Seminar work

management of these stations. The last

Vaclav Tomicek

player is the users of electric cars, who

use the created structure of charging

Applied game theory

stations, which exists thanks to the first

1 Problem solved

three players.

As already outlined, the first three

The article deals with the problem of

players create a cooperation agreement.

construction of charging infrastructure

Thus, the government provides subsidies

and its charging in urban residential

that are drawn by both real estate

areas for electric cars. The study focuses

agencies and charging station operators.

on the feasibility and overcoming this

Real estate agencies use these subsidies

dilemma through various subsidy

for the construction of stations and

incentive mechanisms and the sharing of

charging station operators, they use

economic benefits between

the

subsidies to maintain services and

government, charging infrastructure

provide them to customers. Together,

operators, real estate agents and electric

they form one large entity, to which real

vehicle users themselves. Using

estate agencies bring the creation of

evolutionary game theory, the authors

infrastructure and the operators provide

create a theoretical model based on

recharging infrastructure

strategic interactions between various

factors in supporting charging devices in

The authors used the evolutionary

urban residential areas.

theory of games, where 4 main players

perform. The first player is the

2 How game theory was

government, which provides subsidies

used

for electromobility and the construction

of the necessary infrastructure. It also

The authors used the evolutionary

oversees companies and organizes

theory of games, where 4 main players

electric car users. The government,

perform. The first player is the

rather than the player, acts as a market

government, which provides subsidies

regulator by subsidizing all participants.

for electromobility and the construction

Other players are real estate agencies

of the necessary infrastructure. It also

and charging infrastructure operators. In

oversees companies and organizes

this case, real estate agents should be

electric car users. The government,

responsible for investing in charging

rather than the player, acts as a market

stations and selecting their location

regulator by subsidizing all participants.

where these stations will be installed.

Other players are real estate agencies

and charging infrastructure operators. In

Charging infrastructure operators are

this case, real estate agents should be

responsible for the operation and

management of these stations. The last

responsible for investing in charging

player is the users of electric cars, who

stations and selecting their location

use the created structure of charging

where these stations will be installed.

stations, which exists thanks to the first

Charging infrastructure operators are

responsible for the operation and

three players.

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