



Energy Agency of the Republic of Macedonia

# Comments on further developments of the SEERMAP project

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## Background of the Energy Agency of the Republic of Macedonia:

- The Energy Agency of the Republic of Macedonia is established by the Law on Establishment of Energy Agency of the Republic of Macedonia.
- The Agency acts in a capacity of a legal entity and has public authority prescribed by the Law on Establishment of Energy Agency of the Republic of Macedonia.
- The Agency is autonomous in its operations.
- The functions of the Agency are support to the implementation of energy policy, preparation of long-term and short-term programs, energy efficiency (EE) and utilization of renewable energy sources (RES), regional cooperation and coordination, preparation of draft laws, secondary legislation and technical regulations in the area of energy and other activities in the energy sector.



## ENERGY AGENCY IS RESPONSIBLE INSTITUTION FOR:

- Develop and maintain a database on the energy consumption in the Republic of Macedonia, (not to mix with energy balance)
- Participate in the development of strategies and action plans for energy,
- Issuing permits for measurement of wind energy,
- Keeping a register of plants that generate electricity from renewable energy sources and high-efficiency cogeneration plants,
- Issuing confirmation on behalf of government with in the procedure for acquiring the status of privileged producer of electricity from renewable energy sources and highly efficient cogeneration plants,
- Issuing certificates of origin for electricity produced from renewable energy sources and highly efficient cogeneration plants,

## Specific Activities In the area of renewable energy sources the Agency The Register

Type of power plant	PV	SH	WPP	BIOGAS	TOTAL
number of power plants	102	73	1	3	179
Total installed power [MW]	16,71	67,31	36,8	6,999	127,82
Planned annual production [MWh]	21.411	239.052	100	58.592,8	419.056







# New technologies

- Integrated RES: all sources store energy in hot water tanks, ORC(Org Rank Cycle) used to produce electricity. Ef.rate 32-35% from primary en.source. Partial implementation Horizon 2020 Cool heating project-Denmark.
- New technologies and innovations : the 3 kW nano plasma transformer used to do saving of 60% of electricity, for a price of 700 Euro. Author Keshe foundation since 2016, factory in Europe, Ghana and US -Arizona.
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60% saving of electricity up to 3 KW of cons. For 700 Euro

- **Plasma Power Unit (On-Grid) - Shipping Included**
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THANK YOU FOR YOUR ATTENTION

Energy Agency of the Republic of Macedonia

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