



To: Jennifer Chiu
Assistant Director of Purchasing

From: Tom Draper
Buyer

Date: December 16, 2019

Re: Energy Information System Monitoring
Contract #19-11-7090R-IB

The following bids were received and opened at 3:00 p.m., Monday, November 11, 2019 as specified in documents concerning **Contract #19-11-7090R-IB Energy Information System Monitoring**. The bids received are located on pages 3-4.

Recommendation: Building Optimization Technologies

Funding: M & O Funds

Estimated Expenditure: \$40,000.00

Contract Term: November 15, 2019 - September 1, 2020

td

EVALUATIONS MATRIX
RFP - Request for Proposal
Cypress-Fairbanks Independent School District

Energy Information System Monitoring #19-11-7090R-IB

Instructions and directions for completing RFP Evaluation Matrix

1. Please enter your name on each evaluation sheet, and on the summary sheet on the line provided.
2. Each Respondent is to be scored by the following scale:
 - 5.0 to 4.5 = Exceptional, exceeds and fully meets all requirements*
 - 4.4 to 3.5 = Advantageous, exceeds some requirements*
 - 3.4 to 2.5 = Meets minimal requirements*
 - 2.4 to 1.5 = Addresses most of the minimal requirements*
 - 1.4 to 1.0 = Addresses part of minimal requirements*
3. Please enter your point (shown above) for each criterion being evaluated.

5.0 Evaluation and Awards – In evaluating qualified bids the following considerations will be taken into account for award recommendations:

- 5.1 the purchase price;
- 5.2 the reputation of the vendor and of the vendor's goods or services;
- 5.3 the quality of the vendor's goods or services;
- 5.4 the extent to which the goods or services meet the needs of the District;
- 5.5 the vendor's past relationship with the District;
- 5.6 the long-term cost to the District to acquire the vendor's goods or services;
- 5.7 for a contract for goods and services, other than goods and services related to telecommunications and information services, building construction and maintenance, or instructional materials, whether the vendor or the vendor's ultimate parent company or majority owner: (A) has its principal place of business in this state; or (B) employs at least 500 persons in this state;
- 5.8 any other relevant factor specifically listed in the request for bid or proposal.
- 5.9 Bids shall be held open for sixty (60) days from the time of opening.
- 5.10 The District may award a contract for any or all sections of this bid.

Responses Received for

Energy Information System Monitoring #19-11-7090R-IB

Company/Vendor Name
Annapurna
Talisen Technology
Building Optimization Technologies
NuWave Energy Solutions

<u>Building Optimization Technologies, LLC</u>	Annapurna Solutions	Talisen Technologies, Inc.	NuWave Energy Solutions
10	10	10	10
10	7	5	5
10	9	5	5
9	10	10	5
9	10	8	9
5	10	10	10
9	10	9	8
10	6	2	5
5	9	9	9
9	9	3	3
10	0	0	0
9	0	2	5
10	5	0	9
9	8	2	3
9	8	2	3
133	111	77	89

Specification:

1. Collect interval energy data automatically from Smart Meter of Texas (SMT) and CenterPoint Energy Websites (DEIS).
2. Display kWh per hour interactive graphs to be visualized in heat maps.
3. Displays kWh line graphs, column bar graphs for daily, monthly comparing year-over-year.
4. Automatic Daily Reporting and Alarms: the technology will provide a daily report per facility.
5. Capabilities to generate an alarm if a threshold is reached when an increment of energy use in kWh is obtained comparing current use versus last year's use.
6. Data export: the technology will provide these reports in pdf format.
7. Automatic monthly reporting
8. kWh consumption analysis per facility, compared with last year, considering kWh, kWh/ Sf Ft, Peak kW and Load Factor.
9. Data export: the technology will provide these reports in pdf format.
10. Weekly Benchmark: the technology will provide visual benchmarking per facility to compare with last year's weekly energy consumption with descending sorting and calendar weekly selection capabilities.
11. Pivot Data Tables: this technology will display energy consumption in kWh, kWh/ SF, kWh/student, KW Peak, per facility considering the name with capabilities of filtering and sorting by building type, Utility or source, year, month, day, week and day. Will show partial and totals per year, month, day. Pivot Tables will be able to be deployed as Barchart, heat-map, Row heat-map or Column heat-map.
12. Load Factor: the technology will show daily, monthly and yearly load factor in a graph bar.
13. Track and manage peak demand: the technology will generate an annual graph showing the kWh used versus the percentage in time it was used to identify the peak load in each facility.
14. Regression Analysis: The technology will generate a polynomial regression function per facility using the 12 past months' interval kWh and temperature, omitting off-hours, holidays, and vacations as we would like to analyze the facilities' behavior which is dependent on temperature. Ability to present current daily scatter points to compare performance to the base year.
15. Normalization of energy consumption and Prediction Model: The technology will generate an algorithm for prediction model of energy consumption in each facility to compare energy consumption to that model and deploy in bar graphs the savings or waste of energy.