

DOCKETED

Docket Number:	17-IEPR-03
Project Title:	Electricity and Natural Gas Demand Forecast
TN #:	221993
Document Title:	Steve Uhler Comments Modeling 8760 versus 105120
Description:	N/A
Filer:	System
Organization:	Steve Uhler
Submitter Role:	Public
Submission Date:	12/17/2017 9:33:54 PM
Docketed Date:	12/17/2017

Comment Received From: Steve Uhler

Submitted On: 12/17/2017

Docket Number: 17-IEPR-03

Modeling 8760 versus 105120

Modeling 8760 versus 105120

In Material Resource Planning (MRP), it is often best to divide and conquer instead of trying to paint the big picture over and over.

Why develop a load forecast model based on a unit of measure of a hour when the product is sold in 5 minute batches containing 18,000 cycles?

A lot can happen in 5 minutes, have you done a prototype of the easiest and hardest 5 minute periods?

Do you have product structures for sources and loads for the easiest and hardest 5 minute periods?

How many 5 minute periods in the past had people on the edge of their seats?

How many 5 minute periods in the past had people relaxing with their feet up on their desks?

Pareto the problem, don't spend time on things of little consequence just to paint the big picture.

You will then have time to take a "Manned Flight Awareness" approach to solving the problems that present the most risk.

Identifying synchronous events that can take the system down will be more likely.

For example, what will the effect be from 100,000 thermostats, electric vehicle chargers and air conditioners that turn off at the same time within the same propagation because of a fixed TOU upward price change while there is large percentage of power from solar PV? How many different versions of this condition are likely to exist? Will you be able to discover the different versions before they can cause harm?

Processing data to produce prototype 5 minute periods takes much less time when using modern relational databases instead of using spreadsheets.

Identifying the risky areas to focus on can be spread over more people and departments, reducing math errors through correlation and comparison.

No need to build a electronic system to process the data, many are sitting on the shelf today, some have existed for over half a century. You may in fact already own one.

ever onward,

Steve Uhler