



NON-PROFIT LIMITED LIABILITY COMPANY FOR
QUALITY CONTROL AND INNOVATION IN BUILDING

QUALITY CAN BE MEASURED





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SUSTAINABILITY AND ENERGY EFFICIENCY

COM ACTIVITIES, EXPERIENCES AND BEST PRACTICES

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CEESEN PARTNERSHIP CONFERENCE
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EXPERT IN THE SECTOR - A WIDE RANGE OF ACTIVITIES

SECTORAL KNOWLEDGE CENTER ADAPTED TO THE CONSTRUCTION SECTOR EXPANSION



ON - SITE AND LABORATORY TESTS
WITH NATIONAL COVERAGE



TASKS OF EXPERTS, CONTRIBUTORS AND GRANT
MANAGERS OF STRATEGIC PROGRAMS



COMPREHENSIVE MANAGEMENT OF MAJOR
INVESTMENTS, TECHNICAL AND DESIGN CONTROL



INNOVATION, TECHNICAL DEVELOPMENT AND
DEMONSTRATION COLLABORATIONS



CERTIFICATIONS, TECHNICAL
EVALUATIONS



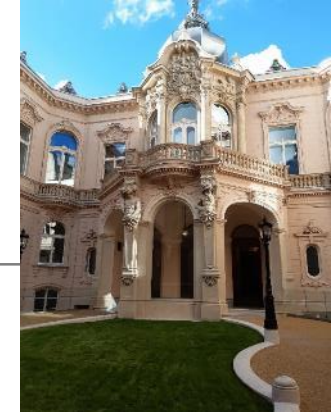
TECHNICAL REGULATIONS FOR CONSTRUCTION
(WORKING COMMITTEES, CEN, CPR REVIEW)



EXPERTISE IN NUCLEAR
INSTALLATIONS



KNOWLEDGE SHARING, TRAINING AND EDUCATION



ÉMI - SCIENTIFIC TECHNOLOGY INDUSTRIAL PARK

FOCUS: QUALITY, SUSTAINABILITY, CIRCULAR SOLUTIONS



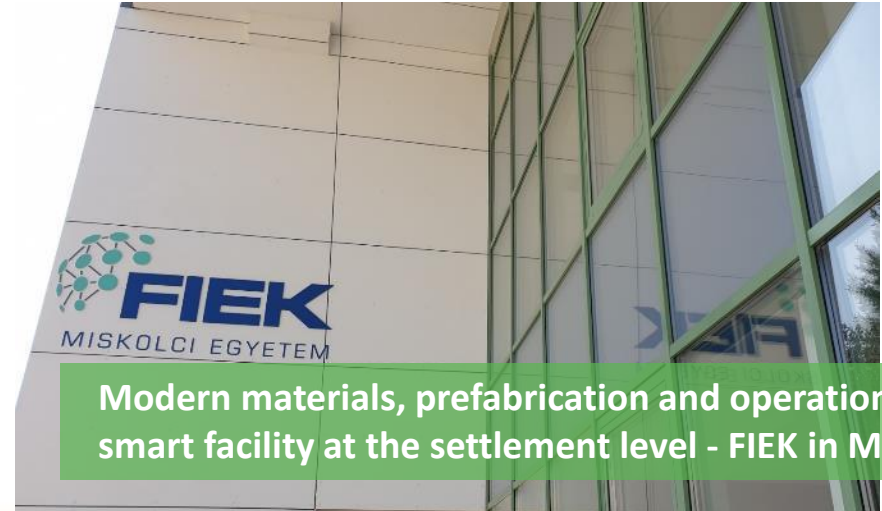
Science and Technology Industrial Park and Construction Knowledge Center in Szentendre



Establishment of a sample house park and visitor center

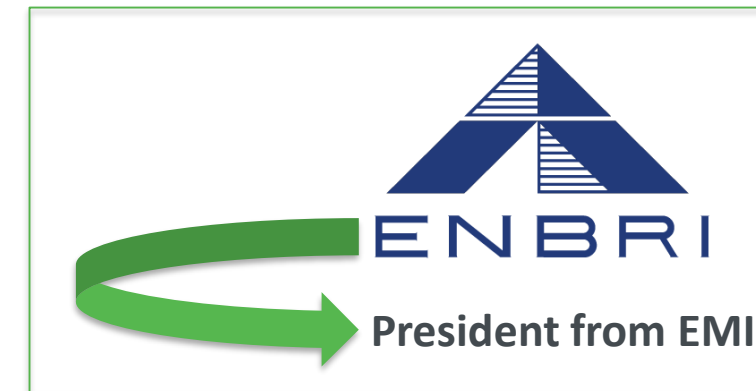


Construction Testing Laboratory and Mobile Laboratories:
More Effective Support for Industry



Modern materials, prefabrication and operation of a
smart facility at the settlement level - FIEK in Miskolc

PRIORITY INTERNATIONAL COOPERATION



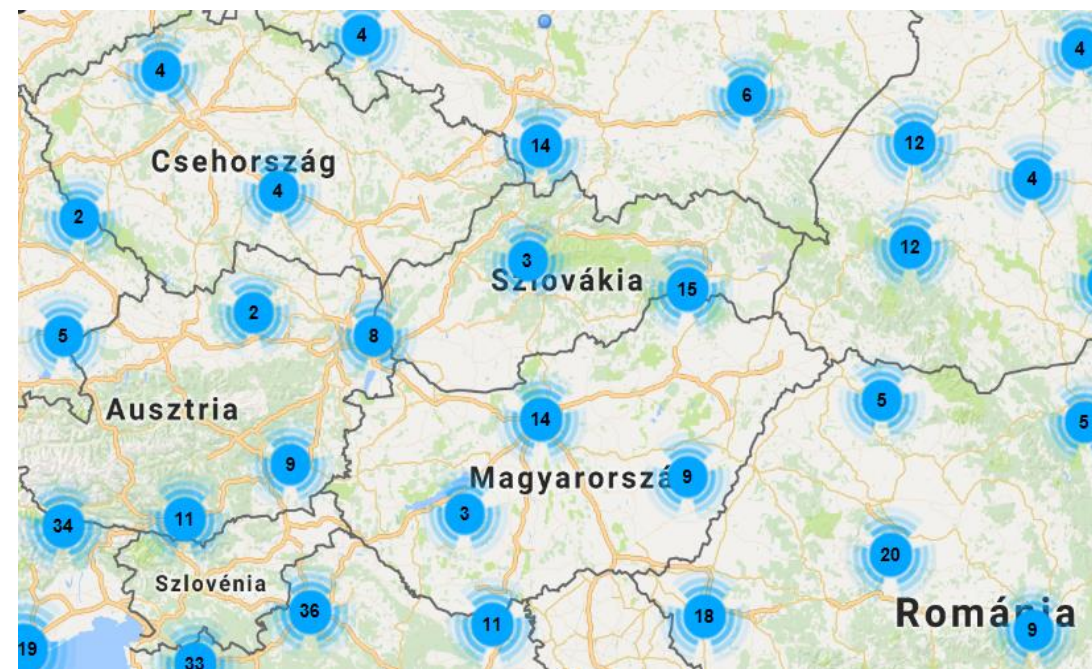
NATIONAL COORDINATOR

- EMI is the Country Coordinator from July 2016
- We support local and county governments in the strategy-making processes of sustainable settlement development
- Participating in developing SECAP and other energy efficiency strategies



SUSTAINABLE ENERGY AND CLIMATE ACTION PLANS IN OUR COUNTRY

- CITY-SEC project: **13 municipalities** join the Covenant of Mayors and prepare SEAPs.
- MANERGY project: **16 settlements** of the Mecsek Energy Circle joined the Association of Mayors and prepared a joint SEAP document.
- **222 signatories** from Hungary joined the Association of Mayors.



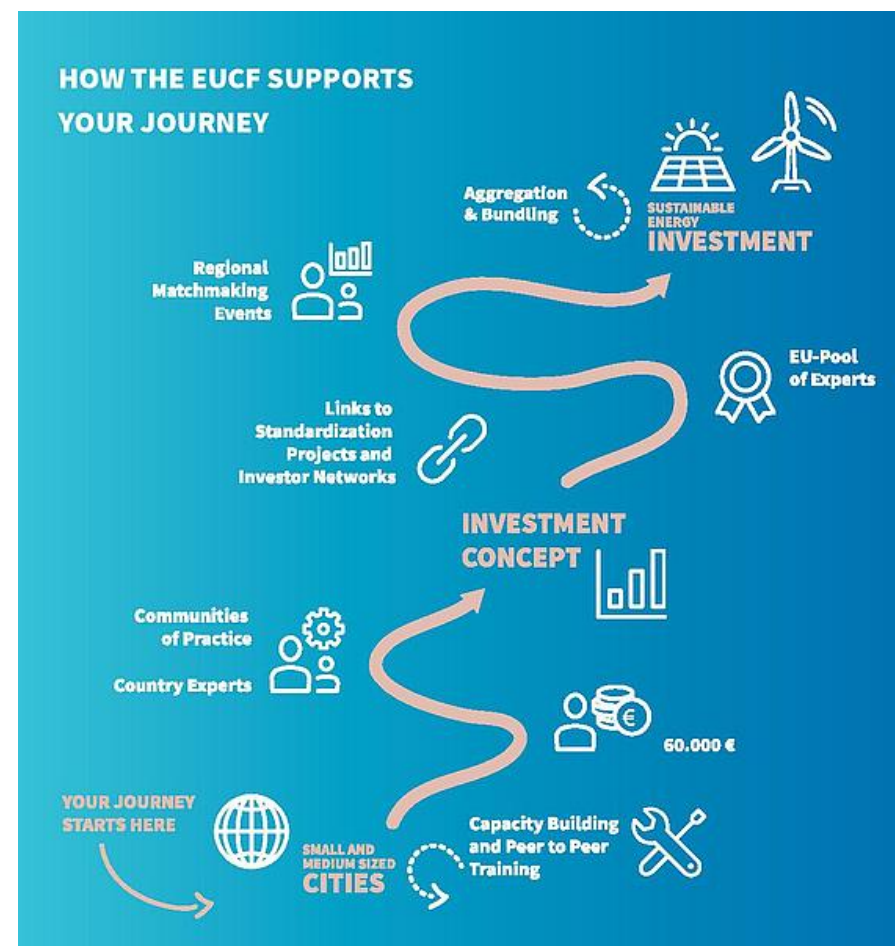
ACTIVITIES AND RESULTS

- SECAP forum with more than **50 regional actors**
- Participation in the preparation of **three county SECAP** concepts
- Preparation of SECAP documents in **eight cities**
- SECAP review for **three cities** with county status
- Continuous professional support for **local municipalities**
- Participation in the planning, support and quality assurance of **energy efficiency projects**

EUROPEAN CITY FACILITY (EUCF)

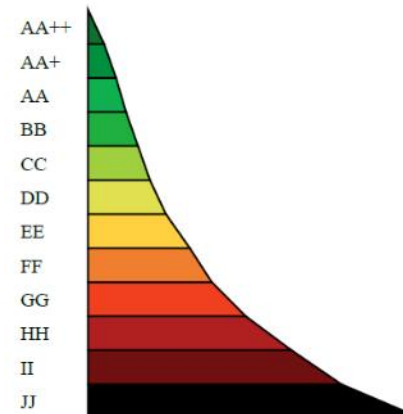
Vezsprem Five Consortium

- Five cities with 350.000 inhabitants in Veszprem County
- Reduce the operating costs of urban infrastructure, minimize CO2 emissions and shape the energy-conscious attitude of users
- Total investment value 122,039,947 EUR
- Impact 68.3 GWh/year energy savings, 17.13 GWh/year renewable energy production, 20,140 tCO2/year reduction
- Next step is to apply for ELENA tender with 77 projects (1.5 M EUR)



NESICA – CROSS BORDER COOPERATION PROGRAM 2014-2020

- Building assessments 15 municipal buildings in 3 cities
- Preparation of energy certificates based on energy consumption, architectural plans, local assessments and calculation of cooling surfaces
- Collecting best practices of energy efficiency and renewable solutions
- Energy efficiency study - modernisation guideline for each building
- Energy efficiency strategy – analyse regional and local plans



ESTABLISHMENT AND SUPPORT OF ENERGY COMMUNITIES

- Construction of a measurement, **data transmission and accounting system**
- Establishment of an electricity generation unit based on **renewable energy sources**
- Establishment **electric charging infrastructure** for vehicles
- Installation of **energy storage**
- Developing the **governance structure** of the Energy Community
- Development of accounting frameworks and **business model**



CHALLENGES AND RISKS

- Municipalities do not have **adequate data** and do not have the **necessary expertise** in-house - the involvement of external experts is required
- **SECAP** documents of the cities contains **strong estimates** and not accurate calculations - accurate planning is difficult
- **Funding opportunities**, tenders have been significantly **restructured** after the pandemic - development projects has to be redesigned
- Several **tax reallocation** measures has been implemented in Hungary - most municipalities are in a very difficult financial situation, insufficient financial resources
- Large **increase** in raw material, fuel and energy **prices** in the last months - the planned projects have become significantly more expensive, and municipalities have been forced to quit non-critical developments

INTERNATIONAL COOPERATION

ONGOING PROJECTS

- **RURITAGE** - H2020 PROJECT, RURAL DEVELOPMENT
- **BIMzeED** - ERASMUS+ PROJECT
- **MINISTOR** H2020 PROJEKT, DEVELOPMENT OF A HEAT STORAGE SYSTEM
- **POCITYF** - H2020 PROJEKT
- **IS-SusCON** - ERASMUS+ PROJEKT, ATTITUDE FORMATION, EDUCATION
- **METABUILDING LABS** H2020 PROJECT
- **EPBD** - H2020) PROJECT
- **BUS-GOCIRCULAR** - H2020 PROJECT



CONCERTO PIME'S PROJECT (FP7)

Municipality – Research institute – Industry collaborations






**solar
decathlon
europe**
19
 SZENTENDRE
 MAGYARORSZÁG
Okosan építeni? Művészet.


ÉMI
**NEMZETI
MINTAHÁZPARK**



ÉMI NATIONAL SAMPLE HOUSE PARK - EXPECTED OPENING: 2023

Complex Construction Information Center | Tangible innovations | Information and exhibition hall





THANK YOU FOR YOUR ATTENTION!

www.emi.hu