

## Call for tenders' details

Title: Potentials and Levels for the Electrification of Space Heating in Buildings

Start date: 05/09/2019

Time limit for receipt of tenders: 10/10/2019

Contracting authority: European Commission, DG Energy (ENER)

Status: Closed

## Call for tenders question list

## Call for tenders questions summary

| # | Submission date     | Publication date    | Question subject | Question  | Answer   |
|---|---------------------|---------------------|------------------|---|--|
| 1 | 25/09/2019<br>14:11 | 01/10/2019<br>16:06 | Bidder questions | <p>1) Should the „common baseline scenario“ be one scenario for all tasks 1-3, or should there be a different baseline for Task 1, 2 and 3? Should this baseline scenario be target-leading by 2050, or rather a business-as-usual scenario that does not necessarily be target compliant? And should all other scenarios (including the variants) reach the energy and climate targets 2030 and 2050? 2) If the scenarios should reach the energy and climate targets 2030 and 2050, can a hydrogen scenario include also direct electrification (heat pumps) and the other way around (use of hydrogen or methane in a direct electrification scenario)? 3) Regarding the cumulative team requirements: At least 5 people should deliver the requested services whereas 5 positions are clearly defined (B2, B3, B4, B5, B6). Some of the expert roles have quite a broad profile, therefore the question is whether it is acceptable to use two CVs per expert role to fulfill the predefined requirements. This also relates to B7 (language coverage).</p> | <p><b>01/10/2019</b><br/>1) The modelling of Tasks 1-3 is based on one common baseline scenario. This is a reference scenario, which reflects EU legislation and adopted policies. The other scenarios should be able to fulfil EU commitments under the Paris agreement. 2) The focus of each scenario is a specific decarbonisation option; however this can be combined with other decarbonisation options provided the focus of the analysis is not changed and the modelling is able to provide the outputs required under the tender specifications. 3) The tenderer can cover an expert role by more than one person, provided the expertise required under the tender specifications is ensured.</p> |

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|   |                     |                     |   | relates to B7 (language coverage).  |   |
| 2 | 20/09/2019<br>12:22 | 01/10/2019<br>16:08 | Task 1: Analyse various levels of direct electrification of heating and establish the quantified need for additional generation and grid capacities, electric heating appliance capacities, building refurbishment levels and their costs | in the analysis for operating the geothermal heat pump and ambient heat HP systems, Is it requested to calculate the electricity consumption of the system (MWh electric), depending on a reference: system capacity (kWth), with a given supplying heating temperature ( $T=^{\circ}\text{C}$ ) during a number of hours per year, and with a given cooling temperature ( $T = ^{\circ}\text{C}$ ) during a number of hours operating in cooling mode per year, in a given climatic area, and finally using a measured seasonal coefficient of performance (SPFheating and SPFcooling) ? | <b>01/10/2019</b><br>The tenderer must draw on their own knowledge and resources, and demonstrate an in-depth understanding of the subject area and the relevant factors necessary to analyse those in accordance with the required outputs of the study. |

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| 3 | 20/09/2019<br>08:17 | 01/10/2019<br>16:08 | Development of European network model. EC's position. | In order to develop a European network model both transport and distribution network models have to be considered. The transport network model can be obtained through ENTSOE, although we do not know about public sources to obtain the distribution network models. Therefore, we would like to know the degree of detail of the information that could be available to develop the distribution network model or which would be the assumptions that the EC would consider as be valid. A possible idea would be to propose standard networks for each country, by making assumptions about the loads, generators and the complexity of the system. That is why we would like to know the EC's position on the degree of certainty of the data used. | <b>01/10/2019</b><br>Potential tenderer must develop their own approach as regards the best modelling methods and data sources, including the level of detail needed and the quality of data. |

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| 4 | 01/10/2019<br>17:30 | 02/10/2019<br>16:24 | Tasks 1-3: Decarbonised energy vectors | The study aims at assessing different scenarios with varying levels of electrification via three different routes. To what extent does a full decarbonisation of the space heating sector need to be achieved in each of these scenarios? For instance for scenario 2b – 40% electrification via hydrogen: to what extent should other decarbonised energy vector supply the remainder 60% of the space heating? | <b>02/10/2019</b><br>The scenarios aim to analyse the costs of specific decarbonisation routes. Therefore, each scenario has to keep the technology focus. |

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