SYSTEM

EAGLE 1, STUDYING THE SITE – PUKE REGION, FOR A 30 MW WIND FARM. THE MINISTRY OF INFRASTRUCTURE & ENERGY ANNOUNCED A FUTURE WIND AUCTION ONGOING PROCESS.

GREEN HYDROGEN R&D

TECHNOLOGIES COUPLING R&D AND HYDROGEN BACKUP SYSTEMS.







FIER

DATA

SITE

40°43'15", 19°25'57"

PV System: ground-mounted large scale

Azimuth of PV panels: Optimum (180°)

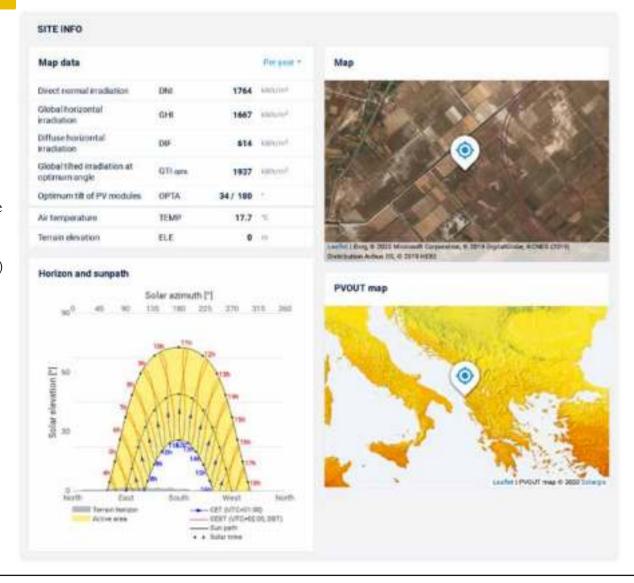
Tilt of PV panels: Optimum (34°)

Installed capacity: 1000 kW

Annual averages:

Total fotovoltaic power output

1571 GWh per year





FIER

AREA





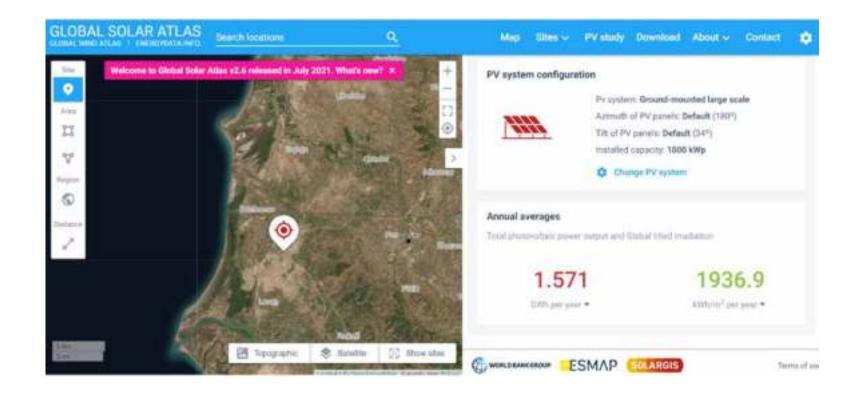
Area 60 ha

Distance from Fier 110/220 sub station: 10.3 Km



FIER

EXPLOITATION PERFORMANCE





XHAFZOTAJ

DATA

41°21'48", 19°30'36"

PV System: ground-mounted large scale

Azimuth of PV panels: Optimum (180°)

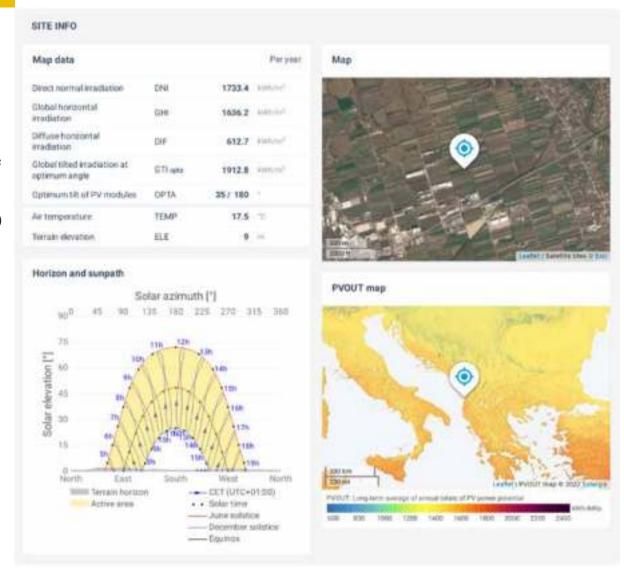
Tilt of PV panels: Optimum (34°)

Installed capacity: 1000 kW

Annual averages:

Total fotovoltaic power output

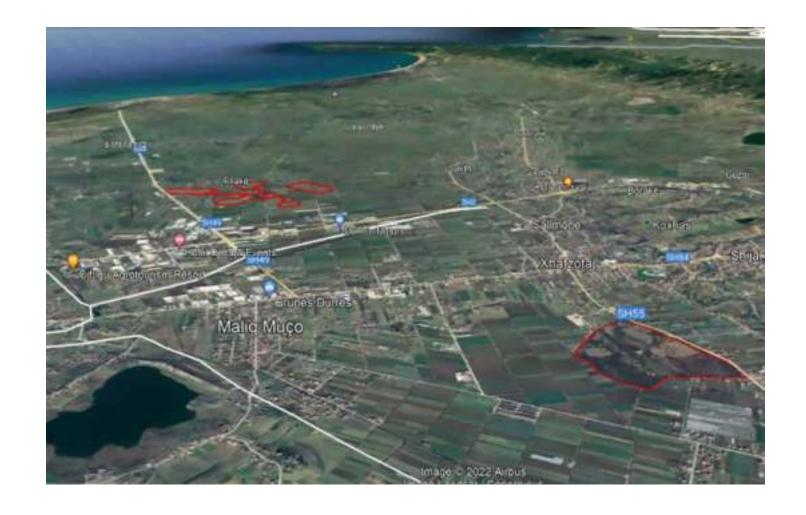
1555 GWh per year





XHAFZOTAJ

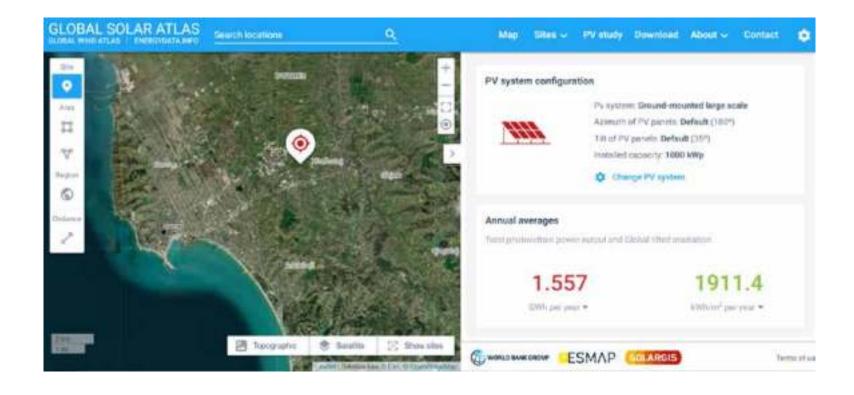
AREA





XHAFZOTAJ

EXPLOITATION PERFORMANCE



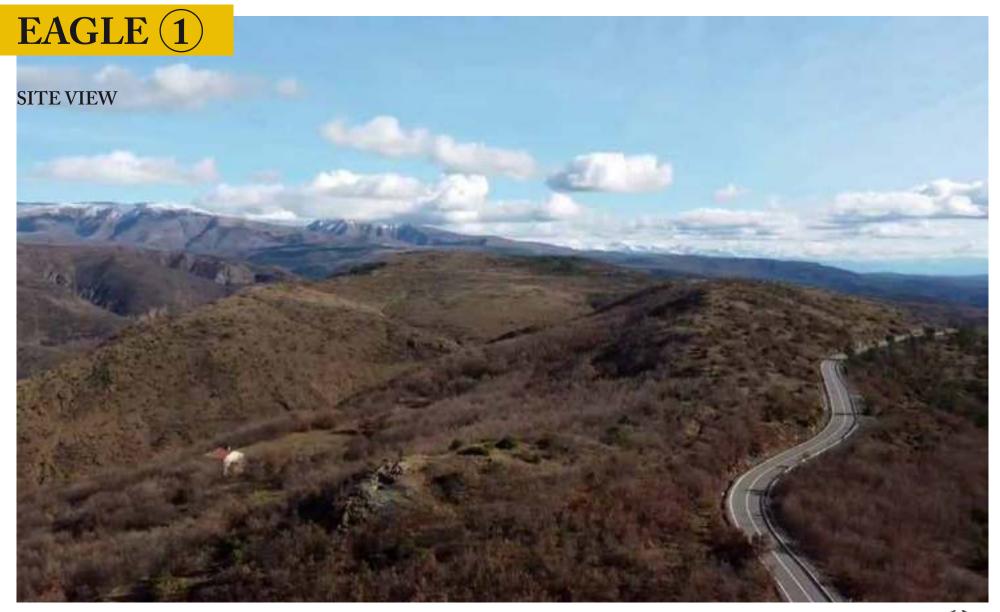




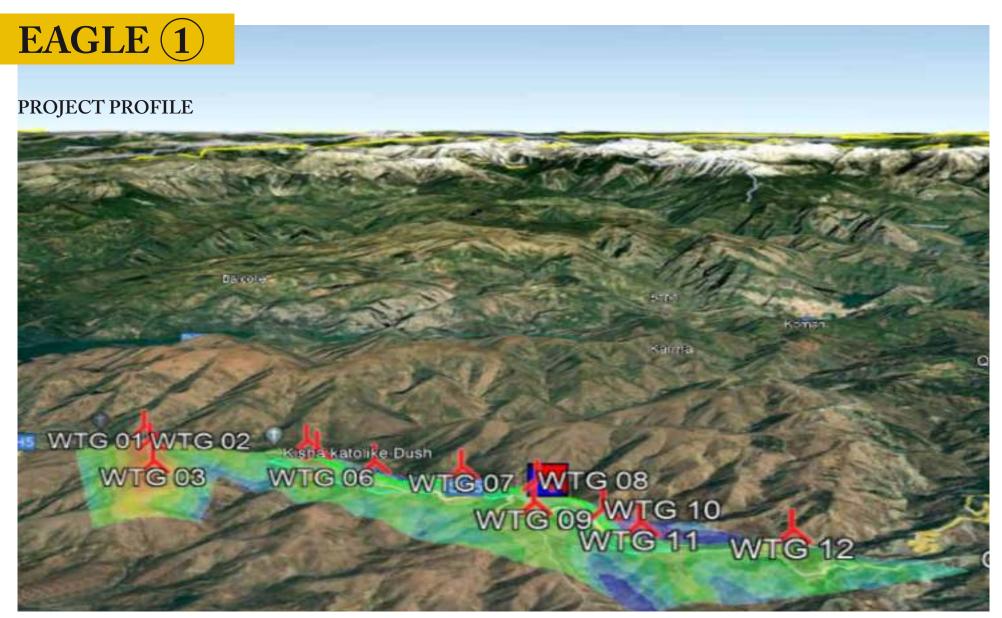
WIND SOLAR HYBRID SYSTEM



|24



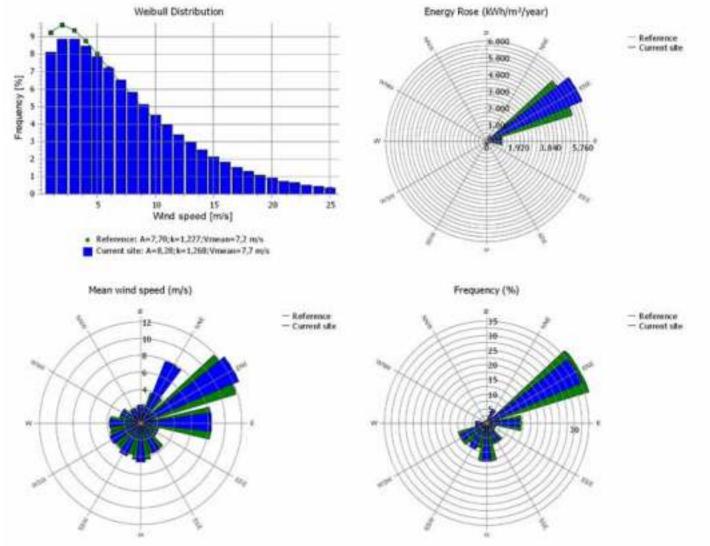






EAGLE 1

WIND





EAGLE (1)

WIND

PARK - Main Result

Calculation: Puke Large Area Largest Layout Wake Model N.O. Jensen (RISØ/EMD)

Calculation performed in UTM (north)-WGS84 Zone: 34

At the site centre the difference between grid north and true north is: -0,8°

Power ourve correction method

New windPRO method (adjusted IEC method, improved to match turbine control) <RECOMMENDED>

Air density calculation method

Height dependent, temperature from climate station Station: SHKODRA V3 2014

Base temperature: 16,1 °C at 44,0 m Base pressure: 1813.3 hPa at 0,0 m

Air density for Site center in key hub height: \$53,1 m + 90,0 m = 1,147 kg/m² -> 93,6 % of Std

Relative humidity: 0,0 %

Wake Model Parameters

Wake decay constant 0,075 DTU default onshore

Omnidirectional displacement height from objects

Wake calculation settings Angle [*] Wind speed [m/s]

start end step start end step 0,5 360,0 1,0 0,5 30,5 1,0

Wind statistics AL Puke MCP - MCP session (1) - [Matrix] awas

WAsP version WAsP 12 Version 12:07:0048

Key results for height 80,0 m above ground level Terrain UTM (north)-WGS84 Zone: 34

distribution

A 401.803 4.651.591 Site data: StatGen WAsP (WAsP 12 Version 12.07.0048)

Easting Northing Name of wind Type

WTG 01

4

New WTG

WTG 02

Wind energy Mean wind speed Equivalent roughness

(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL

Scale 1:125,000

WTG 08

WTIWTG 10.

WTG 11WTG 12

[kWh/m²] [m/s]

Site Data

WTG WTG 07

5.156 7,2

Calculated Annual Energy for Wind Farm

WTG combination		Specific results*)							
	Result PARK	Result-10,0%	GROSS (no loss) Free WTGs	Wake loss	Capacity	Mean WTG result	Full load hours	Mean wind speed @hub height	
	[MWh/y]	[MWh/y]	[MWh/y]	[96]	[%]	[MWh/y]	[Hours/year]	[m/s]	
Wind farm	242.852.2	218.567.0	246.563.9	1.5	34.6	18.213.9	3.036	9.3	

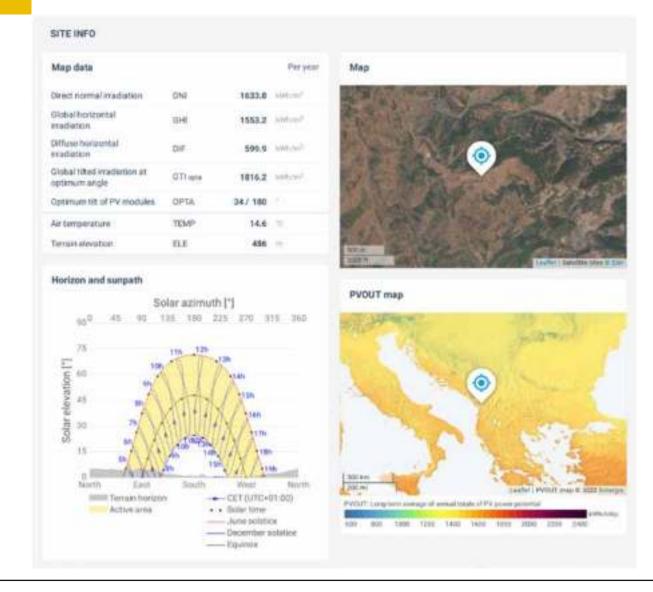
Based on Result-10,0%



0.4

EAGLE 1

SOLAR



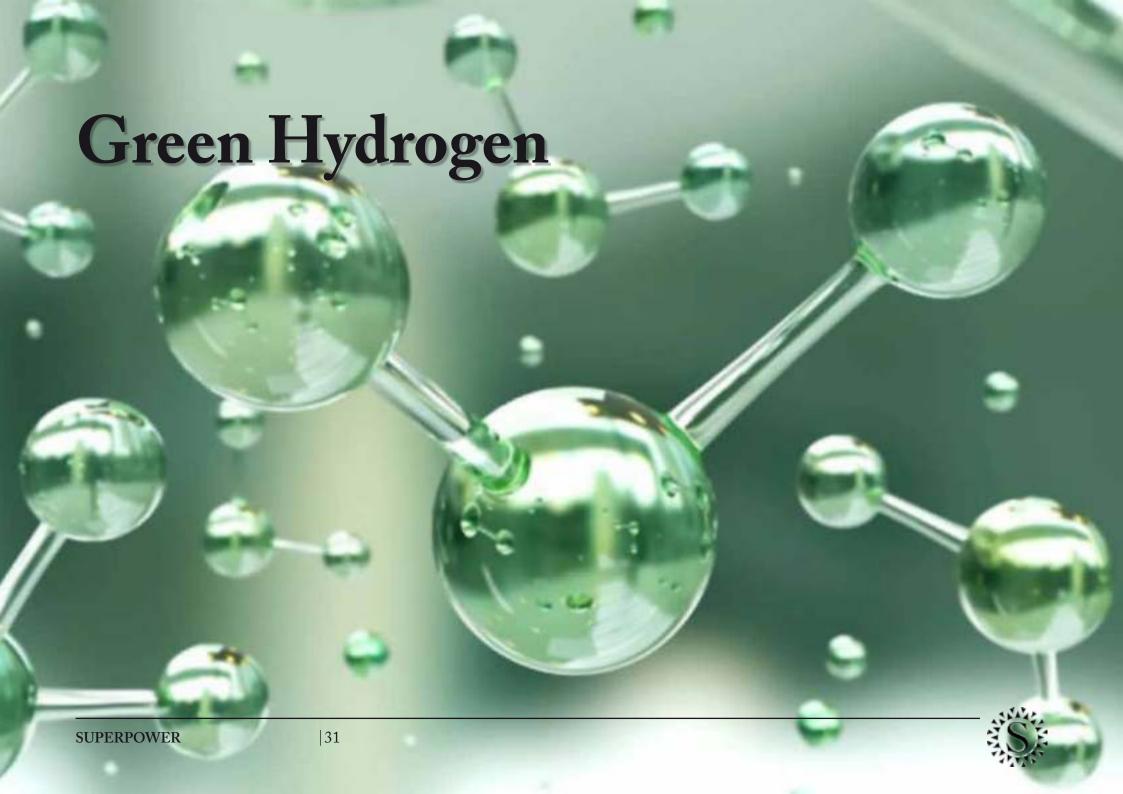


EAGLE 1

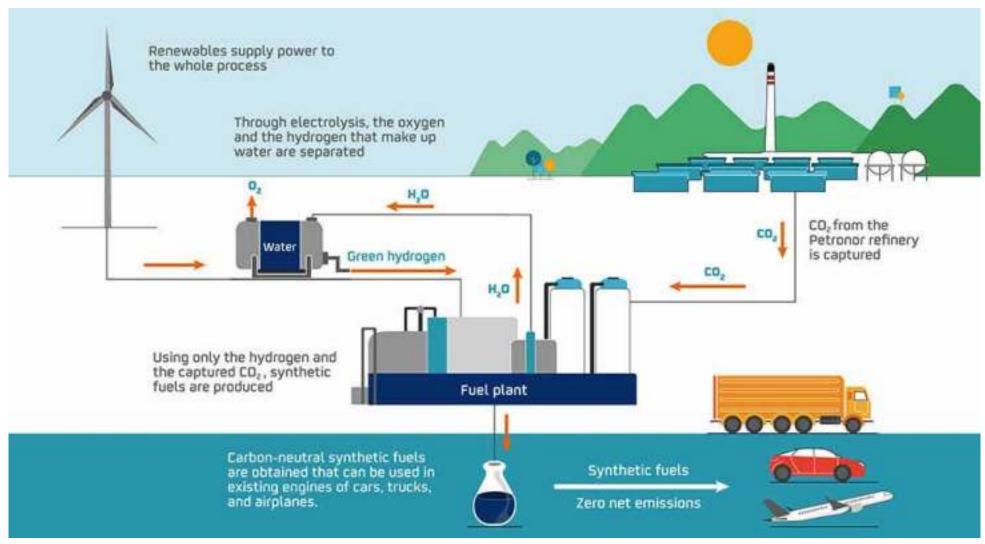
SOLAR







R&D





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