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| **Project title** | **EAST-E** |
| **Project duration** | March 2016 – December 2020 |
| **Total approved funding** | EUR 5.05 million |
| **Consortium members** | HEP, E.ON Group (Zapadoslovenská energetika from Slovakia, E.ON Czech Republic), GO4 (Slovakia) |
| **Brief project description** | The European Commission has granted funding to the EAST-E Consortium under the Connecting Europe Facility (CEF) in the amount of EUR 5.05 million for the installation of a total of **57 multi-standard fast charging stations** (50kW) for electric vehicles in Cohesion countries - Croatia (27 charging stations), Slovakia (15) and the Czech Republic (15).<br><br>With this installation, the existing charging station network in Slovenia, Austria, Germany, Slovakia and the Czech Republic shall be expanded and supplemented as well as cross-border journeys facilitated in 11 countries – from the Atlantic and the North Sea to the Mediterranean and further east towards Poland, Ukraine and Bosnia and Herzegovina. The project also focuses on intermodality (combining several types of transportation) on 20 airport locations (Zagreb, Prague, Bratislava) and railway stations.<br><br>The EAST-E project shall focus both public and private stakeholders in terms of planned implementation, which will enable a precise and optimum planning of further market development, infrastructural implementation and user satisfaction.<br><br>The project has been supported in Croatia by some of the largest global vehicle manufacturers – BMW, Nissan and Renault, E.ON Hungary, the Ministry of Infrastructure of the Republic of Slovenia, the President of the Republic of Croatia, the Ministry of Economy, Tourism and Entrepreneurship of the Republic of Croatia, the Environmental Protection and Energy Efficiency Fund, Rijeka-Zagreb Motorway and Hrvatske ceste, INA, TIFON, MZLZ and HŽ Infrastructure, 10 development agencies in Croatia as well as 5 counties and 5 largest cities along the project route in Croatia. |
| **Main needs of Cohesion countries met by the Project** | • Differences in infrastructure maturity and consumer needs<br>• EV availability and affordable prices<br>• Synergy between EV charging station network operators and electricity distributors aimed at the improvement of the RES usage business case<br>• Seasonality (e.g. holidays and vacations)<br>• Full compatibility and roaming functionality with existing networks<br>• End-to-end business offers and ICT systems which meet consumers' expectations |
| **Key project benefits for HEP** | • Procurement, installation and commissioning of 27 multi-standard rapid charging stations on frequently visited locations<br>• Procurement, installation and commissioning of ICT solutions for the management of charging stations, the billing system, users' charging station geolocation via web and mobile platforms<br>• Establishment of the roaming platform with 11 countries (free driving passage and the use/charging of HEP service to drivers from abroad)<br>• Building of respectable competitive advantage<br>• Accelerating market development through marketing activities in |

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| | Croatia and in EU – high visibility (Croatia, Cohesion countries, EU)<br>• Adequate network load planning for future periods<br>• Establishment of intermodality along roads – railway – aircraft routes<br>• Localization of best EU practice |
| **Useful links** | • Structural Funds<br>• Connecting Europe Facility |
| | For more information, contact us on: elen@hep.hr |

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| **Project title** | **NEXT-E** |
| **Project duration** | March 2017 – December 2021 |
| **Total approved funding** | EUR 18.84 million |
| **Consortium members** | HEP, E.ON Group (Zapadoslovenská energetika from Slovakia, E.ON Czech Republic, E.ON Hungary, E.ON Romania), MOL Group (subsidiaries from six countries), PETROL (Croatia and Slovenia), Nissan, BMW |
| **Brief project description** | In late June 2017, the European Commission granted funding to the NEXT-E Consortium under the Connecting Europe Facility (CEF) in the amount of EUR 18.84 million for the installation of a total of **222 multi-standard fast charging stations** (50kW) and **30 ultra-fast charging stations** (150-350 kW) for electric vehicles along main transportation corridors including some from the Trans-European Transport Network (TEN-T).<br><br>The above project shall result in the development of key EV charging station infrastructure in Croatia, the Czech Republic, Slovakia, Hungary, Slovenia and Romania. Consortium country members shall, by means of mutual cooperation and by using knowledge and expertise in the field of electricity, oil and gas as well as equipment and car production, create a mutually compatible and non-discriminatory EV charging station network as an alternative to the existing gas station one.<br><br>The official assessment published by the Innovation and Networks Executive Agency (INEA) underlines the great importance of the proposed project as well as its promotion of reduced CO2 emissions and the maintenance of mobility and intermodal connectivity. The project importance for a further development of plans and strategies in relation to EV charging infrastructure in east Europe has also been pointed out. |
| **Key project benefits** | • Support to national e-mobility and regional EV expansion strategy plans<br>• Development of sustainable vehicle charging solutions<br>• Assessment of renewable energy integration<br>• Introduction of innovative business processes and consumer packages aimed at the reduction of oil dependance<br>• Reduction of CO2 emissions in Europe<br>• Establishing cooperation with transport ministries, the European Commission and policy makers to ensure the implementation of the learnt in order to introduce the Pan-Cohesion EV charging infrastructure<br>• Presentation of best strategies and approaches to the infrastructure and service use<br>• Support to the expansion of regional EV use – linking Western and Pan-European Europe by presenting the immaculate and pleasant long distance driving experience fully based on electricity<br>• Implementation of network plans and ICT studies to facilitate the pilot two-tier project of installing fast and ultra fast charging stations, which will result in the Pan-Cohesion plan and the wide electric vehicle usage guide |

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| | • Installation of 26 fast and 4 ultra-fast charging stations in Croatia |
| **Useful links** | • Structural Funds<br>• Connecting Europe Facility |
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| **Project title** | **bigEVdata**<br>EUROPSKI STRUKTURNI I INVESTICIJSKI FONDOVI<br>Operativni program KONKURENTNOST I KOHEZIJA |
| **Project duration** | March 2018 - February 2022 |
| **Total approved funding** | The European Union has co-funded HEP's share in the project with HRK 7,684,366.57 from the IRI fund. |
| **Consortium members** | HEP, FER, NEOS |
| **Brief project description** | Under the **bigEVdata** project HEP shall develop an innovative and comprehensive solution which will integrate big-data modelling of charging station infrastructure users' behaviour and habits and facilitate the efficiency of usage and management of the EV charging station network.<br><br>The system shall consist of a group of intelligent functionalities which aim is to increase users' efficiency by means of group functionality, analysis and customer and team members classification, personalized recommendations depending on the context as well as geospatial analyses and recommendations. The system includes predictive analytical methods which will enable each user automative knowledge disclosure within a group of client and staff data (their habits and geospatial location), personalized recommendations for business improvement (the efficiency of clients' processing) and the analyses and anomaly detection in data and habits. |
| **Target groups affected by the project** | • Providers of vehicle charging services - e-mobility<br>• Manufacturers of EV charging infrastructure management software<br>• Regulators<br>• EV producers<br>• Charging infrastructure management operators<br>• Scientific community<br>• Wider community, citizens |
| | Project deliverables will be presented to the wider community via the project website, in 3 well-planned dissemination workshops, project presentations and appendices as well as scientific papers. The bigVdata trademark protection has also been foreseen. |
| **Infrastructure to be procured via the project** | • 12 rapid charging stations (50 kW)<br>• 10 fast charging stations (22 kW)<br>• 10 wireless charging stations<br>• 10 wallbox charging stations |

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| **Useful links** | • Structural Funds<br>• Connecting Europe Facility |
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