

**Electromobility in Albania – current state of art and the way forward on  
Electromobility in Albania.  
Where we stand today and where we want to be**

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The Energy Efficiency Agency (AEE) is the responsible entity in the Ministry of Infrastructure and Energy (MIE), for implementing policies and promoting energy efficiency measures aimed at improving and promoting energy efficiency in Albania. AEE was established as an institution and started its function at the end of 2018. During the period 2019-2020, the legal framework for the normal functioning of its activity was completed.

With the establishment of its staff, AEE has started the cooperation with domestic and foreign institutions, becoming an integral part of the domestic market, with the aim of using energy efficiently and reducing the negative impact on the environment.

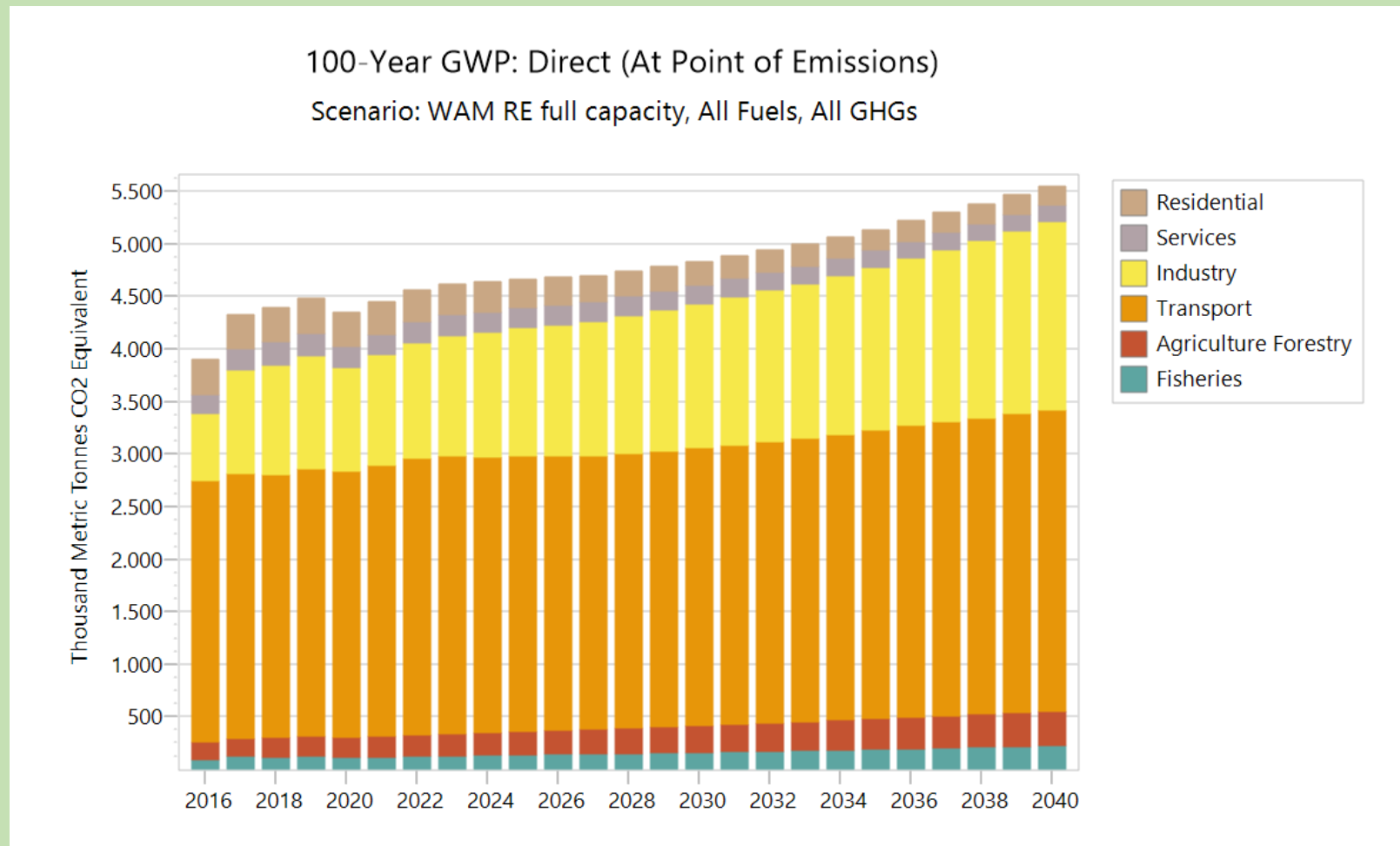
AEE in close cooperation with stakeholders, is intervening in the sector of buildings and industry which are considered as sectors with high energy consumption in the market, through promoting policies and encouraging the use of new and environmentally friendly technologies, for reducing CO2 emissions. For this reason AEE in addition to other measures is undertaking awareness campaigns with local authorities, civil society in all its diversity and representatives in the industry sector.

- Regarding to transport sector Albania counts approximately 540 000 vehicles (cars and light commercial vehicles)
- The use of electric vehicles is very small about 861 electric vehicles and about 1375 combined fuel + electric vehicles, Only in the city of Tirana about 250,000 vehicles have been registered and the use of electric vehicles is mainly registered in this city. Part of the EV chargers are placed in premises for private use or in some companies which use EV in their transport.
- This small number is a result of the lack of a network for charging these vehicles, as well as the lack of legislation to stimulate the use of these cars. The transport sector with an old fleet of 670,000 vehicles in total, is considered one of the largest polluters and with high environmental impact, therefore the use of EV is considered clean technology also for the fact that electricity production comes mainly from clean sources energy.
- At the countries of the European Union since 2010 electric vehicles have received a great development and the trend of their use has increased significantly. Even in Albania there is a growing interest in the use of electric and hybrid vehicles.
- AEE has drafted a study for the establishment of a network of charging station throughout the territory of Albania, in order to facilitate a longer journey, based on a comprehensive study on the number of vehicles for each city and the additional part coming from tourism sector. It is envisaged that the network of EV charger stations will be extended both within cities and on national roads.

- The distances between cities, even in the farthest ones in the territory of Albania, are not too long, which makes it easier to use electric cars.
- The rapid development of electric car technology by continuously improving the capacity and effectiveness of the battery for a longer journey with a full battery charge, will bring the opportunity for the vehicle user to be independent of the obligation from a distance certain should be forced to stop to charge the car battery. Also setting up the charging infrastructure would strongly stimulate the use of electric vehicles. For this reason we have to monitor the trend of electric vehicles to ensure that the network of charging point is developed in advance in relation to car sales.
- Electric vehicles are an important technology in reducing air pollution in densely populated areas, as well as a promising opportunity in contributing to energy diversification targets for reducing greenhouse gas emissions. The production of electric energy in Albania comes from the renewable energy so electric vehicle make sense.

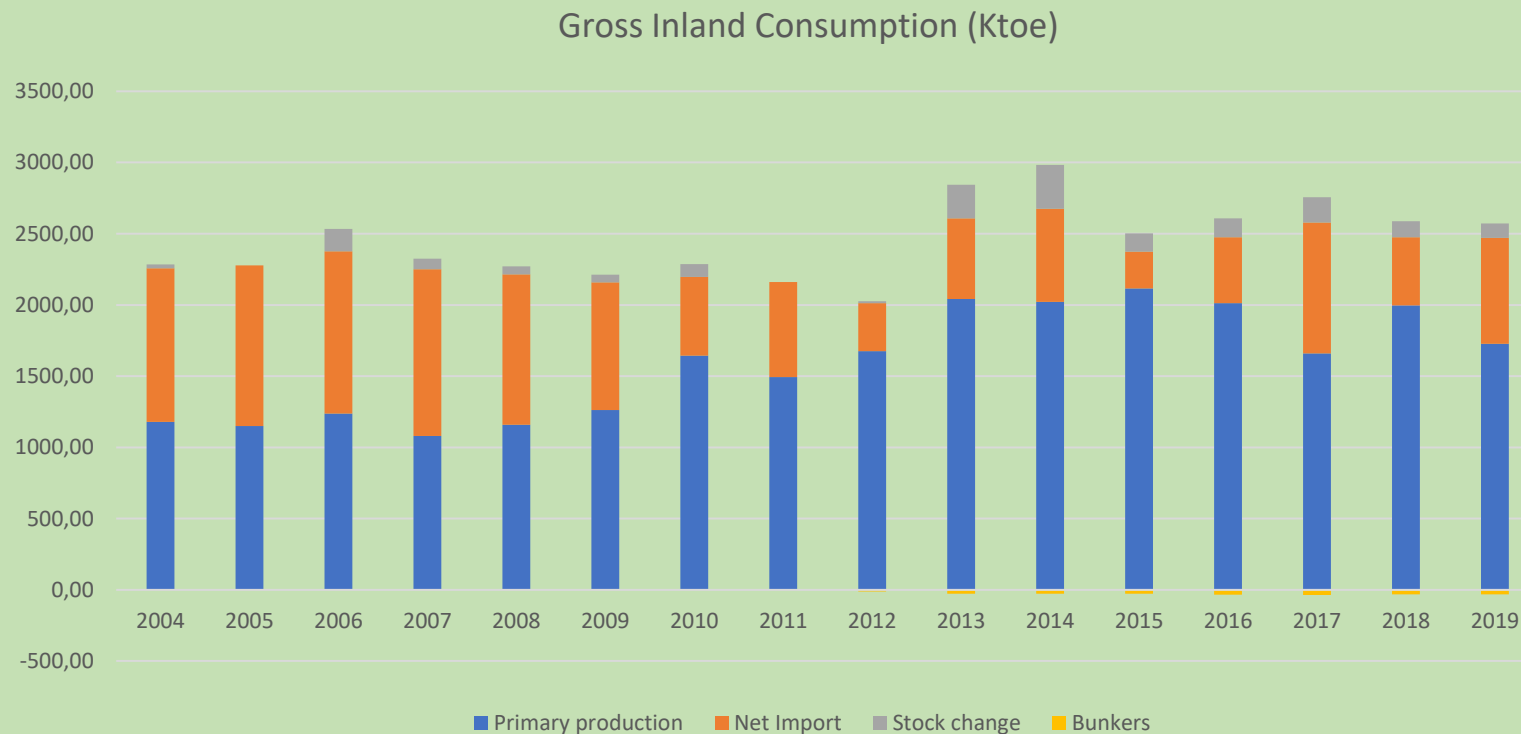
- *The final energy demand based during 2004-2019 is dominated by transport, followed by household & commerce. Specifically, for the year 2019:*
- **The Transport sector** accounts for **41.6%** of total energy consumption
- **The households and commerce sector** accounts for **34.7%** of total energy consumption
- **The Industry sector** accounts for **18%** of total energy consumption
- **The remaining** share is agriculture and others

Regarding the production of greenhouse gases (green house gas), the sector that produces the most pollution **is transport**, followed by **industry and building**.



Direct GHG emissions (ktCO<sub>2</sub>eq) for energy demand sectors for the historic years 2016-2018 and as projected for 2019-2040 with additional measures

- **Structure of the Albanian energy system**
- In terms of **Gross inland consumption** (to be confirmed) **2019**, the Albanian energy system has been dominated and still continues to be dominated by oil by products **for transport use (appr. 53.3%)**, followed by electricity produced from hydropower (appr. 28.17%), and in the third place is biomass (fuelwood, appr. 6.8%) used for heating, cooking and domestic hot water. Fuelwood is mostly used in household (rural areas) and in the service sector.



**Gross Inland Consumption (ktoe) (Source: Albanian Energy Balances)**

- Based on National Energy and Climate Plan of the Republic of Albania approved on December 2021 its objectives which include **“Increase the share of Electrical Vehicles in the national car fleet”**
- **Main Objective of Policy and measure is** *Establishing the electrical charging stations network to improve overall sustainability of the Road and Urban Mobility System and reduction of GHG emissions coming from the transport sector through deploying charging infrastructure.*
- **Results to be achieved** *Reduce fossil-based energy consumption and establishment of the sustainable public/ private transport, through development of the electric car charging point infrastructures*
- Establishment of **200-300 electric car charging points throughout Albania by 2025**
- **Measures to be implemented** *Development of the electric car charging point infrastructures*



