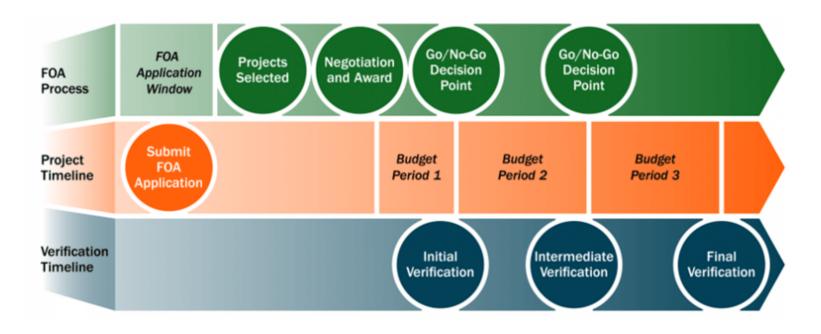




Technology Verification Process

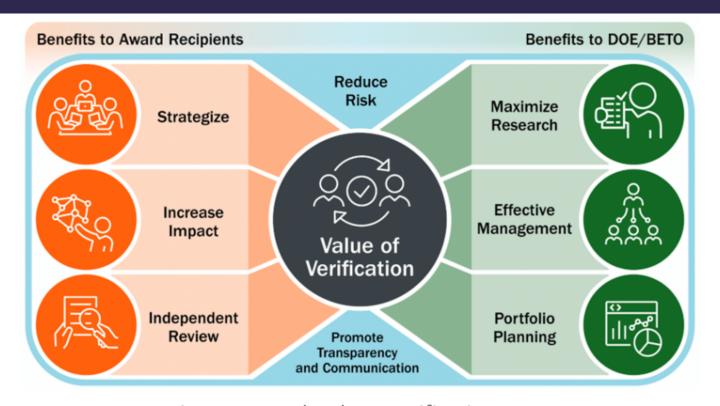




Bioenergy Technology Verification Process:



Verification Process: Purpose

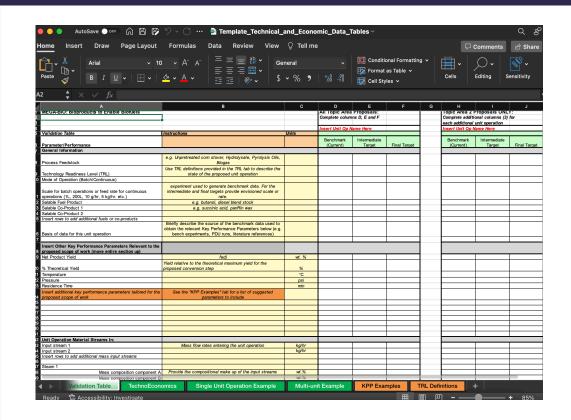


Bioenergy Technology Verification Process:



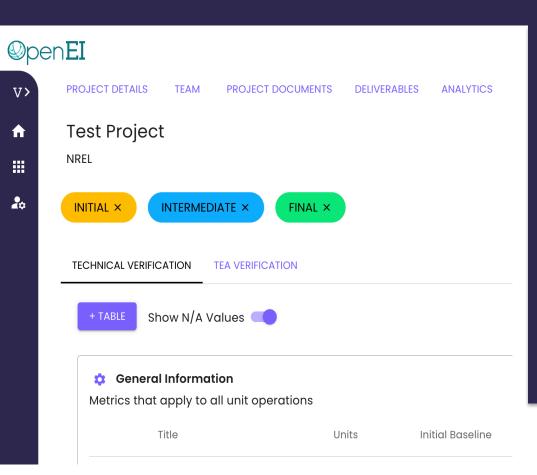
Verification Process: Technical Datasheets

- Intimidating for the project team
- Challenging to navigate and analyze
- Nearly impossible to discuss / visualize





The Data Solution



The Verify Database

Collects high level data that is important for project teams and DOE to communicate and demonstrate success.

Verify Database Design

1. Accessible and Flexible Data Collection

Data is easily collected and shared from the project team to the Verification team and DOE.



2. Secure and Centralized Data

Data shared between project teams (national labs, private entities etc) and DOE is secure and in a centralized location hosted on the cloud.



3. Enable Project and Portfolio Analysis

Data from projects is comparable and easily exported for data analysis.





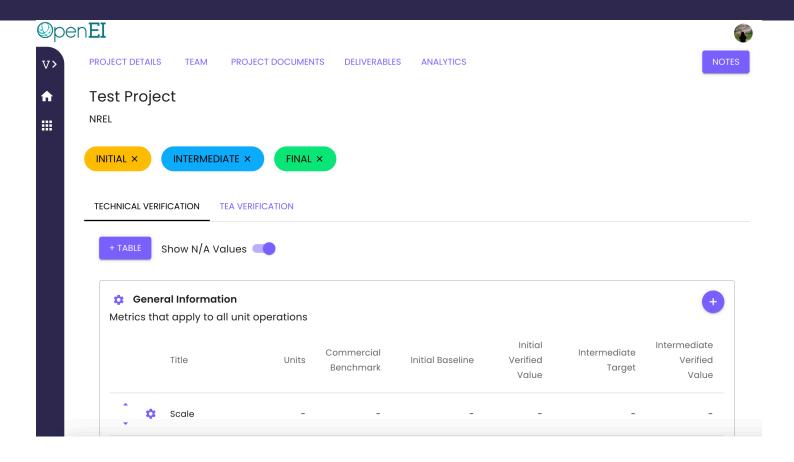
1. Accessible and Flexible Data Collection

Data is easily collected and shared from the project team to the Verification team and DOE.

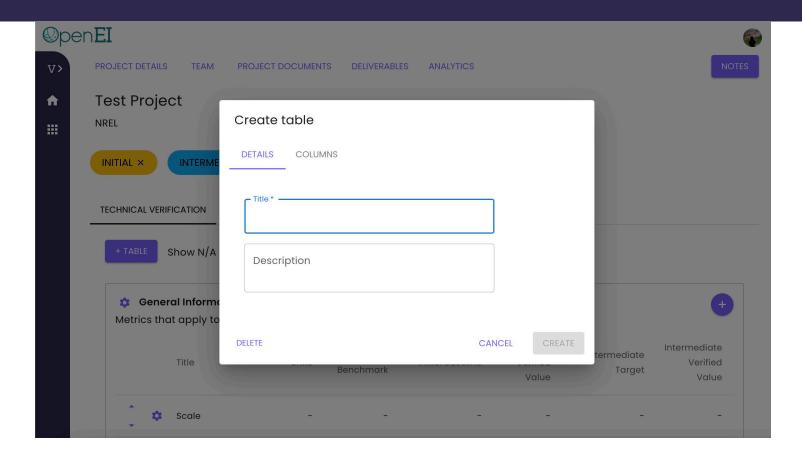
- Accommodate unique project and metric models
- Intuitive UI/UX



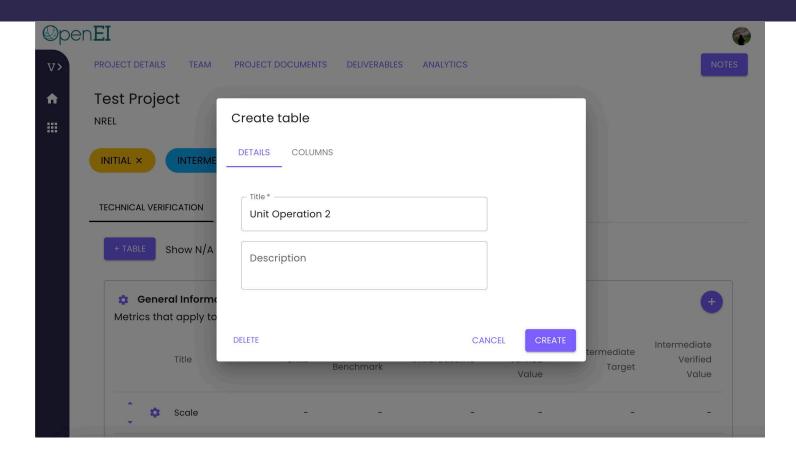




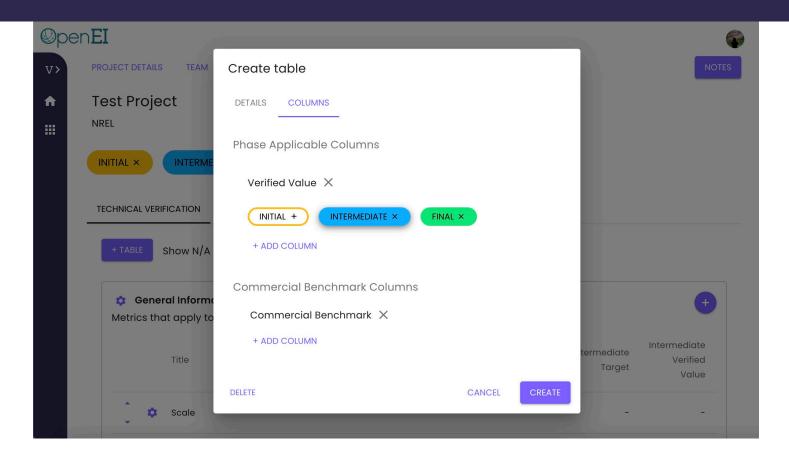




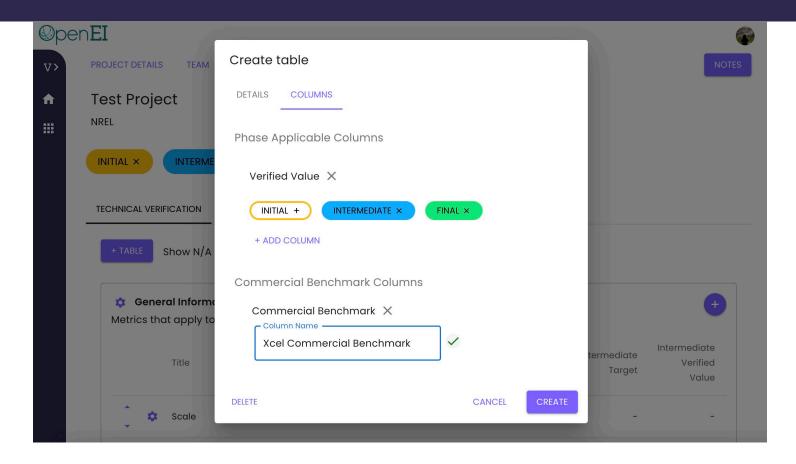




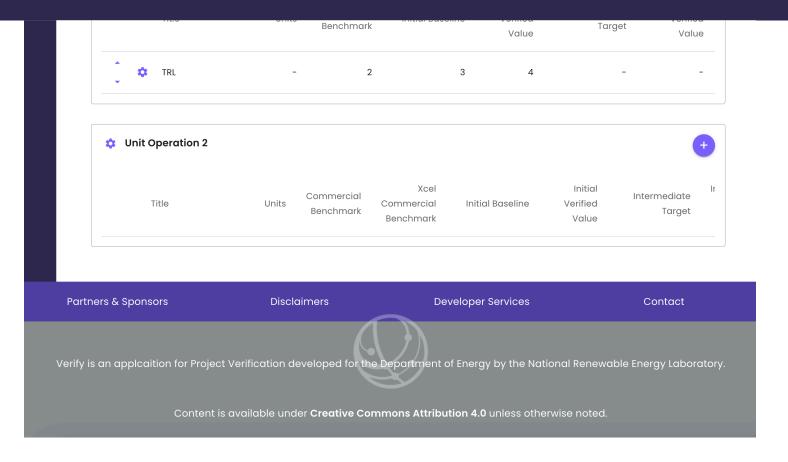






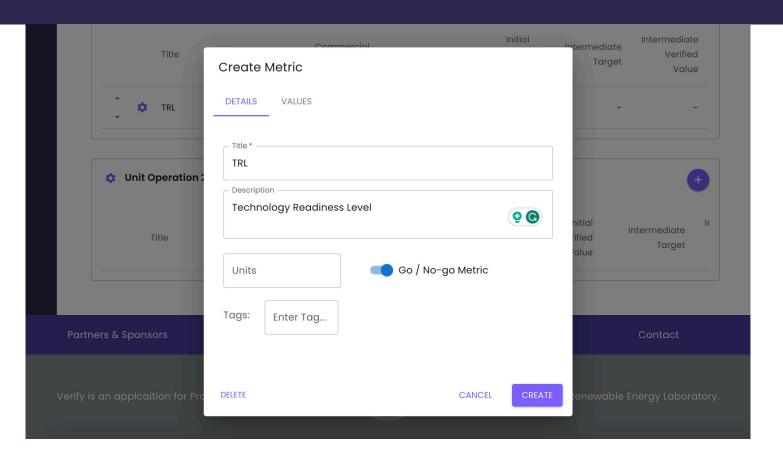






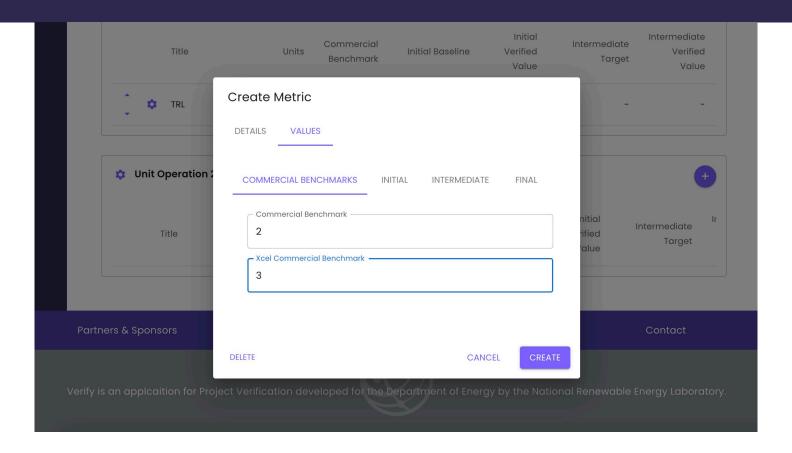


Data Model - Metrics



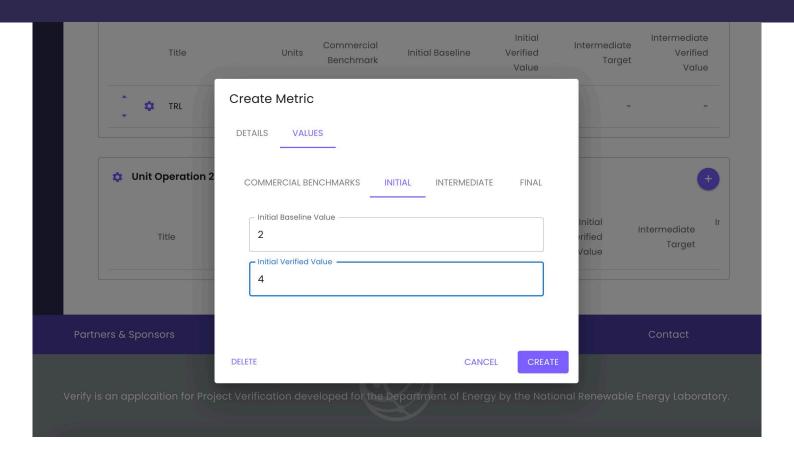


Data Model - Metrics



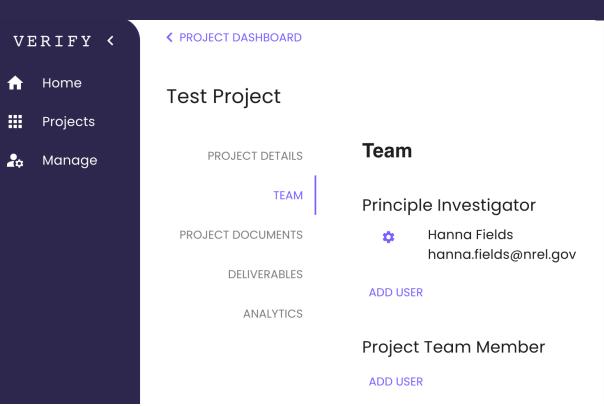


Data Model - Metrics





2. Secure and Centralized Data

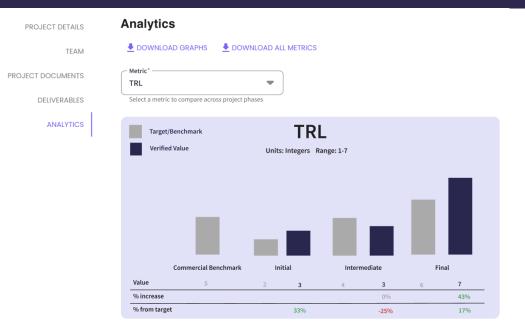


Data shared between project teams (national labs, private entities etc) and DOE is secure and in a centralized location hosted on the cloud.





3. Data Analytics



Data from projects is comparable and easily exported for data analysis.



Project wide stats

Percentage of completed data for current phase

60%

Percentage of metrics that have met or surpassed their target

80%





VERIFY

Thank you!

Visit The Verify Database at: https://verify.openei.org/

Acknowledgment

This work was authored by the National Renewable Energy Laboratory, operated by Alliance for Sustainable Energy, LLC, for the U.S. Department of Energy (DOE) under Contract No. DE-AC36-08GO28308 with funding provided by U.S. Department of Energy Office of Energy Efficiency and Renewable Energy (EERE) Bioenergy Technologies Office (BETO). The views expressed in the article do not necessarily represent the views of the DOE or the United States Government. The United States Government retains and the publisher, by accepting the article for publication, acknowledges that the United States Government retains a nonexclusive, paid-up, irrevocable, worldwide license to publish or reproduce the published form of this work, or allow others to do so, for United States Government purposes.



