

**APPENDIX A:
REQUIREMENTS CONCERNING THE DELIVERIES**

For the procurement of Wind Power Production Forecast to HOFOR Vind A/S.

Description of service

HOFOR Vind A/S' portfolio consists of ten wind parks with a combined installed capacity of approximately 100 MW. HOFOR expects to increase the capacity to 460 MW in 2025.

The primary service:

- 1) Wind Power Production Forecast at Wind Park level
- 2) Forecast should contain the most likely forecast and the 10% and 90% percentile
- 3) Day Ahead Forecasts for a period of minimum 2 days
- 4) Intraday Forecast updates
- 5) Implementation of intraday production data and availability information in Intraday Forecast
- 6) The Forecast must have a time resolution of 1 clock hour. Additionally, an offer is requested for a finer time resolution of the forecast e.g. quarters of an hour (15 minutes interval)
- 7) Updates of the Forecast when the Forecasting Model receives new data such as Weather or Production data that changes the wind output.

Any additional services such as Manual warning in connection with cut off and Ice mail warnings

Evaluation Criteria.

The weight of the evaluation criteria:

- 50% weight on price criteria
- 50% weight on non-priced criteria

Price evaluation criteria

The price of the Wind Production Forecast is an evaluation criterion. HOFOR will evaluate the price as a total cost of ownership of a period of four years. The lowest price receives the highest amount of points.

The tenderer is requested to estimate the price for the following:

- 1) Full scale Trial period of 2 months including intraday updates of production forecast
- 2) Implementation costs
- 3) Yearly cost of Wind Production Forecast. Please state how the price fluctuates with installed capacity or number of wind parks
- 4) Expected price increase per year
- 5) Any additional costs e.g. IT support or business support

Non-price evaluation criteria

Evaluation criteria in addition to price for selection of suppliers listed below. HOFOR will evaluate in which degree the tenderer fulfils the non-price evaluation criteria and award the highest amount of points to the tenderer with the highest fulfilment rate.

Criteria	Evaluation
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Web tool	The preferred tenderer provides access to a web tool, where forecast data can be analysed and compared to production data.
Model	The preferred tenderer has a 2nd Generation forecast model. The preferred tenderer provides a roadmap for Cloud technology and Cloud provider.
Input data	The preferred tenderer requires the following input data: location of wind turbines, installed capacity and historical production data. For new wind parks then wind map. The preferred tenderer is able to receive intraday production data and availability information for calibration of intraday forecasts.
Weather data	The preferred tenderer has access to the largest weather data services.
Implementation time	The preferred tenderer requires a maximum of 4 weeks of implementation time of a new wind park
Accuracy	The preferred tenderer measures accuracy on both day ahead forecasts and intraday forecasts.
Trial period	The preferred tenderer must offer a trial period of min. two months
Data exchange	The preferred tenderer offers an integration method through HOFOR's rest API (webservice). The preferred tenderer sends a description of the API and data format. The preferred tenderer provides a draft data exchange agreement.
Support	The preferred tenderer offers 24/7 IT emergency support and regular support during office hours.
Reliability	The preferred tenderer offers a minimum of 99% uptime 365 days
References	The preferred tenderer has the most convincing references relevant for the job at hand.

Points

Sub criteria "Price" will be evaluated by a point scale from 0-8, in which the maximal amount of points are 8, which is awarded to the cheapest price.

A linear model is used; in which 0 points are given for submissions whose price is at least 50% higher than the lowest price.

The non-price criteria will be subject to a similar point scale from 0-8, which reflects the following evaluation:

Point	Given for
8	Best possible fulfillment of the criteria
7	Excellent fulfillment of the criteria
6	Good / very satisfactory fulfillment of the criteria
5	Above average fulfillment of the criteria
4	Average / satisfactory fulfillment of the criteria
3	Below average fulfillment of the criteria
2	Less satisfactory fulfillment of the criteria
1	Poor fulfillment of the criteria
0	No or very limited fulfillment of the criteria (but conditional Tender)

Minimum Contract Requirements

Any contract forwarded in regards to this tender, *must take all* of the following in to account:

- 1) HOFOR must have the right to assign its rights and obligations under the Agreement to a group-based company inside HOFORs organization or a third party when the tasks HOFOR has carried out releases fully or partially to such a group-based company or such third party.
- 2) the contracts confidentiality section must account for any national legislation,
- 3) HOFORs standard payment terms are as follows:
 - payment date is set to running months + 30 days, from reception of complementary invoice,
 - invoice submission must be handled electronically, and
 - overdue payment can be calculated as EURIBOR (or similar) + 2 %.
 HOFOR cannot sign a contract without these payment terms,
- 4) "HOFORs Solution design and documentation – template" should in - reasonable time - be filled out by the tenderer when a binding contract has been signed,
- 5) any employee competition clause is illegal in Denmark and HOFOR cannot sign a contract holding such a clause,
- 6) HOFOR will not hold expenses related to dining, transportation and domicile,
- 7) electronic communication is sufficient HOFOR will not accept demands regarding physical mail, and
- 8) HOFOR *cannot* be used in any marketing related context, without preliminary consent from HOFOR.
- 9) Termination of contract: 1 month

Selection of Submitters

Prerequisites for submitting the tender:

- ✓ The tenderer is in a non-competitive position towards HOFOR A/S, HOFOR Vind A/S and HOFOR Energiproduktion A/S.
- ✓ The tenderer accepts the minimum contract requirements
- ✓ The tenderer can prove a positive Equity for the last three years.

- 1) EU announcement: Tenderes reply to the tender with Appendix B.
- 2) Selection (1st evaluation round): Using the submitted appendix B HOFOR will select the two - three best tenderers qualified for the negotiation round.
- 3) Negotiation: Selected tenderers reply to the negotiation round with the below documents
 - a. A contract draft that lives up to the minimum contract requirements and that contains the legal provisions governing the relationship between the parties of the contract.
The contract draft contains an offer price divided into implementation costs, monthly fees and the calculation/ dependence on portfolio size (installed MW or wind turbine parks), yearly price increases, and a description of any additional costs.
 - b. SLA. A description of IT support and normal support as well as expected recalibrations of forecast models.
- 4) POC (2nd evaluation round): Negotiations and evaluations of POC will take place during the trial period and will be finished 2 weeks after the trial has ended. HOFOR will compensate the tenderers equally for participating in the POC.
- 5) Contract signed and implementation of system will start. Go live is expected 1 month after contract signature.

