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Docket Number:	16-EPIC-01
Project Title:	EPIC Idea Exchange
TN #:	219828
Document Title:	Adib Nasle Comments Open-Source Modeling Framework and Translation tool end-user environment
Description:	N/A
Filer:	System
Organization:	Adib Nasle
Submitter Role:	Public
Submission Date:	6/21/2017 1:25:53 PM
Docketed Date:	6/21/2017

Comment Received From: Adib Nasle
Submitted On: 6/21/2017
Docket Number: 16-EPIC-01

Open-Source Modeling Framework and Translation tool end-user environment

In order to improve the utility of such a data sharing system, it is strongly encouraged that both a desktop and a cyber secure web-based user environment be provided for such a translation tool.

A secure web application is far more accessible and capable of delivering the hardware independence, security, and data portability modern users expect, along with the ability to enable the vendor and hardware neutral one-line, geospatial, and network connectivity visualization features that users will need and expect in order to efficiently validate the reliability of data conversion of large power flow data models between various open-source and commercial planning tools.

Such ubiquitous, and vendor neutral visualization functionality becomes even more critical if the translation features are to include the 8760 or higher resolution time-series load shape data models for each Load, and DER in a distribution model.

For those users who do not have Internet access, or feel more comfortable with traditional methods of manually installing, maintaining, and managing engineering software, and prefer to personally ensure data security on their engineering laptops or desktop PCs, a desktop version of the same application should also be provided for download and local use.

Finally, we feel that this effort should be given the same weight in dollars as the GridLab-D GUI project, particularly in light of the fact that the visualization and ease-of-use features such a translation tool will need to effectively deliver measurable utility for users, enhance collaboration, and enable data portability between researchers, academia, and industry, and the various planning tools each has standardized on.