

TASK ORDER No. 1

**PROFESSIONAL SERVICES
(Electric Demand Response Consulting Services)**

THIS TASK ORDER FOR PROFESSIONAL SERVICES (“Task Order”) is made on the day of _____, 2022, between the **City of Lake Worth Beach**, a Florida municipal corporation (“City”) and **Quanta Technology, LLC**, a State of North Carolina limited liability company (“CONSULTANT”).

1.0 Project Description:

The City desires the CONSULTANT to provide those services as identified herein for the Project. The Project is described in the CONSULTANT’s Proposal, dated August 31, 2022 and services are generally described as: Demand Response Study, Phase I (the “Project”).

2.0 Scope

Under this Task Order, the CONSULTANT will provide the City of Lake Worth Beach Electric Utility with demand response consulting services for the Project as specified in the CONSULTANT’s proposal attached hereto and incorporated herein as Exhibit “1”.

3.0 Schedule

The services to be provided under this Task Order shall be completed within 8 to 12 weeks from the City’s approval of this Task Order or the issuance of a Notice to Proceed.

4.0 Compensation

This Task Order is issued for a lump sum, not to exceed amount of \$ **49,948.00**. The attached proposal identifies all costs and expenses included in the lump sum, not to exceed amount.

5.0 Project Manager

The Project Manager for the CONSULTANT is Jesus Gonzalez, phone (919) 428 - 9332; email: jgonzalez@quanta-technology.com ; and, the Project Manager for the City is Edward Liberty, phone:(561)586 - 1670; email:eliberty@lakeworthbeachfl.gov.

6.0 Progress Meetings

The CONSULTANT shall schedule periodic progress review meetings with the City Project Manager as necessary but every 30 days as a minimum.

7.0 Authorization

This Task Order is issued pursuant to the Professional Services Agreement (Electric Demand Response Consulting Services) between the City of Lake Worth and the CONSULTANT, dated _____ (“Agreement” hereafter). If there are any conflicts between the terms and conditions of this Task Order and the Agreement, the terms and conditions of the Agreement shall prevail.

IN WITNESS WHEREOF, the parties hereto have made and executed this Task Order No. 1 as of the day and year set forth above.

CITY OF LAKE WORTH BEACH, FLORIDA

By: _____
Betty Resch, Mayor

ATTEST:

By: _____
Melissa Ann Coyne, City Clerk

APPROVED AS TO FORM AND
LEGAL SUFFICIENCY:

APPROVED FOR FINANCIAL
SUFFICIENCY

By: _____
Glen J. Torcivia, City Attorney

By: _____
Bruce T. Miller, Financial Services Director

CONSULTANT:

Quanta Technology, LLC

By: _____
David Elizondo

[Corporate Seal]

STATE OF NORTH CAROLINA)
COUNTY OF WAKE)

THE FOREGOING instrument was acknowledged before me by means of physical presence or online notarization on this 7 day of NOVEMBER, 2022, by **Quanta Technology, LLC**, a State of North Carolina limited liability company, who is personally known to me or who has produced NC DRIVER LICENSE as identification, and who did take an oath that he or she is duly authorized to execute the foregoing instrument and bind the CONSULTANT to the same.

Stephanie Trammell
Notary Public Signature
MY COMMISSION EXPS: 3/29/2026
Notary Seal:

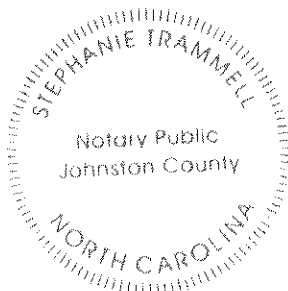


Exhibit "1"



2 SCOPE OF WORK / ADVISORY SERVICES

2.1 Phase 1: Demand Response Study

Phase 1 involves conducting a Demand Response Study primarily aimed at:

- Collecting and analyzing current relevant data from the City of Lake Worth Beach (LWB) System
- Defining system demand response program potential benefits which drive success factors
- Conducting a technology assessment evaluating technology choices
- Detailing anticipated impacts and costs

This phase should result in defining the most practical way of achieving the target demand reduction (e.g. 5 MW or target) while primarily focusing on the residential sector allowing the LWB residents to engage in transformative Energy Programs.

Table 1 below provides an overview of anticipated services performed during this project phase.

Table 1: Phase 1 Proposed Services

Service Breakdown	Description	Notes
Data Collection / Analysis	<p>Obtain and analyze current available data from the City including:</p> <ul style="list-style-type: none"> • Distribution of Customer Types and end use services (e.g. AC, Pool Pump, Water Heater, etc.) • Demand and Load Profiles • System operations and power purchase costs <p>Obtain other available relevant data such as:</p> <ul style="list-style-type: none"> • Experiences with other utilities/customers in FL 	Helps answer: How much is available for reducing, shifting, or increasing load?
System Benefits	<p>Work with the City to define the desired system benefits derived from the Demand Response program. Potential benefits include:</p> <p>Planning:</p> <ul style="list-style-type: none"> • Deferring upgrades <p>Operations:</p>	Helps answer: How can the load be used to create benefits?



- Controlling power purchase costs, e.g., demand charges (peak shaving)

Design potential DR program options, for example

Residential Program options:

- Smart thermostats or other HVAC controls
- Remote controlled services (water heating, pool pumps, other)
- Smart EV charging

Conceptual DR Programs
(Technology Assessment)

C&I Program Concepts (Palm Beach State College)

- Chilled water loop

Helps Answer: What technology choices are available for implementation?

Other Factors to Consider:

- Communications and control platform
- Interactions with A/M
- Experiences with other utilities

Estimate program benefits and cost. Expected elements include:

- Participation rates and anticipated evolution
- Load shape impacts, dispatchable loads (daily, seasonal, and/or quarterly) and anticipated C/B
- Equipment, installation, communication infrastructure, integration, marketing, and SAAS/maintenance costs
- Customer and Utility Costs (including incentives)
- Measurement and evaluation approach
- Leveraging costs of EE & financing programs

Assessment of Impact and Costs

Helps Answer: Cost / Benefit considerations

2.1.1 Anticipated Schedule

It is anticipated that Phase 1 could take 8 – 12 weeks of duration.

4.1 Phase 1: Demand Response Study (T&M)

Phase 1 will be billed on a T&M basis. It is anticipated that most of the work will be conducted remote with onsite meetings only conducted as requested by the City. Expenses for requested travel will be billed on an "At Cost" basis with no markup.

Advisory Services	Estimated Cost
Phase 1: <ul style="list-style-type: none">▪ Data Collection▪ System Benefits▪ Conceptual DR Programs (Technology Assessment)▪ Assessment of Impacts and Costs	\$49,948