Barriers to EE in SME and industry

Example of JASPERS support

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01 October 2019, Prague
Funds available CEE

- EUR 14.4 bn available in 11 countries of CEE region.
- EUR 3.1 bn available in Czech Republic (EUR 1.8 bn + EUR 1.3 bn).
- Czech allocation represents 21% of the total available in CEE.
Funds available CEE

- EUR 1.7 bn available for SME (68).
- EUR 1.3 bn available for industry (70).
- 20% of total amount available allocated to SME and industry.
Absorption of funds

- SME: 57% allocated, 19% spent (68).
- Industry: 32% allocated, 7% spent (70).
- Overall, the absorption is substantially better in other EE sectors.
Situation in Czech Republic

- 50% allocated to SME and industry.
- Project generally larger in terms of cost.
- Absorption in industry lagging behind.

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</thead>
<tbody>
<tr>
<td>public infrastructure</td>
<td>24%</td>
<td>756,279,784</td>
<td>410,318,910</td>
<td>149,426,535</td>
<td>54%</td>
<td>20%</td>
<td>1,811</td>
<td>226,570</td>
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<tr>
<td>housing</td>
<td>14%</td>
<td>439,964,362</td>
<td>320,010,400</td>
<td>106,109,475</td>
<td>73%</td>
<td>24%</td>
<td>1,920</td>
<td>166,672</td>
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<tr>
<td>DH&amp;CHP</td>
<td>11%</td>
<td>348,443,105</td>
<td>207,861,157</td>
<td>40,042,129</td>
<td>60%</td>
<td>11%</td>
<td>113</td>
<td>1,839,479</td>
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<tr>
<td>SME</td>
<td>20%</td>
<td>635,363,149</td>
<td>280,919,801</td>
<td>85,511,906</td>
<td>44%</td>
<td>13%</td>
<td>637</td>
<td>441,004</td>
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<tr>
<td>industry</td>
<td>30%</td>
<td>953,044,720</td>
<td>244,839,946</td>
<td>67,134,304</td>
<td>26%</td>
<td>7%</td>
<td>207</td>
<td>1,182,802</td>
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<tr>
<td>Total</td>
<td>100%</td>
<td>3,133,095,119</td>
<td>1,463,950,214</td>
<td>448,224,349</td>
<td>47%</td>
<td>14%</td>
<td>4,688</td>
<td>312,276</td>
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Barriers - overview

1. Lack of awareness
2. Lack of capacity
3. State aid
4. Administrative barriers
5. Financial barriers
1. Lack of awareness

• Problem:
  • Companies are not aware of EE opportunities.

• Solution:
  • Information campaigns.
  • ESCOs.
Energy prices
2. Lack of capacity

• Problem:
  • Companies do not have adequate capacity to prepare and implement projects.

• Solution:
  • Project Development Assistance.
  • ESCOs.
3. State aid

• Problem:
  • Additional administrative burden.

• Solution:
  • Adequate design of support programmes.
State aid routes

- State aid
  - De minimis (200,000 EUR over 3 years)
  - GBER (aid below EUR 10 m)
  - EEAG
  - DG COMP reviewing SA regulations for the next FP.
4. Administrative barriers

• Problem:
  • Administrative burden related to applying for ESIF support is considerable.

• Solution:
  • Adequate design of application process.
  • Project Development Assistance.
Sustainable Energy Finance Facility

LEME product and technology categories

1. BUILDINGS
- Thermal insulation
  - Roof
  - Walls
- Windows, doors, facades, gates
  - Roof
  - Walls
- Space heating
- DH Heating
  - Pre-insulated pipes
  - Heat exchangers
- Cogeneration and Trigeneration
  - Fuel: fossil fuel, LPG
  - Fuel: natural gas
  - Fuel: biogas, digester gas
  - Heat pumps: household gas, mine gas, biofuels, biomass, bio-waste
- Ventilation and air conditioning
  - Main ventilation units with heat recovery
  - Heat exchangers
  - Stand-alone AC units
  - Absorption chillers
  - System VRF
- Lighting
- Building control and energy management systems
  - Internal (indoors) lighting
  - External (outdoors) lighting
- Heat recovery from ventilation air

2. PROCESS TECHNOLOGIES
- Heating
  - Steam boilers - gas/oil
  - Steam boilers - pellets/bricks
  - Biomass fired boilers
  - Steam generators - gas/oil
  - Gas/oil-fired boilers
  - Heaters - gas/oil
  - Heat exchangers
- Plastic materials
- Agrotechnical equipment
  - Tractors
  - Grain harvesters
  - Thermo-insulating curtains
- Metal processing machines
  - Horizontal CNC centers
- Cooling freezing
  - Chillers/Compressors
  - Refrigerating compressors
  - Refrigerating cabinets
- Pumping sets
  - Current pumps
  - with NHI engines
  - with SN engines
- Compressed air sets (compressor, energy efficient electric motors, VSD)
- Energy management, automation and control systems
- IT Servers to serve large server centers
- Internal transport
- Construction
  - Forklifts
  - Electrical forklifts
  - Electric forklifts

3. RENEWABLE ENERGY/WASTE TO ENERGY
- Solar thermal energy
- Thermal collectors
- Biomass/wastes to energy
  - Biomass fired boilers
  - Steam boilers fueled with pellets, briquettes
  - Steam boilers fueled with straw and chips
  - Biomass heaters
  - Biogas
  - Biomass gasification
  - Wastes gasification - pyrolysis
  - Wastes incinerators

4. WASTE ENERGY UTILISATION
- Fuel and process output gases
  - Recovery boilers/Heat exchangers
- Organic Rankine Cycle systems
- Steam
- Insulation for pipelines
- Steam traps
- Condensate recovery
- High temperature insulations
  - Woods
  - Polystyrene
  - Ceramic
5. Financial barriers

• Problem:
  • SME generate 75% of GDP in Poland and yet 60% of SMEs is financing their investments with own resources only.
  • EE projects are treated as consumer loan or WC loan by the banking sector as it is hard to make a collateral on the asset or a pledge on receivables.

• Solution:
  • Appropriately designed FI (e.g. equity instruments, guarantees, soft-loans, forfeiting funds)
Financial Instruments Advisory

- Support to public authorities and other stakeholders on FIs:
  - Ex-ante assessments and market studies for ESIF FIs
  - Investment strategy and governance structure
  - Combination of FI and grants
JASPERS support in Croatia

- Operational Programme Competitiveness and Cohesion 2014 – 2020
- TO4 Supporting the shift towards a low-carbon economy in all sectors
  - 4b - Promoting energy efficiency and renewable energy use in enterprises
  - 4c - Supporting energy efficiency, smart energy management and renewable energy use in public infrastructure, including in public buildings, and in the housing sector
- Some EUR 470 m available, including EUR 60 m for SME and industry
- Ministry of Regional Development and EU Funds
- Consultancy support
JASPERS support in Croatia

• State aid
• Grant rates
• Eligibility criteria
• Eligible measures
• Procedures, applicants guidelines
Conclusion

• JASPERS support can be used to adequately design support programmes.
• ELENA can be used to provide PDA to beneficiaries.
Thank you for your attention
More Information

For info or further questions on this presentation please contact the JASPERS Networking and Competence Centre:

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