



**Czech
Republic**

**Action Plan for Sustainable
Roll-out of Financing
Mechanisms**

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1. ABOUT E-FIX PROJECT

The private sector is expected to play an important role for reducing energy demand and reaching of energy targets. About 40 % of the final energy consumption of the EU-28 can be accounted to industry and services (public sector included). In the EU a combination of regulatory mechanisms and incentive schemes are used to trigger energy efficiency and renewable energy development in the private sector. Still, progress is slow and although energy efficiency and renewable energy projects offer a range of financial and non-financial advantages both for public and private actors, little is done to exceed minimum legal requirements. Main barriers for the realisation of private energy efficiency projects can be divided in barriers with regard to the development and implementation of energy projects, on the one hand, and barriers to access funds for financing innovative sustainable energy projects, on the other.

In the target countries of the E-FIX project there is considerable idle potential for energy efficiency and renewable energy products and services. However, both, potential energy project developers and financiers, to a large extent face barriers regarding the accurate assessment of energy project feasibility and achieving investment security.

The underlying approach considered by this project is that an innovative Energy Financing miX (E-FIX) is needed in order to access new sources of finance and facilitate an increased implementation of sustainable energy projects. The E-FIX project will trigger private investments using a mix of innovative financing mechanisms, to be specific: credit lines for energy performance contracting, crowdfunding models and leasing models for energy efficiency and renewable energy projects.

The overall objective of the E-FIX project is to prepare the European market – with a focus on countries of various EU enlargement rounds, as well as markets of countries, which have recently reached EU association status – for the intensified usage of these innovative financing mechanisms in the energy sector in order to facilitate the increase of investments in energy projects and services. The E-FIX project will thus initiate a comprehensive roll-out of energy financing mechanisms in the 6 partner countries (PL, CZ, AT, HR, AM and GE). The 3-dimensional roll-out will cover capacity building, strategy development and piloting of model solutions.

The E-FIX project will result in increased investments in sustainable energy projects in the partner countries as well as lay the groundwork for better-informed and equipped stakeholders. The trainings of these stakeholders will provide them with the capacity to act as E-FIX Ambassadors, multipliers to promote and implement the E-FIX approach. On a larger scale, the E-FIX approach will be disseminated EU-wide, activating dormant private finance thereby contributing to the general growth of the EU markets of energy technology and services as one step into the direction of a low carbon economy.



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2. OBJECTIVE

2.1. Objective scope and target values

The objectives and values below are based on strategic policy materials at national level. The aim of the action plan is to contribute to the fulfillment of the national objectives, through the tools and mechanisms created within the E-FIX project.

Objective 1: Energy renovation of buildings

A lengthy but thorough scenario	2020	2030	2050
final energy consumption in a year [PJ]	344	310	240
<i>family houses</i>	142	126	91
<i>residential houses</i>	79	71	56
<i>public and commercial buildings</i>	124	113	93
cumulative investment costs [mil. euro]	3 288	15 600	39 193
Energy cost savings [mil. euro]	727	6 409	39 301
<i>No growth, no discount</i>			
Total induced GDP [mil. euro]	4 462	16 686	40 220
Average induced employment	15 940	22 049	22 938
Total state budget revenues [mil. euro]	1 109	5 388	13 625
Total social insurance [mil. euro]	127	614	1 551
percentage of renovated buildings per year	1->1,5%	1,5%	1,5%
share of shallow renovations	45%	5%	5%
share of medium energy saving renovations	50%	10%	10%
share of thorough renovations	5%	85%	85%

Source: NAPEE National Action Plan for Energy Efficiency of the Czech Republic

https://www.mpo.cz/assets/cz/energetika/energeticka-ucinnost/strategicke-dokumenty/2017/11/17_III_Aktualizace-NAPEE-2016_vlada_final.pdf

Note: NAPEE contains an evaluation of 5 scenarios - values are for the scenario "Slow but thorough recovery"



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Objective 2: Development of renewable energy sources

2.1 Development and structure of RES on primary energy sources

Renewable and secondary energy sources [PJ]	2020	2025	2030
Biomass	104,7	116,6	130,4
Biogas	27,1	28,8	31,1
Biodegradable part of MSW	4,7	9,9	13,3
Biodegradable part PRO and alt. fuel	1,0	1,0	1,0
Biofuels	28,1	28,1	28,1
Hydropower plants	9,1	9,1	9,1
Wind power plant	3,6	4,8	5,8
FTV	8,7	12,8	12,8
Geothermal power plants	0,7	1,0	1,2
Heat pumps	6,6	8,9	11,2
Solar collectors	1,4	3,0	3,5
Total	195,6	223,9	247,5

2.2 Development and structure of gross electricity production from RES

Renewable and secondary energy sources [GWh]	2020	2025	2030
Biomass	2 331	2 541	3 243
Biogas	3 121	3 416	3 696
Biodegradable part of MSW	138	310	425
Wind power plant	1 014	1 328	1 598
Hydropower plants	2 523	2 525	2 526
FTV	2 404	3 567	3 567
Geothermal power plants	18	55	69
Total	11 549	13 742	15 126

Source: National energetic conception of the Czech Republic
<https://www.mpo.cz/assets/dokumenty/52841/60959/636207/priloha006.pdf>



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Objective 3: Clean mobility

Parameter	2020	2025	2030
Electromobility - number of public charging points	1 300	acc. to market trends	
Total BEV / PHEV	6 000 / 11 000	35 000 / 66 000	250 000
Natural gas - number of vehicles	50 000	130 000	200 000
Number of CNG filling stations	300	450	500

Source: National action plan for Clean mobility

<https://www.mpo.cz/assets/dokumenty/54377/62106/640972/priloha001.pdf>



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3. ACTIVITIES FOR ACTION PLAN IMPLEMENTATION

The main focus of the activities of the E-FIX project and thus the Action Plan in the Czech Republic follows on from the previous analysis of the conditions and nature of the pilot action, which focuses on the use of crowdfunding elements to finance energy saving measures. An important aspect is the appropriate selection of projects in terms of mission and nature of their bearers. Thus, in order to have the potential to fulfill a certain social or social benefit, these are typically, for example, social care providers or community service projects of general interest. Confirmation of this approach was verified, among other things, during the presentation of the pilot event and the subsequent discussion of experts at a workshop at the Ministry of Industry and Trade in Prague on 11 March. 2020.

The main tasks of the Action Plan are defined as follows:

1. Energy Financing Competence Centre

Activities:

- a) Identification of experts for involvement
- b) Forming a platform
- c) Creating a portfolio of services
- d) Definition of the operating model (organization, economy, sustainability)

2. Capacity building of stakeholders and key actors

Activities:

- a) creation and the implementation of the educational program (direct - workshops, seminars; indirect - webinars, brochures, press materials)
- b) making recommendations for modifying national and regional support schemes in order to raise interest and awareness of innovative financial instruments

3. Examples of good practice

Activities:

- a) documentation on the design and implementation of pilot actions
- b) presentation of good practices' examples

4. Dissemination and promotion

Activities:

- a) information campaign for various target groups (public x private entities)
- b) acquisition for the competence platform (experts x clients)
- c) marketing support for tasks 1,2,3



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Table 1: ACTION PLAN – INNOVATIVE ENERGY FINANCING MECHANISM DEVELOPMENT IN Czech Republic

Nr.	Objectives (what do we want to reach?)	Tasks & Activities (what activities are necessary to achieve the objectives?)	Success criteria (how do you define the success of the activity – indicators, e.g. MWh savings, EUR investments)?	Time Frame (by when do the tasks need to be completed?)	Resources (what or who can help or will be responsible to achieve the tasks/objectives?)
1.	To create a functional platform for innovative financing of energy projects support	Energy Financing Competence Centre (EFCC)	Functional EFCC		JAIP
1a		Identification of experts for involvement	List of experts	6/21	JAIP
1b		Forming a platform	Established platform	6/21	JAIP
1c		Creating a portfolio of services	Portfolio of services	12/21	JAIP
1d		Definition of the operating model (organization, economy, sustainability)	Functional model of EFCC	12/21	JAIP



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2.	To create a functional connection of stakeholders and key actors	Capacity building of stakeholders and key actors	Stakeholders and key actors connection		JAIP
2a		creation and the implementation of the educational program	<input checked="" type="checkbox"/> direct workshops <input checked="" type="checkbox"/> seminars <input checked="" type="checkbox"/> indirect / general webinars <input checked="" type="checkbox"/> brochures <input checked="" type="checkbox"/> press materials	12/24	JAIP
2b		making recommendations for modifying national and regional support schemes in order to raise interest and awareness of innovative financial instruments	<input checked="" type="checkbox"/> recommendations on national level <input checked="" type="checkbox"/> recommendations on regional level	6/25	Ekoport
3.	To introduce and disseminate good practices examples	Examples of good practice	Good practices dissemination		Ekoport
3a		documentation on the design and implementation of pilot actions	<input checked="" type="checkbox"/> pilot actions plans	6/25	Ekoport
3b		presentation of good practices' examples	<input checked="" type="checkbox"/> presentations actions	6/25	Ekoport



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4.	To disseminate and promote project results	Dissemination and promotion			JAIP
4a		information campaign for various target groups (public x private entities)	X campaigns X target groups	12/24	JAIP
4b		acquisition for the competence platform (experts x clients)	X connected experts X connected clients	12/24	JAIP
4c		marketing support for tasks 1,2,3	X marketing support activities	12/24	JAIP



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4. MEASURING SUCCESS OF IMPLEMENTATION

Task/activity	Target indicator	Method of measurement and validation
Energy Financing Competence Centre (EFCC)	Functional EFCC	list of experts of EFCC established platform portfolio of services functional model of EFCC
Capacity building of stakeholders and key actors	3 direct workshops 1 seminars 1 indirect / general webinars 1 brochure 3 press materials 1 recommendations on national level 1 recommendations on regional level	workshop evidence seminar evidence webinar evidence brochure published articles document of recommendations document of recommendations
Examples of good practice	1 pilot action plan 5 presentations of examples	pilot action pain presentations evidence
Dissemination and promotion	2 information campaigns 10 connected experts 10 connected clients	campaigns evidence list of experts confirmation from clients



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5. IMPLEMENTATION STRATEGY

5.1. Resources needed to implement the Action Plan

Nr.	Tasks & Activities (what activities are necessary to achieve the objectives?)	Resources
5.	Energy Financing Competence Centre (EFCC)	
1a	Identification of experts for involvement	human
1b	Forming a platform	human
1c	Creating a portfolio of services	human
1d	Definition of the operating model (organization, economy, sustainability)	human
6.	Capacity building of stakeholders and key actors	
2a	creation and the implementation of the educational program	human
2b	making recommendations for modifying national and regional support schemes in order to raise interest and awareness of innovative financial instruments	human Institutional support
7.	Examples of good practice	
3a	documentation on the design and implementation of pilot actions	human
3b	presentation of good practices' examples	human
8.	Dissemination and promotion	
4a	information campaign for various target groups (public x private entities)	Human financial
4b	acquisition for the competence platform (experts x clients)	human
4c	marketing support for tasks 1,2,3	human



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5.2. Time schedule

Nr.	Tasks & Activities	responsibility	2021	2022	2023	2024	2025
1	Energy Financing Competence Centre (EFCC)	JAIP					
1a	Identification of experts for involvement	JAIP	■				
1b	Forming a platform	JAIP	■				
1c	Creating a portfolio of services	JAIP	■	■			
1d	Definition of the operating model (organization, economy, sustainability)	JAIP	■	■			
2	Capacity building of stakeholders and key actors	JAIP					
2a	Creation and the implementation of the educational program	JAIP		■	■	■	■
2b	Making recommendations for modifying national and regional support schemes	Ekoport		■	■	■	■
3	Examples of good practice	Ekoport					
3a	Documentation on the design and implementation of pilot actions	Ekoport		■	■	■	■
3c	Presentation of good practices' examples	Ekoport		■	■	■	■
4	Dissemination and promotion	JAIP					
4a	Information campaign for various target groups (public x private entities)	JAIP			■	■	■
4b	Acquisition for the competence platform (experts x clients)	JAIP			■	■	■
4c	Marketing support for tasks 1,2,3	JAIP			■	■	■
	Evaluation of progress	JAIP		■	■	■	■



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6. COLLABORATION WITH STAKEHOLDERS

6.1. Stakeholders involved in AP development

1. National level

- JAIP - Jihočeská agentura pro podporu inovací o.p.s. (South Bohemian Agency for Support to Innovation; JAIP) + Ekoport
 - o coordinate activities
- Ministry of industry and trade
 - o cooperation in process of evaluation – economic and technical aspects
- Ministry of environment
 - o cooperation in process of evaluation – environmental aspects
- Ministry of regional development
 - o cooperation in process of evaluation – regional aspects
- Municipalities (Union of Towns and Municipalities of the Czech Republic)
 - o coordination of activities focused on municipalities
- Association of regions of the Czech Republic
 - o coordination of activities focused on regions
- Banks and other financial institutions
 - o presentation of tools and negotiations on their inclusion in the portfolio of services
- Energy services providers (energy service provider associations)
 - o Presentation of tools and negotiations on their inclusion in the portfolio of services
- Energy experts
 - o Presentation of tools and negotiations on their inclusion in the portfolio of services
- Grant distribution agencies (API – OPPIK, SFŽP – NZÚ, IROP etc.)
 - o Presentation of tools and negotiations on their inclusion in the portfolio of services
- Social services providers (Diaconia etc.)
 - o Presentation of tools and negotiations on their inclusion in the portfolio of services
- Universities
 - o Cooperation on innovations of innovation instruments

2. Regional level

- JAIP - Jihočeská agentura pro podporu inovací o.p.s. (South Bohemian Agency for Support to Innovation; JAIP) + Ekoport
 - o coordinate activities
- Regions of the Czech Republic (13 regions + Capitol city Prague)
 - o Presentation of tools and negotiations on their inclusion in the portfolio of services
- Regional chambers of commerce
 - o Presentation of tools and negotiations on their inclusion in the portfolio of services
- Regional energetic agencies
 - o Presentation of tools and negotiations on their inclusion in the portfolio of services
- Regional agencies for innovations
 - o Presentation of tools and negotiations on their inclusion in the portfolio of services
- Regional development agencies
 - o Presentation of tools and negotiations on their inclusion in the portfolio of services
- Universities



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- Cooperation on development of regional innovative mechanism
3. Local level
- Municipalities
Presentation of tools and its utilisation on local level
 - MAS – Local Action Groups (microregions)
 - Presentation of tools and negotiations on their inclusion in the portfolio of services
 - Specialized high schools (economic and technical with focusing on RES)
 - Cooperation on development of local innovative mechanism

6.2. Roles and responsibilities of Stakeholders for Action Plan implementation

Stakeholder groups		Role and responsibility	Involvement and communication strategy
Implementing parties	JAIP Ekoport Energy services providers Energy experts Regional chambers of commerce Regional energetic agencies Regional agencies for innovations Regional development agencies MAS – Local Action Groups	Dissemination of results as part of the portfolio of services	Presentation of results and possibilities of their use
Political decision-makers	Ministry of industry and trade Ministry of environment Ministry of regional development Municipalities Association of regions of the Czech Republic Grant distribution agencies Regions of the Czech Republic	taking innovative tools into account in the development of strategies and funding instruments for EE and RES financing	Presentation of results and possibilities of their use
Target groups	Municipalities Banks and other financial institutions Energy services providers Energy experts Grant distribution agencies	use of innovative tools in realisation of EE and RES projects	Presentation of results and possibilities of their use



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Stakeholder groups		Role and responsibility	Involvement and communication strategy
	Social services providers Regions of the Czech Republic		
Others	Universities Specialized high schools	cooperation on development of regional and local innovative mechanism	Presentation of results and possibilities of their use

7. MONITORING STRATEGY

The continuously monitoring and evaluating of the progress will be provided by JAIP and Ekoport always in semi-annual intervals, corresponding to the finalization of AP activities (see the Gantt-chart). Records will be kept of the fulfillment of activities.

Subsequent evaluation will be carried out by the end of 2025.



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