

Summary of Data Requirements for DG/CHP Web-Based Data System

The Data Integrator project team is working with NYSERDA to collect and integrate detailed data from their portfolio of DG/CHP projects. The types of data we are looking for include:

1. **Detailed system performance data** automatically collected at regular intervals (e.g., 15-minutes or hourly) by a data logger or control system. The required data includes generator power output, fuel input, facility power use, and heat recovery rates. This data should be supplied to us in an electronic format (ASCII, XLS, etc) and can be transferred to us automatically (automated e-mails, FTP, etc) or manually (by email or disk). We can automatically receive data as often as once a day.
2. **Operational Reliability data** that is entered by your system operators once a month. This data includes information on any scheduled or unscheduled equipment outages at your site, including the time and date of the outage, its cause, and the resolution. You will be assigned an account for entering this data into an easy-to-use web page. We will remind you each month when it is time to enter new outage information.

This data will be entered into an on-line database that will allow users to track, evaluate and compare the performance of all NYSERDA-funded DG/CHP sites.

Detailed System Performance Data and Supporting Information

- Data can be supplied to us in any *consistent* electronic file format. Suggested formats include CSV, txt, ASCII, etc. The files should include time-and-date stamped records that are consistently delimited or in a fixed format. Each file should be provided with a unique filename that corresponds to the site name and the data it contains (e.g., Smith_uint2_May05.dat).
- A list of the measured values or data points that are included in each data file. The list should include the corresponding column/row in the file, the data point name, a description, the engineering units of the measurement (e.g., kWh per interval, avg kW, etc), and the sensor/instrument used to take the reading. The list should indicate if the reading is an average or sum over the interval or a sample.
- A simple schematic of the DG/CHP system that shows the location of each data point in the system.

A more detailed description of the monitoring requirements are given in the a separate document (www.cdhenergy.com/data_int/Monitoring_Data_Collection_Std.pdf).

Operational Reliability (OR) and Other Data

The OR data needs to be entered periodically to document the availability of the system. The OR section of the web site includes step-by-step instructions on how to enter the time, date, and reason of each outage event. We would also collect and one-time emissions readings that may have been collected on your system. We will provide detailed guidance and support to help you enter this information into the database each month.

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