

**Denmark-Roskilde: Heat pumps
OJ S 245/2019 19/12/2019
Contract award notice – utilities
Supplies**

Legal Basis:

Directive 2014/25/EU

Section I: Contracting entity

I.1. Name and addresses

Official name: Fors Varme Roskilde A/S

National registration number: 32837425

Postal address: Betonvej 12

Town: Roskilde

NUTS code: DK022 Vest- og Sydsjælland

Postal code: 4000

Country: Denmark

Contact person: Lærke Ærenlund

E-mail: lae@fors.dk

Telephone: +45 30103637

Internet address(es):

Main address: <https://www.fors.dk/>

Address of the buyer profile: <https://eu.eu-supply.com/ctm/Company/CompanyInformation/Index/368386>

I.6. Main activity

Other activity: Heating production

Section II: Object

II.1. Scope of the procurement

II.1.1. Title

Procurement of a 8 MW Heat Pump Plant

II.1.2. Main CPV code

42511110 Heat pumps

II.1.3. Type of contract

Supplies

II.1.4. Short description

Fors Varme Roskilde A/S wants to establish an 8 MW heat pump plant at Bjergmarken Renseanlæg based on a design and build contract. The preferred bidder will be awarded the contract for designing and building this heat pump plant as well as 10 years of maintenance thereof.

Bjergmarken Renseanlæg can as part of the tender procedure be inspected by interested applicants on 3.7.2019 from 11 a.m. CET. The address of the location is: Boserupvej 25 4000 Roskilde.

II.1.6. Information about lots

This contract is divided into lots: no

II.1.7. Total value of the procurement

Value excluding VAT: 64 185 095,59 DKK

II.2. Description

II.2.2. Additional CPV code(s)

45232142 Heat-transfer station construction work, 50710000 Repair and maintenance services of electrical and mechanical building installations

II.2.3. Place of performance

NUTS code: DK022 Vest- og Sydsjælland

II.2.4. Description of the procurement

The procurement includes the establishment of an 8 MW heat pump plant at Bjergmarken Renseanlæg including setting up the construction area, preparation of the building for the plant, installation of equipment, installation of SCADA and control system for the operation and control of the heat pump plant as well as other electrical installations, training of personnel, delivery of operating and maintenance manuals, execution of appropriate tests as well as 10 years of maintenance of the heat pump plant.

The heat pump installation will be placed in an already existing sludge drying building at Bjergmarken Renseanlæg and the contractor is responsible for renovating the building, preparing it for installation of the heat pump plant, obtaining the necessary permissions while respecting relevant standards, rules, regulations and building codes.

The low temperature heat source for the heat pump is the cleaned waste water leaving the site and the high temperature heat sink is the district heating grid in Roskilde. The contract consists of process works on waste water process, a secondary loop comprising heat exchanging and glycol loop, heat pumps, electrical and automation as well as district heating connection.

The plant must be designed for 8 MW heating production at the following design points:

Waste water inlet: 8°C, waste water outlet: 2 °C, district heating supply temp: 80 °C district heating return temp: 52 °C.

The plant must consist of at least 2 closed circuit ammonia separate heat pump units with a combined capacity as specified above and the plant is expected to run full load approximately 7 500 hours per year and have an operating range of at least 8-22 °C.

Heat extraction from the waste water requires an additional filter and establishment of a 400 m³ buffer sump as well as a new pipe installation including feed pumps from the waste water storage to the heat exchangers. A separate pipeline will have to be installed for each feed pump. On the district heating side of the heat exchanger pumps and piping must be dimensioned for maximum of 16 bars (PN16) and suitable for temperatures up to 90 °C. The pumpset should consist of $n \geq 3$ parallel pumps, with a total $n-1$ capacity of 100 % of the maximum capacity flow (e.g. 3 x 50 % or 4 x 33 %). The pumps should be able to regulate the total capacity in a way, so operation with any 1 of the heat pump units is possible.

The contractor will also be responsible for the supply and installation of all necessary electrical installations, including a control system where all technical installations must be fully connected to and be able to exchange information with, the clients existing SCADA system (ABB 800XA).

Finally the contractor must supply and install all necessary safety equipment such as ammonia detection and emergency showers.

II.2.5. Award criteria

Price

II.2.11. Information about options

Options: yes

Description of options:

The tender includes the following options:

- maintenance for a 10 year period of the heat pump plant,
- feed pump,
- suction pipe for feed pumps,
- piping after the heat exchangers,
- brine cycle pump,
- brine cycle,
- heat pump,
- district heating pump,
- district heating pipe,
- freeflow waste water heat exchanger.

II.2.13. Information about European Union funds

The procurement is related to a project and/or programme financed by European Union funds:
no

II.2.14. Additional information

Fors Varme Roskilde A/S has decided not to divide the contract into lots as this is expected to unduly increase the cost as well as the risk regarding the integration of the different deliveries under the contract.

Section IV: Procedure

IV.1. Description

IV.1.1. Type of procedure

Negotiated procedure with prior call for competition

IV.1.3. Information about a framework agreement or a dynamic purchasing system

IV.1.8. Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: yes

IV.2. Administrative information

IV.2.1. Previous publication concerning this procedure

Notice number in the OJ S: [2019/S 123-301466](#)

IV.2.8. Information about termination of dynamic purchasing system

IV.2.9. Information about termination of call for competition in the form of a periodic indicative notice

The contracting entity will not award any further contracts based on the above periodic indicative notice

Section V: Award of contract

Contract No: 1

Title:

Procurement of a 8 MW Heat Pump Plant

A contract/lot is awarded: yes

V.2. Award of contract

V.2.1. Date of conclusion of the contract

20/11/2019

V.2.2. Information about tenders

Number of tenders received: 2

Number of tenders received from SMEs: 1

Number of tenders received by electronic means: 2

The contract has been awarded to a group of economic operators: no

V.2.3. Name and address of the contractor

Official name: Aktive Energi Anlæg A/S

National registration number: 28098197

Postal address: Industrivej Syd 11

Town: Herning

NUTS code: DK041 Vestjylland

Postal code: 7400

Country: Denmark

E-mail: bc@aea.dk

Telephone: +45 20424410

The contractor is an SME: yes

V.2.4. Information on value of the contract/lot

Initial estimated total value of the contract/lot: 65 000 000,00 DKK

Total value of the contract/lot: 64 185 095,59 DKK

V.2.5. Information about subcontracting

V.2.6. Price paid for bargain purchases

Section VI: Complementary information

VI.3. Additional information

The evaluation of the economically most advantageous bid, cf. Section II.2.5) was based on the evaluation of the following sub-criteria converted to prices forming a technical evaluation price used to identify the bid with the lowest technical evaluation price to be awarded the contract:

- offer price for contract work,
- quality (score converted to price with a maximum penalty of 28 000 000 DKK),
- maintainability and maintenance (score converted to price with a maximum penalty of 12 000 000 DKK),
- lifetime costs (based on 10 years operation),
- risk (score converted to price with a maximum penalty of 15 000 000 DKK).

The total value of the awarded contract, cf. Section II.1.7) and V.2.4) is based on the combined value of the contract regarding the construction and commissioning of the plant and the operation and maintenance contract for the first 10 years.

VI.4. Procedures for review

VI.4.1. Review body

Official name: Klagenævnet for Udbud

Postal address: Nævnenes Hus, Toldboden 2

Town: Viborg

Postal code: 8800

Country: Denmark

E-mail: klfu@naevneneshus.dk

Telephone: +45 35291000

Internet address: <https://erhvervsstyrelsen.dk/klagevejledning-0>

VI.4.3. Review procedure

Precise information on deadline(s) for review procedures:

According to the Danish Act on the Complaints Board for Procurement, etc. (LBK No 593 of 2.6.2016), the following deadlines apply for submission of complaint:

Complaints about not being pre-qualified must be submitted to the Complaints Board for Procurement within 20 calendar days from the day after the day on which the contracting authority has sent a notification to the affected applicants about who has been pre-qualified if the notification has stated a brief account of the relevant reasons for the decision, cf. § 7(1) of the said act.

Complaints about the award of the contract must be made to the Complaints Board within 45 days after the contracting authority has published a notice in the Official Journal of the European Union stating that the contracting authority has concluded a contract. The deadline is calculated from the day on which the notice is published.

Not later than the time a complaint is lodged with the Complaints Board for invitation to tender, the complainant must notify the contracting authority in writing that the complaint has been submitted to the Complaints Board for Procurement and whether the complaint has been filed in the standstill period, cf. § 6(4). In cases where the complaint has not been lodged during the standstill period, the complainant must also indicate whether a suspensive effect is requested from the complaint, cf. § 12(1).

VI.4.4. Service from which information about the review procedure may be obtained

Official name: Konkurrence- og Forbrugerstyrelsen

Postal address: Carl Jacobsens Vej 35

Town: Valby

Postal code: 2500

Country: Denmark

E-mail: kfst@kfst.dk

Telephone: +45 41715000

Internet address: <http://www.kfst.dk>

VI.5. Date of dispatch of this notice

16/12/2019