Partner search template[[1]](#footnote-1)

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| **Organisation** | |
| **Description** | The E.ON group have 3 electricity distribution companies in Hungary: E.ON Észak-dunántúli Áramhálózati Zrt. („EED”), E.On Dél-dunántúli Áramhálózati Zrt. („EDE”) and ELMŰ Hálózati Kft.  As part of E.ON Hungária Group the 3 DSOs reliably provide electricity to the northwestern and to the southwestern part of Hungary, and also to the capital (Budapest) with its agglomeration. The 3 DSOs together cover over 40 587 km2, serving around 3,2 million customers.  All 3 DSOs accommodate multiple Research & Development activities in context of European and Hungarian projects. The DSOs has already been participated in European R&D activities as Demonstrators, as Consortium members, so as Work Package leaders.  Mentioning only a few innovative developments and projects: IElectrix, CEP-Clean Energy Package, Célzott Lendület, OneNet, INTERRFACE, ANM4L, AI usage to map the parts of the grid in need of reconstruction, Implementation of Smart Pillars used in charging E-vehicles and in the public lighting system. |
| **Type of organization** | Distribution System Operator (DSO) |
| **Up to 5 keywords describing your sector or specialisation** | Electricity, Flexibility, Sustainability, Distributed energy resources, Renewable integration |
| **Experience** | |
| **Participation in EU funded projects** | * H2020 [**INTERRFACE**](http://www.interrface.eu/) ([LC-SC3-ES-5-2018-2020](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-es-5-2018-2020;freeTextSearchKeyword=LC-SC3-Es;typeCodes=0,1;statusCodes=31094501;programCode=null;programDivisionCode=null;focusAreaCode=null;crossCuttingPriorityCode=null;callCode=Default;sortQuery=openingDate;onlyTenders=false;topicListKey=topicSearchTablePageState)) – demonstration for a local P2P trading platform for medium voltage and low voltage grids, where a dynamic tariff was proposed to make the market asset friendly as well. * H2020 [**OneNet**](https://onenet-project.eu/) ([LC-SC3-ES-5-2018-2020](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-es-5-2018-2020;freeTextSearchKeyword=LC-SC3-Es;typeCodes=0,1;statusCodes=31094501;programCode=null;programDivisionCode=null;focusAreaCode=null;crossCuttingPriorityCode=null;callCode=Default;sortQuery=openingDate;onlyTenders=false;topicListKey=topicSearchTablePageState)) – development of the framework and platforms for flexibility provision at the distribution level. * ERA-NET Active Network Management for All [**ANM4L**](https://anm4l.eu/) ([ERA-Net RegSys](https://www.era-learn.eu/network-information/networks/en-sgplusregsys/1st-regsys-joint-call-2018)) – analysis and demonstration of the options of active network management solutions to solve MV congestions, such as photovoltaic power generation control. * H2020 [**IELECTRIX**](https://cordis.europa.eu/project/id/824392) ([LC-SC3-ES-3-2018-2020](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-es-3-2018-2020;freeTextSearchKeyword=;typeCodes=1;statusCodes=31094501;programCode=H2020;programDivisionCode=31047893;focusAreaCode=null;crossCuttingPriorityCode=null;callCode=H2020-LC-SC3-2018-2019-2020;sortQuery=openingDate;onlyTenders=false;topicListKey=topicSearchTablePageState)) – use of DSO owned battery energy storage system and the Hungarian legacy direct load control system as a network development alternative to solve medium voltage congestions, such as high voltage drop due to seasonal loading and voltage rise due to the local photovoltaic generation. |
| **Project idea** | |
| **Reference of Call/topic**  **of interest** | [HORIZON-CL5-2023-D3-03-03](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/horizon-cl5-2023-d3-03-03) System approach for grid planning and upgrade in support of a dominant electric mobility (vehicles and vessels) using AI tools |
| **Description of the project idea** | * AI-based prediction of most convenient locations that optimize grid resources and upgrades through grid calculation on low voltage and medium voltage electricity systems * Creating a tailored flexibility product for e-mobility integration |
| **Up to 5 keywords describing your project idea** | Artificial Intelligence, electricity network calculation, e-mobility |
| **Expertise and contribution offered** | |
| **Contribution offered** | * Grid data, measurements (as identification of congestions and characterization of peak periods) for the identification and description of areas where innovative solutions could operate. Complete knowledge on the grid resource and upgrade optimization of current practice, shortcomings. * Data collection for the different areas as E.ON distributes power for the half of Hungary, including capital Budapest. * Advanced flexibility platform that capable of integrating further products, such as smart charging, * Contacts with charging point operators and service providers due to connection processes. * Expertise on batteries as a network development alternative. |
| **Role offered (Coordinator, Work package leader or**  **partner)** | Demonstrator, Work package leader |
| **Expertise needed** | |
| **Description of the expertise needed** | * AI based network calculation technology provider / IT developer * Additional analysis that connects our interest with the novel charging technologies, cybersecurity and HDV considerations that are also important scopes of the call but cannot be done locally. |
| **Expected contribution** | AI developments for network calculation purposes |
| **Deadline for the search** | July 2023 |
| **Contact details** | |
| **Organisation** | [*E.ON Észak-dunántúli Áramhálózati Zrt.*](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/org-details/951214884;searchKeyword=E.ON;isOrganisation=true;isPerson=true;topics=;programmes=;organisationType=;country=20000913;city=;professionalProfile=;hasPartnerSearch=false;type=ORGANISATION,PERSON;orderBy=;sortQuery=)*;* [*E.ON Dél-dunántúli Áramhálózati Zrt.*](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/org-details/951206057;searchKeyword=E.ON;isOrganisation=true;isPerson=true;topics=;programmes=;organisationType=;country=20000913;city=;professionalProfile=;hasPartnerSearch=false;type=ORGANISATION,PERSON;orderBy=;sortQuery=)*;* [*ELMŰ Hálózati Kft.*](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/org-details/888090000;searchKeyword=h%C3%A1l%C3%B3zati;isOrganisation=true;isPerson=true;topics=;programmes=;organisationType=;country=20000913;city=;professionalProfile=;hasPartnerSearch=false;type=ORGANISATION,PERSON;orderBy=;sortQuery=)*;* |
| **Contact person** | István Táczi |
| **Department (if needed)** | E.ON Észak-dunántúli Áramhálózati Zrt.  Department of Coordination and Innovation |
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1. [Based on the Horizon Europe – Guide to an adequate partner search](https://www.horizoneuropencpportal.eu/sites/default/files/2021-05/Guide%20for%20PS%20tool.pdf) [↑](#footnote-ref-1)