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Jedlik Ányos Plan E-mobility concept of the Hungarian Government

Green eMotion Project Closing Conference

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Antecedents – Evolution of the concept

EU documents

- Strategic document of the European Commission (24/01/2013): „**Clean Power for Transport: A European alternative fuels strategy**”
 - replace oil with alternative fuels;
 - savings on the oil import bill (€ 4.2 billion per year in 2020, increasing to € 9.3 billion per year in 2030, and another € 1 billion per year from dampening of price hikes)
 - support to the market development of alternative fuels and investment in their infrastructure

- **Directive 2014/94/EU** (22/10/2014) on deployment of alternative fuels infrastructure
 - lack of a Union-wide harmonised alternative fuel infrastructure
 - continuity of alternative fuels infrastructure coverage across national borders or the construction of new infrastructure
 - mandatory charging standards
 - stakeholder plans within 2 years

Antecedents – Evolution of the concept

Hungarian landmarks

March, 2014 - Announcement of the prospective E-mobility plan, the Jedlik Plan by Mihály Varga the Minister for National Economy

September, 2014 - The Jedlik Cluster has been founded under the supervision of the Ministry for National Economy and the National Innovation Office.

- broad consensus and social acceptance
- innovative companies from the sector

February-March, 2015 – Expected confirmation of the Jedlik Plan by the Hungarian Government

- in harmony with EU actions and rules
- in accordance with industry strategy policy of Hungary supporting electromobility
- in line with the policy of developing education and creating new jobs



Main topics of the Jedlik Plan



RESEARCH AND
DEVELOPMENT

Connected R+D+I, support of domestic production



INFRASTRUCTURE

Expansion of infrastructure, supporting project financing



LEGAL AND
TAXATION

Review of legal and taxation conditions - incentives



COMMUNITY
AND E-MOBILITY

Role of community in e-mobility



PILOT
PROJECTS

Pilot projects



Research, development, innovation

Financial support of R+D+I of manufacturers and suppliers of the automotive industry - Operative programmes for 2014-2020

Support of high-quality infrastructure development projects, education of specialists and technicians.

Manufacturers and suppliers can be involved in the execution of the Jedlik Plan

Maximalization of the industry developing potential of the electromobility.

Outstanding position of the automotive industry will be maintained simultaneously with the expected rise of e-mobility.

Infrastructure

The charging network must be developed in order to achieve that every part of the country can be reached by electric vehicles.

In Hungary currently there are only **60 charging points** are available for the public. On long-term **a few thousand charging points are required** to make electric vehicles a real alternative.

As part of the Jedlik Plan **business associations will be given the opportunity to locate charging points**, supposing that offering an appropriate parking place with charger may generate commercial and service increase.

Also **local municipalities** may have areas that can provide alternative locations for charging points.

- **Lightning chargers** shall be located like spider's web, moving away from the cities. The charging period of these chargers is 20-25 minutes.
- In the cities service centers or parking lots shall be equipped with **fast chargers** with charging period of 90-150 minutes.
- At home the **normal chargers** also can be appropriate. Charging time is around 6 to 8 hours and the chargers are functioning through the household plug-ins.





Incentive scheme

Current allowances for electric vehicles:

- Registration tax – HUF 0,
- Vehicle tax – HUF 0,
- Exemption from pecuniary transfer duty

Planned allowances

No direct financing is conceivable!

Allowances shall be limited in time or in quantity!

- charging point owners shall be allowed to trade with current as reseller
- expanding the availability of the „night power” (for at least 8 hours during the night)
- green license plate number
- plug in hybrid, long-range electric vehicles and hydrogen cell vehicles shall be added to the beneficiary category
- parking broads, road marjings shall be different
- bus lane usage
- toll discount
- free entry to reserved zones (for example Buda castle)



Community transport and identified possible users

In community transport electric buses may be used **in areas where zero emission technology is of higher importance** because of the traffic environment or some special endowments despite the fact it will be more expensive than the usage of traditional vehicles (for example Buda Castle, inner districts).

Additional transportation services

- Smart city solutions (street-lighting infrastructure, V2G technology)
- E-taxi
- Car-sharing

Possible users who can add to green transport by using different types of electric vehicles and can be used as pilot projects for introducing electric transport.

- Government fleet
 - Municipalities
 - Medical institutes
 - Educational institutes
 - State companies
 - Health-care support
 - Municipal waste collection
 - Hungarian Post, other parcels
-

Vision of the government

The vision of the government is to establish electromobility in Hungary by **providing all the possible circumstances** that will lead to the more common usage of electric vehicles. Prices of EVs are currently higher but providing the

By **identifying and collecting in a cluster the possible participants** of this half century long plan the government has taken the first step to execute a project of broad social acceptance.

The further steps of Jedlik Plan will be made in line with the intentions of the European community but on the bases of highly anticipated rise of the Hungarian electromobility industry. Bus manufacturers are ready to make an impact on the market with the capability of providing high-technology vehicles and suppliers are also waiting for the opportunity to develop in an innovative way and getting to be capable of entering the supply chains in the electric vehicle sector.

Most of all the concept of establishing electromobility **is making the future liveable**, making transportation comfortable while not contaminating the cities and the countryside. This is the idea behind the concept which has been and will be taken very seriously by the government and will be continued with the utmost confidence of being able to take part in the development of future transportation.





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Thank you for your kind attention!