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# 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;

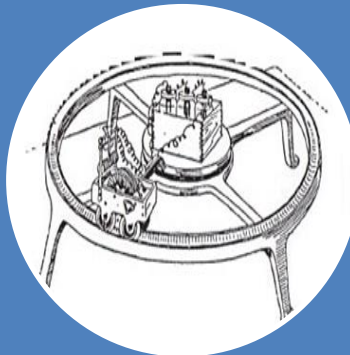
Scaling up the use of low-emission alternative energy for transport;

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



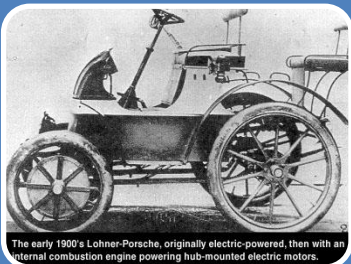


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## Practical electric cars



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



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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.

# Ányos Jedlik Cluster



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**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

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Research and academic institutions;

Electric vehicle manufacturers;

Energy companies;

Transport organizers;

Municipalities;

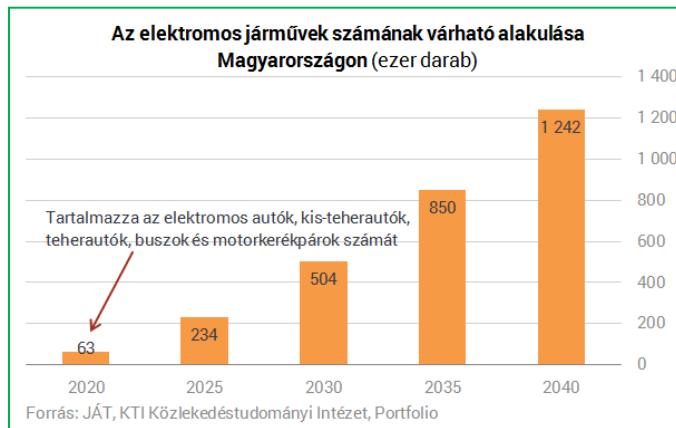
IT companies and international consulting firms;

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



# Ányos Jedlik Action Plan

## 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];

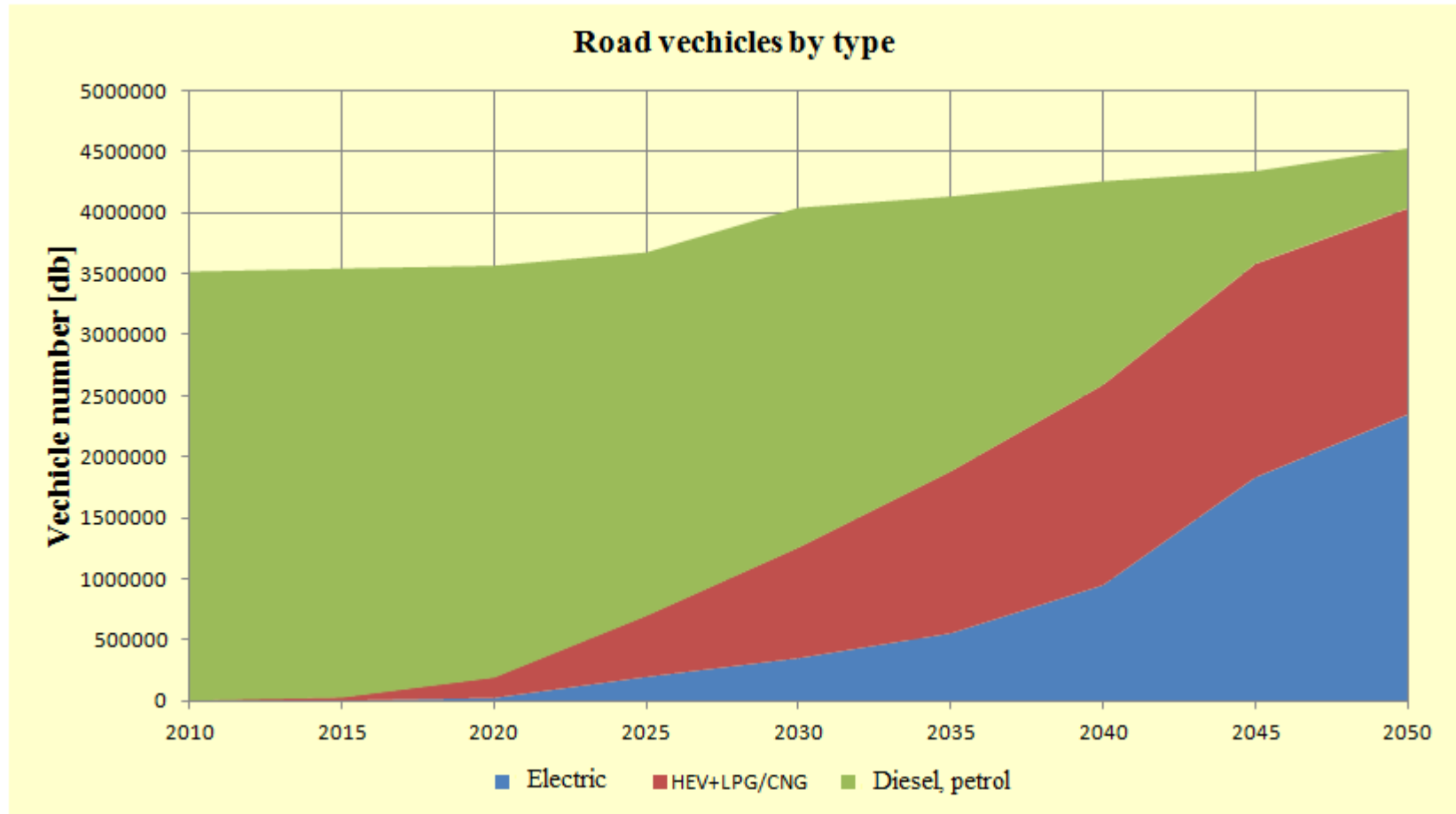
government credits for purchasing electric passenger vehicles and light trucks [2016. 2 billion HUF, 2017. 3 billion HUF]

- 1300 vehicles have been supported.



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# Expected development of vehicle numbers





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**Thank you  
for your  
attention!**