

DOCKETED	
Docket Number:	22-MISC-03
Project Title:	Energy Data Modernization
TN #:	248097
Document Title:	Steve Uhler Comments - MISC-2022-03 Components of demand, kVA equals kW divided by power factor
Description:	N/A
Filer:	System
Organization:	Steve Uhler
Submitter Role:	Other Interested Person
Submission Date:	12/14/2022 10:32:24 PM
Docketed Date:	12/15/2022

*Comment Received From: Steve Uhler
Submitted On: 12/14/2022
Docket Number: 22-MISC-03*

MISC-2022-03 Components of demand, kVA equals kW divided by power factor

MISC-2022-03 Components of demand, kVA equals kW divided by power factor

Modern electronic electric utility revenue meters are used to collect kilo volt amps (kVA), kilowatts (kW), and power factor(PF) data.

Pursuant to Section 1353. Disaggregated Demand Data. (a)(2), kilowatts and power factor would be among the data required to be reported.

Steve Uhler
sau@wwmpd.com

Additional submitted attachment is included below.

MISC-2022-03 Components of demand, kVA equals kW divided by power factor

Modern electronic electric utility revenue meters are used to collect kilo volt amps (kVA), kilowatts (kW), and power factor(PF) data.

Electrical efficiency is expressed as a power factor in between 0 and 1, therefore the closer the power factor is to 1, then the more efficiently the kVA is being converted into actual kilowatts.

Demand is measured as kVA. Power factor changes the demand for a given kW load. When power factor is a unity (power factor of 1), kVA equals kW. As power factor lowers the demand increases for a given kW load. When power factor is 0.8, demand increases by twenty-five percent. When power factor is 0.5, demand increases by one-hundred percent.

Some rate schedules make use of power factor in setting energy charges. See attached rate schedules.

In disaggregating demand data, knowing power factor is very important in determining capacity of generation to support loads.

Pursuant to Section 1353. Disaggregated Demand Data. (a)(2), kilowatts and power factor would be among the data required to be reported.

Steve Uhler
sau@wwmpd.com