The Ányos Jedlik Plan

electric vehicles → sustainable mobility

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TRANSITION TO A SUSTAINABLE TRANSPORTATION
Conference of the Hungarian Eionet Network of EEA
• European strategy for low-emission mobility
• history of electric cars
• Jedlik Ányos Plan
European strategy for low-emission mobility

Current transport systems are not sustainable

• have negative impacts on human health and environment
• consume non-renewable energy sources

20 July 2016 Strategy has been adopted by the Commission.
European strategy for low-emissions mobility

- Optimizing the transport system and improving its efficiency;
- Scaling up the use of low-emission alternative energy for transport;
- Moving towards zero-emission vehicles.
History of electric cars

In 1828 Ányos Jedlik created a small model car powered by his new motor.

In 1834 Thomas Davenport and his wife build a model electric car that run on a circular, electrified track.

In 1835 the Duch Sibrandus Stratingh and Christopher Becker build a small electric car powered by batteries.
Practical electric cars

In 1884 Thomas Parker built the first production electric car in London;

France and United Kingdom were the first nations to support the widespread development of electric cars;

In the 20th century electric car lost its position in the automobile market.
At the end of the 20. century attention turned towards the development of electric cars again;

Today our long term strategic aim is the usage of zero emission cars only in road transport.
E-mobility plan of Hungary → Ányos Jedlik Plan

March 2014 Ányos Jedlik Plan was announced

Main aim: to change internal combustion engine vehicles for plug-in hybrid (PHEV), extended range electric vehicles (E-REV) and for 100% electrical vehicles.
Main topics of the Ányos Jedlik Plan

- System of incentives (financial and non-financial);
- Adequate regulatory environment;
- Expansion of charging infrastructure;
- Research, Development and Innovation;
- Electrified community transport;
- Pilot projects.
Jedlik Ányos Cluster has been established in September 2014

- consultative and advisory platform for the government
- shaping the necessary development policies,
- exploring the economic, social and environmental potential of electric mobility,
- recommending actions for politicians and business.
Members and cooperating partners of Ányos Jedlik Cluster

- Research and academic institutions;
- Electric vehicle manufacturers;
- Energy companies;
- Transport organizers;
- Municipalities;
- IT companies and international consulting firms;
- Automotive suppliers and mobility solution suppliers;
- Transport companies etc.
Ányos Jedlik Action Plan

was approved in July 2015 with government decision [No. 1487/2015. (VII. 21.)]
Ányos Jedlik Action Plan
Incentive scheme

Direct

- no registration fee
- company car tax is zero
- VAT on electricity of charging can be reclaimed by companies
- also allowance for night time charging
- support for the purchase of electric vehicles
- establishment of charging infrastructure

Indirect

- free parking for the period of charging
- overall free parking in some cities
- traffic allowance during smog alert
- free transit rights for restricted and protected areas
- bus lane usage for 5 years
Facilitate the installation of the recharging stations
- Lightened electricity trading license procedure for the charging station operators
- Installation of a charging station is a priority during the administration procedures

Facilitate household charging
- Possibility for the households to install a dual-rate measuring system
- For the night charging extended zone periods

Green license plate
- For 100% electric vehicles, plug-in hybrid, extended-range electric vehicle and zero emission car
Pilot Projects

- **Building automotive test track in Zalaegerszeg**
  - will allow for testing of electric vehicles having automated driving systems and driver-less cars in artificial conditions;

- **Community transport**
  - Buses, Smart city solutions, E-taxi, Car-sharing

- **Possible users introduced to green transport**
From 2015

Government grants for municipalities to install 500 charging stations [1.25 billion HUF];

government credits for purchasing electric passenger vehicles and light trucks [2016. 2 billion HUF, 2017. 3 billion HUF]

• 1300 vehicles have been supported.
Expected development of vehicle numbers

Road vehicles by type

- Electric
- HEV+LPG/CNG
- Diesel, petrol
Thank you for your attention!