



AEA
Albania Energy
Association

Plaza Hotel – Tirana – 07 – Dec – 2018

Setting targets towards a viable energy model.

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About Albania Energy Association

The Albania Energy Association represents the Albania energy industry, covering all renewable, power, heat and fuels.



- ✓ AEA is an independent entity, it is not for profit organization since 2011, that supports all governmental and non-gov actors in Albania.
- ✓ Support in securing the best legislative and regulatory framework for expanding sustainable energy production
- ✓ Experience in many major development types including oil and gas, and waste management, renewable energy, electricity, grid infrastructure,
- ✓ Influence policy making, build networks and raise members profile in the international level. The association brings together leading developers, utilities, research organizations and more.
- ✓ AEA provides consultancy for RES, combined heat and power and oil gas industry. planning services, for gaining planning permission for RE projects.

Energy in Europe

RENEWABLE ENERGY NEEDS TO BE SCALED UP AT LEAST SIX TIMES FASTER FOR THE WORLD TO START TO MEET THE GOALS SET OUT IN THE PARIS AGREEMENT.

EU STRATEGY ON CLIMATE
NEUTRAL EUROPE BY 2050

In line with the Paris Agreement objective to keep temperature increase to well below 2°C

BY 2030

32%

Renewable Energy

32.5%

Energy Efficiency



Energy in Albania



100% Electricity Net produced in **2017** is **4525 GWh** Its production is generated only by Hydropower only.

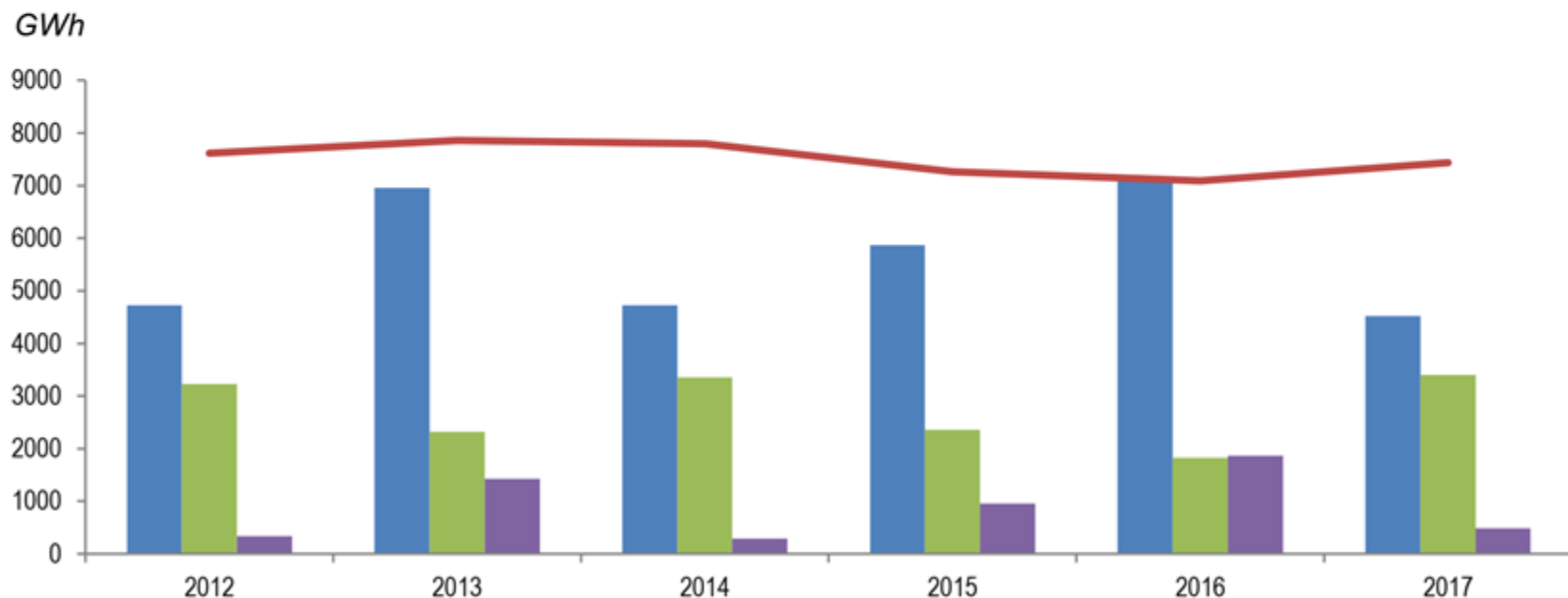
37%

Less electricity production from Hydropower compare to previous year 2016.

3403 GWh

Imported electricity during 2017 - **45%**
Exports Resulting - **6.5%**

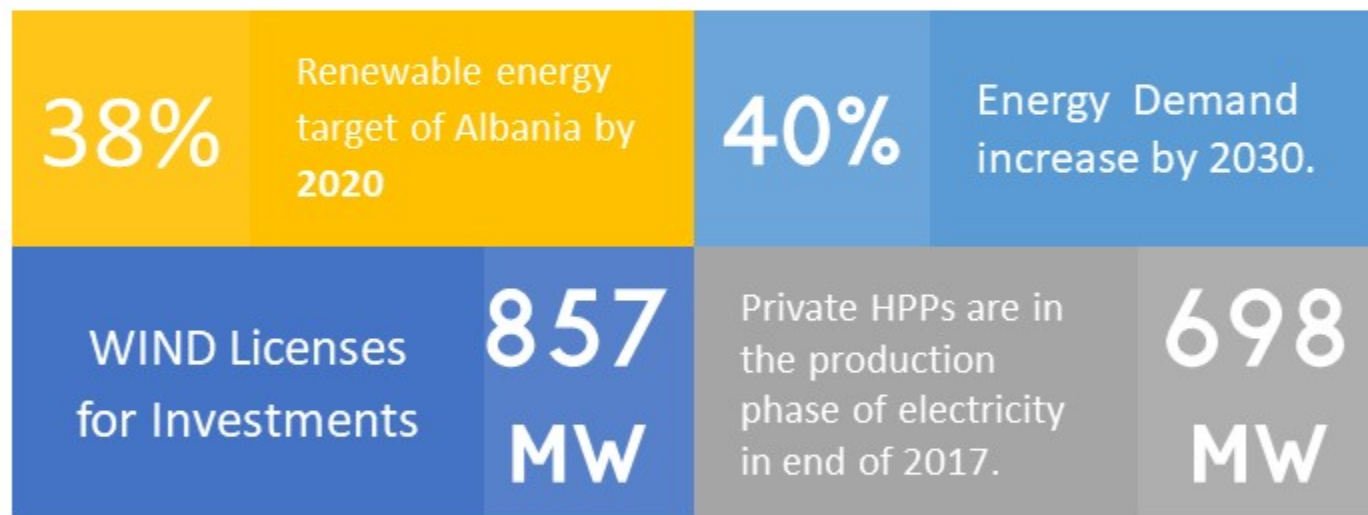
-  Domestic net production
-  Gross imports (energy intake)
-  Gross export (supply energy)
-  Gross export (supply energy)



RES in Albania



Total installed hydropower **2145 MW** and TPP (98MW) capacity in Albania. **857 MW** wind capacity have been licensed to be installed in North West and South/ South-West of Albania.

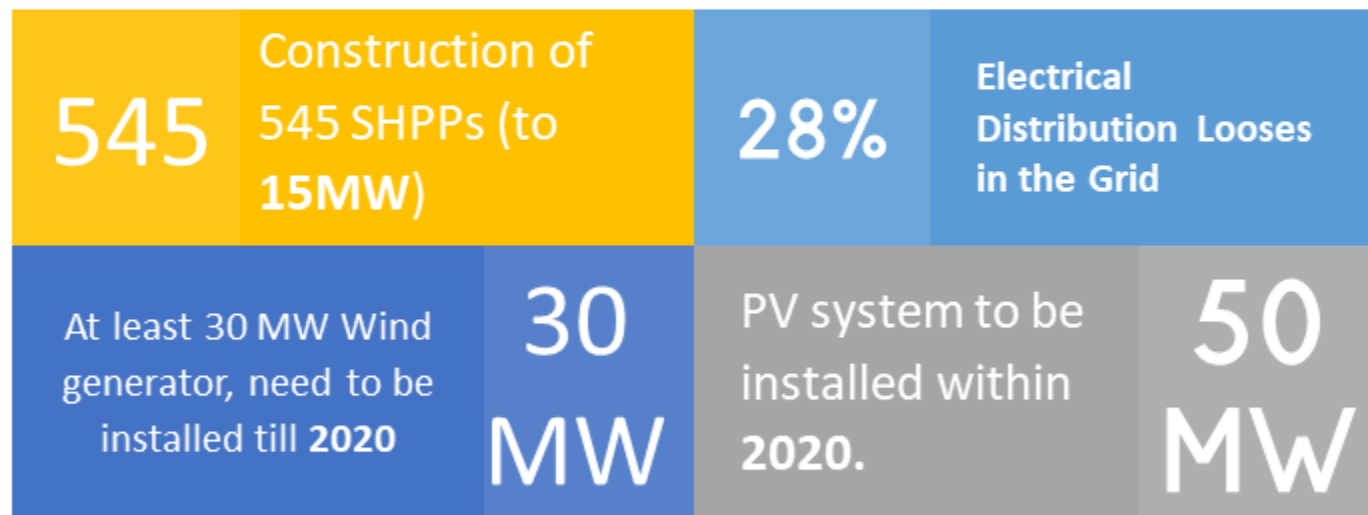


Law 7/2017 "On Promoting the Use of Energy from Renewable Resources", approved by Council of Ministers Decision no. 369, dated 26.4.2017 supports development of renewable energy investments in Albania. LAW Nr. 43/2015 FOR THE ENERGY SECTOR supports the sustainable development in production/generation, distribution of electricity, and electrical market policies. And Law for Energy Efficiency 124/2015.

RES in Albania



2 MW (3MW Wind) per generation unit (small installations) are entitled to claim a feed in tariff (FIT), 100 **Euro/MWh** is the FIT for investing in Solar energy (PV) with capacity 2MW / Unit. **76Euro/MWh** is the FIT for Wind power generation to 3MW.



Albania have average 4200 hours with wind per year. Actually in Albania Territory in under survey for potential. **Average solar radiation is 1600 kWh/m2 per year** and Maximal radiation is **2200 kWh/m2 per year**.

Energy Mix



Albania rely on a dominant single source of electricity supply, such hydropower , reform and integration can address these issues by diversifying the energy mix within Albania and the region as well as sources of external supply, promoting energy efficiency and the development of renewable energy sources.

857MW WIND ENERGY



Smart Energy Smart Cities



Opportunities for Public Building and Private to invest in EE in PV systems up to 500kW.
CO2 reduction and meet energy demand self consumption,
return of investments from 5 to 6 years.

468 kWp Museum of Tirana



PV Energy in Albania

Over
~2 GW PV Ready
for Investments
In West Albania



PV Energy in Albania / Vlora-Akerni

over 950 MW

~1900 HA



PV Energy in Albania / Fier / Darzeze

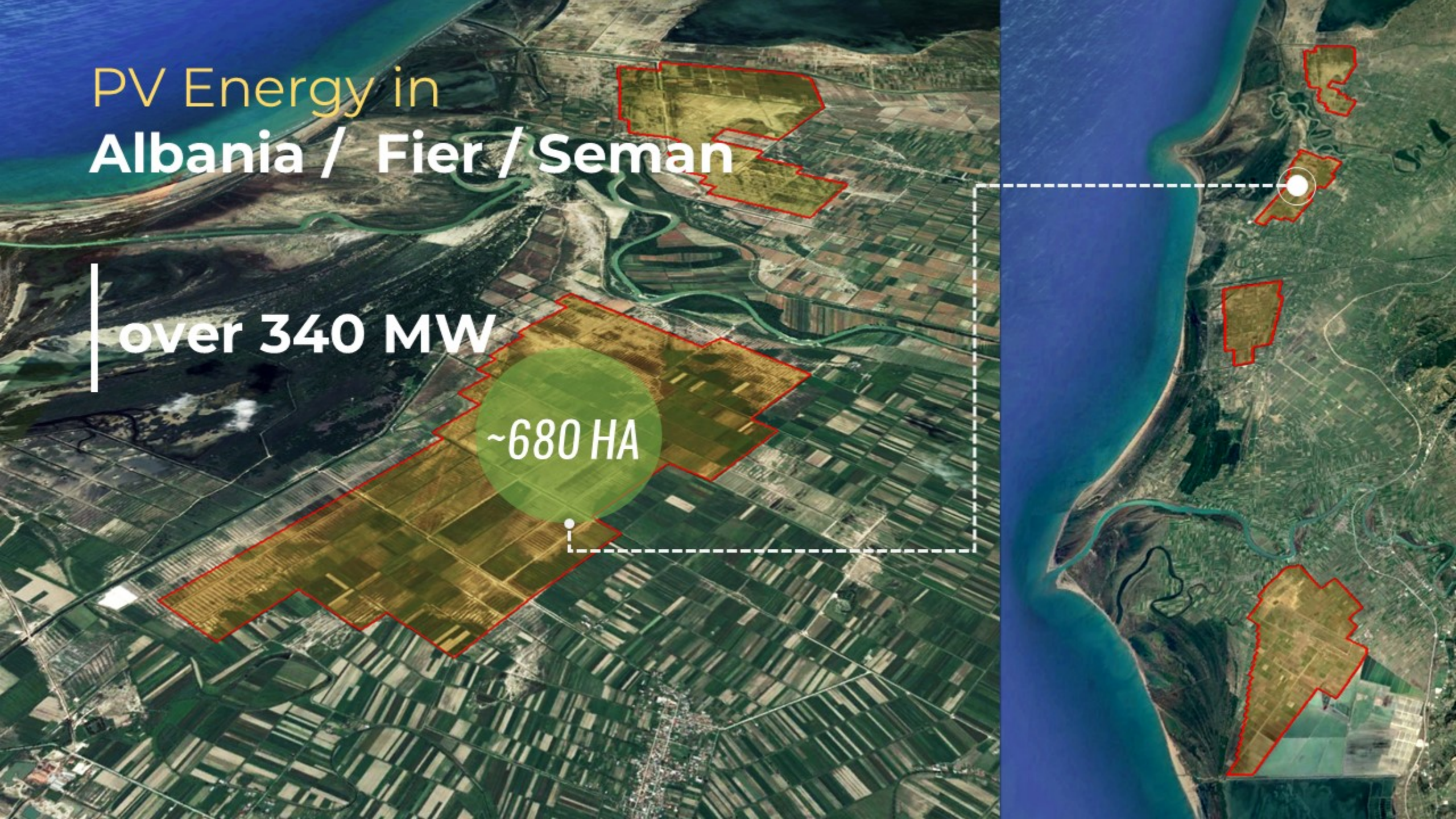
~760 HA

over 375 MW

PV Energy in Albania / Fier / Seman

over 340 MW

~680 HA



PV Energy in Albania / Karavasta

over 380 MW

~760 HA



Key issues

Electricity Sector



Several challenges in the country's electricity sector, including:

- Full dependence on hydropower generation and its vulnerability to weather patterns
- Lack of adequate self-generation capacity
- High level of distribution losses that require significant power imports is adding financial stress to the sector and the economy.
- Albania's energy sector is currently suffering annual losses estimated at €160-200 million (World Bank estimates), creating an urgent need for energy efficiency improvements.
- Small and large hydropower facilitate the penetration of RES and contribute to reducing GHG emissions in the electricity sector
- Appropriate mix with other RES and proper development of the hydropower potential is recommended.



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Thank You

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