**Application Form**

**for USAID Energy Security Project partner cities to receive technical assistance for municipal stakeholders to implement reforms aimed at optimizing and developing the heat supply infrastructure**

**General Information**

1.1.1. City: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1.1.2. Population: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1.1.3. Mayor (full name):

1.1.4. Full name and position of the contact person for the selection process:

1.1.5. Contact information the contact person for the selection process:

Tel.: Fax: Email:

**А. Information on the City’s Eligibility to Participate**

**A.1 Connected heat load of the city’s district heating (DH) system: \_\_\_\_\_ Gcal/year**

**A.2 Please specify the DH entities responsible for the operation of the heating network(s):**

|  |  |  |
| --- | --- | --- |
| **DH Entity** | **Ownership** | **Connected heat load Gcal/year** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| **Total:** | |  |

**A.3. Please provide details on the long-term or mid-term energy plan/program approved at the city level (Municipal Energy Plan, Sustainable Energy Action Plan (PDSER), Sustainable Energy and Climate Action Plan (PDSERK) or similar).**

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**B. Information on the City’s Technical and Financial Status and Planning**

**B.1 Investments**

Which of the financial sources listed below would you be prepared to use to develop your DH system?

* Funding from the local or state budget □
* Grants from donor organizations □
* Private sources (PPP schemes, ESCO and other mechanisms) □
* Commercial loan from a bank □
* Long-term loans from international financial organizations □

**B.2 Energy Management**

Is there a functioning unit/department/division responsible for energy management within the city administration?

**□ Yes □ No**

If yes, please specify the effective regulation/other document regulating this unit/department/division.

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Has energy management been introduced at the city DH enterprise(s)?

**□ Yes □ No**

If yes, please specify the effective regulation/other document regulating energy management in the city.

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|  |

Has energy management with an automated monitoring system been introduced at the city DH enterprise(s)?

**□ Yes □ No**

**B.3 Previous experience of DH network modernization**

Have any DH modernization activities been financed from the central (state) or local budget(s)?

**□ Yes □ No**

If yes, what were theseDH network **investments** in absolute terms (please specify the actual investments for 2018, projected investments for 2019, and indicative figures for 2020).

2018 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_[UAH]

2019 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_[UAH]

2020 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_[UAH]

Please briefly describe these investments and/or projects in terms of investment targets.

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| --- |
|  |

Have any DH modernization activities in the city been financed from international financial organizations, such as international banks, international grants, etc.?

**□ Yes □ No**

If yes, what were these DH network **investments** in absolute terms (actual data for 2018-2020)?

2018\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_[UAH]

2019\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_[UAH]

2020\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_[UAH]

Please briefly describe these investments and/or projects in terms of investment targets.

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| --- |
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**B.4** **Energy audits of DH systems**

Has any energy scanning (simplified audit) of the city DH system(s) been conducted?

**□ Yes □ No**

If yes, please specify the company that conducted the audit and the year.

|  |
| --- |
|  |

Has any due diligence (comprehensive audit) of the city DH system(s) been conducted?

**□ Yes □ No**

If yes, please specify the company that conducted the audit and the year.

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| --- |
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**B.5 Is there an approved long-term plan or similar document for city development?**

**□ Yes □ No**

If yes, please specify the document (a brief summary) and provide information about its adoption:

|  |
| --- |
|  |

**B.6 Has any long-term residential energy efficiency program been developed and officially approved?**

**□ Yes □ No**

If yes, please briefly summarize the document and provide information about its adoption.

|  |
| --- |
|  |

**B.7 Is there a developed and approved heat supply scheme for the city?**

**□ Yes □ No**

If yes, please briefly summarize the document and provide information about its adoption and in-force period.

|  |
| --- |
|  |

Was a heat supply scheme developed prior to 2017?

**□ Yes □ No**

Was a heat supply scheme developed between 2017 and 2020?

**□ Yes □ No**

**B.8 Indicative city area/built-up area covered by the DH supply (square meters)**

Please indicate the city area/built-up area that the DH system covers in square meters. \_\_\_\_\_\_

Are there significant differences in terms of dwelling density and connected heat load between various districts/areas within the city? Please describe briefly.

|  |
| --- |
|  |

**В.9 What is the share of DH consumers among the total city population?**

□ 0 – 50%

□ 51 – 70%

□ 71 – 100%

**В.10. What are the prospects for DH development in your city?**

□ The city should switch to individual solutions

□ Hybrid system

□ DH system to be kept

**B.11 Current and projected DH infrastructure**

What is the actual peak demand for thermal energy (heat supply and hot water combined: heating, hot water supply, ventilation) in your city (Gcal/year)? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Please specify the structure of available/installed heat generating capacities at the city level.

| **Type** | **Gcal/year** | **%** |
| --- | --- | --- |
| Cogeneration |  |  |
| Gas boiler houses |  |  |
| Boilers using alternative and renewable energy sources |  |  |
| Other |  |  |
| **Total** |  | **100%** |

Please specify the projected structure of heat generating capacities at the city level for the year \_\_\_\_ (specify).

|  |  |  |
| --- | --- | --- |
| **Type** | **Gcal/year** | **%** |
| Cogeneration |  |  |
| Gas boiler houses |  |  |
| Boilers using alternative and renewable energy sources |  |  |
| Other |  |  |
| **Total** |  | **100%** |

Please specify the volume of thermal energy sold to consumers (by DH entity, if possible).

|  |  |  |
| --- | --- | --- |
| **Year** | **Volume, Gcal** | **Cost** |
| 2018 |  |  |
| 2019 |  |  |
| 2020 |  |  |

Please specify the volume of thermal energy sold to consumers by type in 2020.

|  |  |  |
| --- | --- | --- |
|  | **Volume, Gcal** | **Cost** |
| Public facilities |  |  |
| Residential |  |  |
| Other |  |  |

Please specify the volume of hot water supplied (by DH entity, if possible).

|  |  |  |
| --- | --- | --- |
| **Year** | **Volume, m3** | **Cost** |
| 2018 |  |  |
| 2019 |  |  |
| 2020 |  |  |

Characteristics of the boiler houses in your city:

|  |  |  |  |
| --- | --- | --- | --- |
| **Capacity** | **Type of fuel (please specify)** | | |
|  |  |  |
| Over 50 Gcal/year |  |  |  |
| 10 – 50 Gcal/year |  |  |  |
| 3 – 10 Gcal/year |  |  |  |
| Less than 3 Gcal/year |  |  |  |

Please specify the pipelines by type.

|  |
| --- |
|  |

Please specify the length and age of the pipelines.

| **Dimension** | **Length\*** | **<5 years** | **5 - 10 years** | **10-15 years** | **15-20 years** | **>20 years** |
| --- | --- | --- | --- | --- | --- | --- |
| Km. |  |  |  |  |  |  |
| % | 100 |  |  |  |  |  |

Please specify the actual losses of thermal energy throughout the heating season (by DH entity, if possible).

|  |  |
| --- | --- |
| **Year** | **%** |
| 2018 (actual) |  |
| 2019 (actual) |  |
| 2020 (actual) |  |

Please specify the actual losses of thermal energy throughout the non-heating season (by DH entity, if possible).

|  |  |
| --- | --- |
| **Year** | **%** |
| 2018 (actual) |  |
| 2019 (actual) |  |
| 2020 (actual) |  |

**Declaration**

The undersigned person hereby

* declares that the information presented in this application form is true and accurate;
* attests that the information above has been submitted for the competitive selection of USAID ESP partner cities;
* declares that all information above has been submitted with good intent, and will remain valid (with the exception of force-majeure or any circumstances out of the signatory’s control); and
* agrees to adhere to the Memorandum of Understanding between the city and USAID ESP if the city is selected for partnership with USAID ESP to develop the city heat supply scheme.

Mayor: City Council Secretary

(optional)

Date: Date:

Seal here: Seal here