

# Central Hudson Telemetry Requirements

## Overview

The Distributed Energy Resource (DER) Aggregator will procure and install a Central Hudson Gas & Electric (Central Hudson) approved Remote Terminal Unit (RTU) that will connect back to the Central Hudson Energy Management System (EMS). To make this possible, Central Hudson has built a private cloud with Crown Castle Networks to build the foundation for connectivity with our DER Aggregators. The DER Aggregator will order a leased line from Crown Castle by following the Central Hudson circuit ordering process. Crown Castle will then provide a circuit to the DER Aggregator that will be used to connect to the Central Hudson EMS. This circuit will terminate at a Central Hudson approved Network Interface Device that will provide a secure, encrypted tunnel to the Central Hudson network to complete the telemetry network requirements.

## Ownership and Responsibility

The DER Aggregator maintains ownership and all financial responsibility for the network circuit provided by Crown Castle Networks. The DER Aggregator also assumes ownership for the approved RTU used for telemetry. The DER Aggregator is responsible for purchasing the Network Interface Device that terminates the Crown Castle circuit through an Engineering, Procurement, and Construction (EPC) agreement.

Central Hudson will procure, configure, and maintain administration over the Network Interface Device that terminates the Crown Castle circuit.

## Requirements

The DER Aggregator must meet the following telemetry requirements for them to be considered an active participant:

1. The DER Aggregator must provide Central Hudson with an up-to-date name and contact information of an individual for any DER related questions or concerns
2. The DER Aggregator must order a Crown Castle circuit, following the Central Hudson circuit ordering process
3. The DER Aggregator must complete the EPC agreement to obtain the Central Hudson approved Network hardware to establish secure connections with the Central Hudson Network
4. The DER Aggregator must procure an approved RTU for communication with the Central Hudson EMS

## Telemetry

1. The DER Aggregator must procure a DNP3 capable, utility grade RTU for telemetry to the Central Hudson EMS. This RTU is solely owned by the DER Aggregator. The Aggregator will be required to confer with Central Hudson about specific data requirements.
2. The RTU must be capable of sending both hourly accumulator data and 6 second analog data
3. The RTU must be capable of receiving analog and support DO control

## Cyber Security Requirements

The Network Interface Device provided by Central Hudson shall not be modified or bypassed in any way by any other party. This device is used to connect to the Central Hudson network and only Central Hudson approved device configuration shall be implemented on this equipment to ensure a secure connection between the Aggregator and Central Hudson Control Centers.