

PERSPECTIVES FROM THE CZECH REPUBLIC

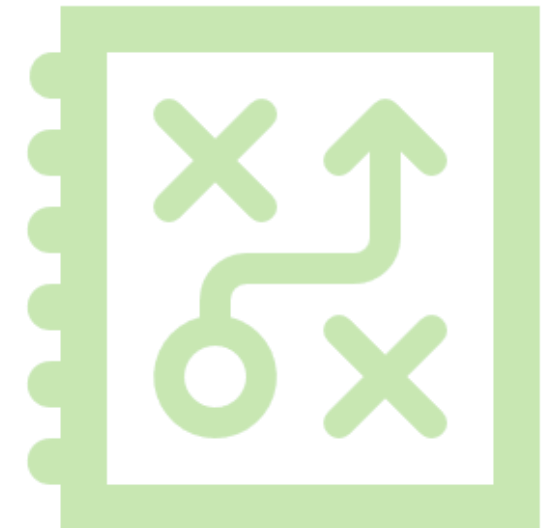
INITIATION OF ENERGY COMMUNITIES IN THE CZECH REPUBLIC, CONGREGATE



Jiří Karásek, senior consultant
SEVEn, The Energy Efficiency Center

CONTENT

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- ❑ Practical examples – The capital city of Prague



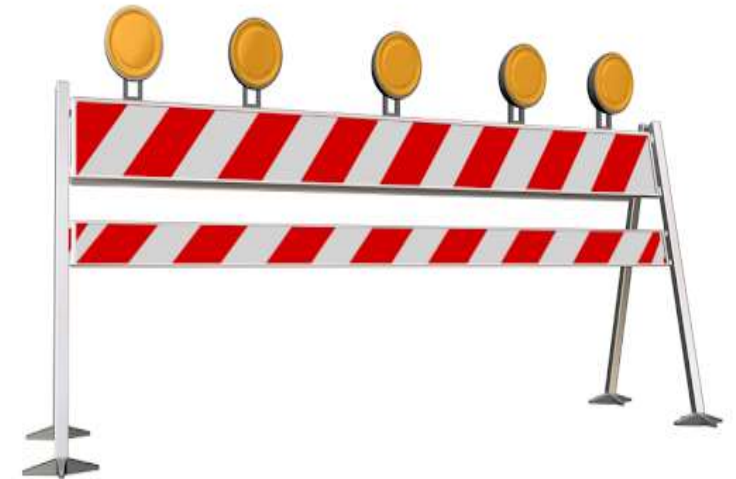
NATIONAL BARRIERS

National legal Framework & policies

- Legislative for consumer **protection**
- **Ownership of technology** – operation and development
- **Sharing** energy and community ownership principles

Correct and effective use of technology

- Energy **production, storage**
- Energy **efficiency**
- Demand response



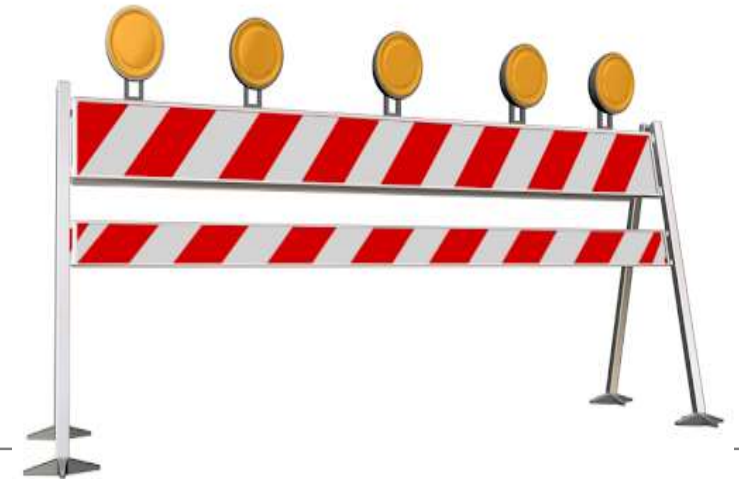
NATIONAL BARRIERS

So far, no any official draft of amended legislation yet

Several working groups established / legislative works underway

Major discussions related to:

- whether to introduce lower distribution tariffs for „Mieterstrom“ models
- which stipulations put into law and into decrees
- how to incorporate new legal entities into electricity market (which is to be „upgraded“ by central datahub from 2024 onwards)



OBJECTIVE OF THE PROJECT

Enable and motivate municipalities to develop **public-private partnerships** in order to increase the share of renewable energy in the local energy mixes



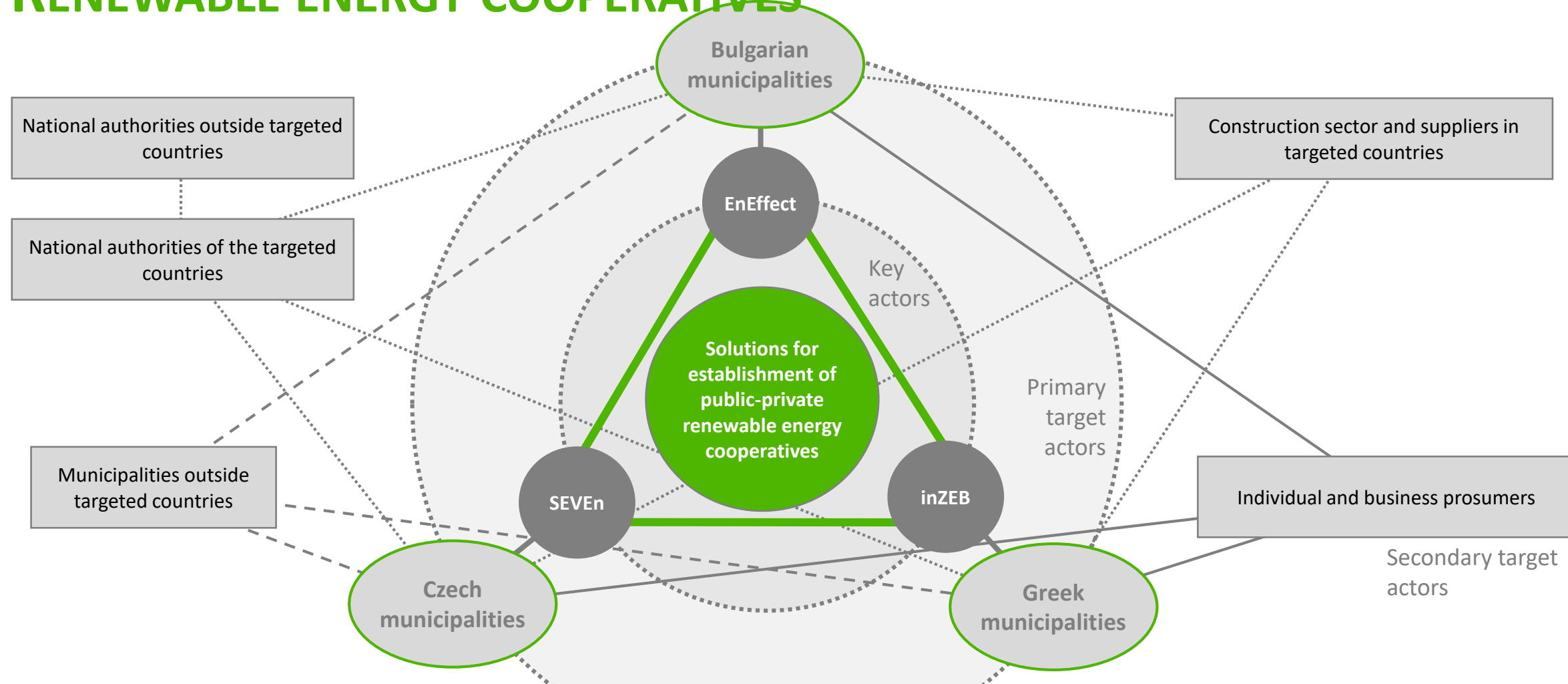
- ❑ **National models** for systematic multi-level communication and an engagement campaign in support of building renovation are developed.
- ❑ **Policy recommendations** and **feasibility studies** for renewable energy cooperatives are developed



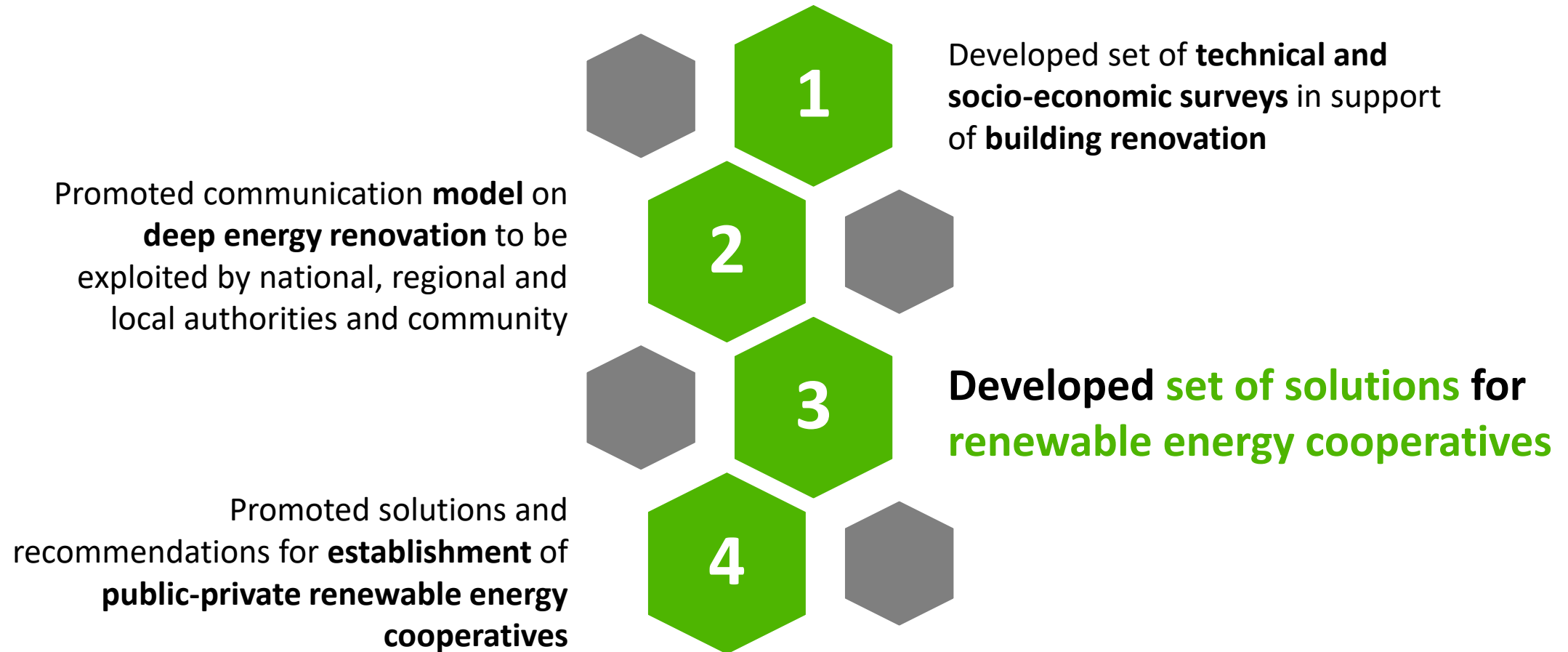
Support the implementation of national **long-term renovation strategies**



RENEWABLE ENERGY COOPERATIVES



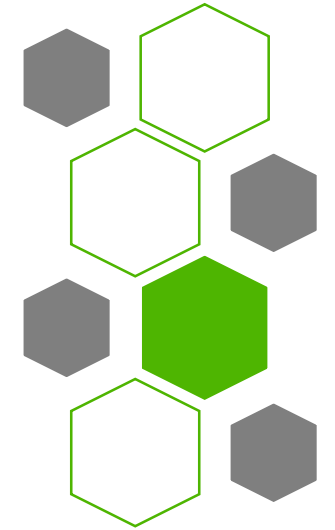
PROJECT ACTIVITIES



PROJECT ACTIVITIES

☐ Developed **set of solutions** for **renewable energy cooperatives**

- Development of feasibility studies for the establishment of public-private renewable energy cooperatives
 - **Elaboration** of a set of general solutions for renewable energy cooperatives
 - Establishing **partnerships** with **municipalities**
 - Collection and **analysis** of data about the building stock in the pilot municipalities
 - Elaboration of suitable solutions for establishments of public-private renewable energy cooperatives at **concrete locations**.



SELECTION OF RENEWABLES

❑ Systems based on renewable energy technology

- **Photovoltaic panels** ⚡
- Solar thermal collectors 🔥
- **Heat pumps** 🔥
- Wind turbines ⚡
- Small water power plant ⚡
- **Biomass** 🔥 ⚡
- **Biogas plants** 🔥 ⚡

Commonly used in CZR

Focus on Combined heat and electric power generation

❑ Other technical solutions: (Waste) Heat recovery 🔥

PROJECT ACHIEVEMENTS

Completed set of general solution for renewable energy cooperatives (Czech republic)

- ❑ National legal Framework & policies
- ❑ Legal structures for energy communities – cooperatives
- ❑ Current status
 - Statistical data on existing energy communities – cooperatives
 - RES technologies adopted
 - Energy sectors
- ❑ Case studies
 - The capital city of Prague
 - The municipality of Lioměřice



PRACTICAL EXAMPLES - PŘEŠTICE

🌐 Southern Bohemia 🧑 Population of 8,000

No Energy Management at the beginning



Achievements:

- ✓ Energy consumption **data consolidated**
 - ✓ Heat and Electricity sources
 - ✓ Renewable energy – usage level
 - ✓ Energy management administration
- ✓ Energy **savings potential calculated**
 - ✓ Number of city buildings
 - ✓ Experiences in energy management
 - ✓ Potential opportunities for RES installation
 - ✓ Potential public-private partnerships



Meeting the mayor and vice-mayor



On-site visit in elementary school

- ✓ Energy efficiency **action plan** adopted



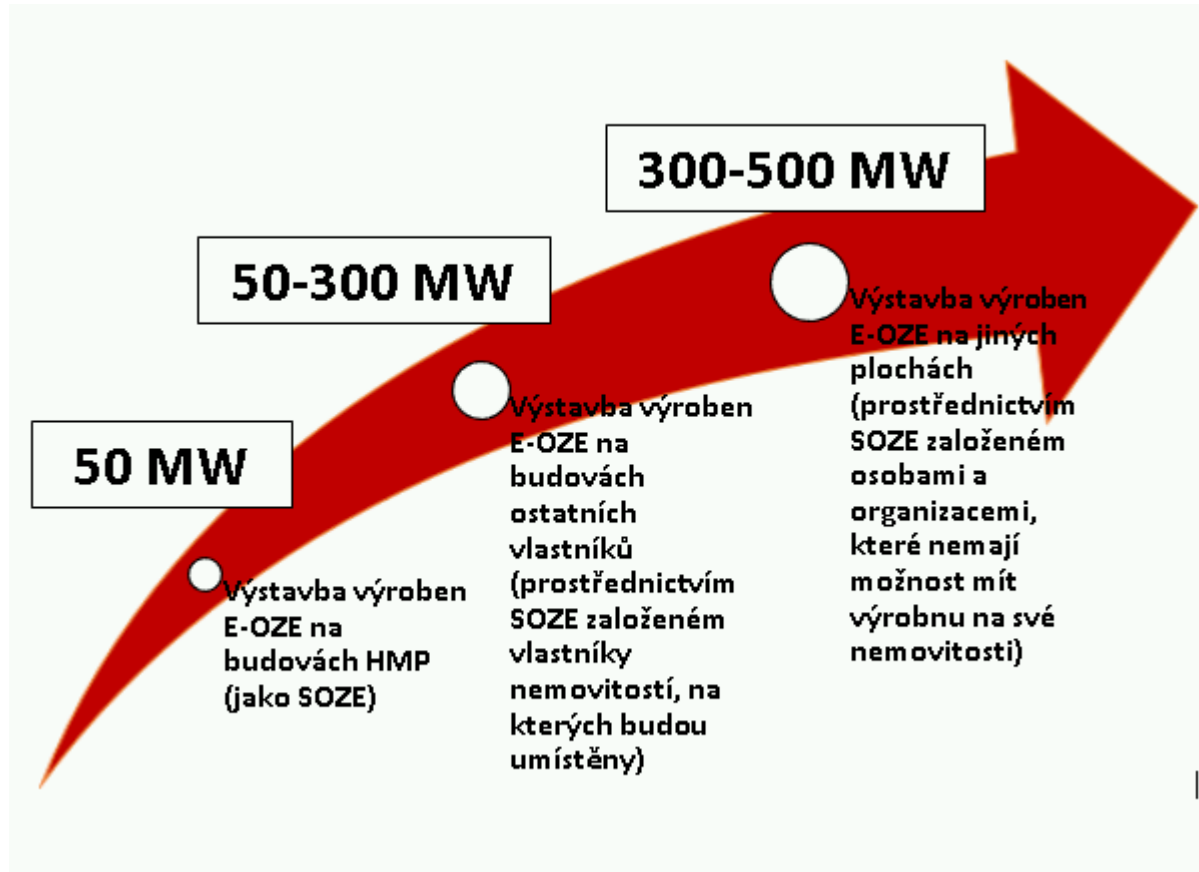
EXAMPLES OF CONCRETE INITIATIVES

Prague plans major expansion of EC concept (esp. In the form of „Mieterstrom“ model on apartment buildings) in the city as part of its Carbon Mitigation Strategy by 2030); in 2022, first projects are to be operational, number shall increase steeply (goal: 500 MW of installed capacity in E-RES installations, mostly owned by ECs)

Special nation-wide investment subsidies shall be introduced for establishing energy communities from Modernization Fund – strong impetus for market growth (estimate: several hundred of new ECs)



LONG-TERM VISION OF ECs CONCEPT IN PRAGUE



THANK YOU FOR YOUR ATTENTION

Jiří Karásek, senior consultant, SEVEN
jiri.karasek@svn.cz

Sídlo / Main Address:

Americká 17, 120 00 Praha 2, Czech Republic
phone: +420 224 252 115 / fax: +420 224 247 597

Pobočka / Regional branch:

Žižkova 12, 370 01 České Budějovice, Czech Republic
phone: +420 386 350 443 / fax: +420 386 350 370

E-mail: seven@svn.cz

Internet: www.svn.cz

