



NREL Support for IRENA-CEM Global Solar and Wind Atlas



April 24, 2012

Doug Arent, Director,

Joint Institute for Strategic Energy Analysis

NREL Role in Supporting the Global Solar and Wind Atlas

- Teaming with IRENA, DLR, Paris Mines Tech, CENER, DTU, and CEM MSWWG members on atlas development with co-funding from U.S. Department of Energy
1. Design and hosting of Atlas portal on OpenEI platform
 - Builds on functionality and complementary data sets and services of the Open Energy Information portal – www.openei.org and the SWERA site
 - Linkage with data catalog developed by Paris Mines Tech and loading of initial data sets
 - Provision of NREL and SWERA resource data for countries around the world and other related data sets
 2. Co-Development of geospatial data interface with DLR
 3. Improving resource data through downscaling approaches
 4. Developing complementary analysis tools in partnership with the Clean Energy Solutions Center

Atlas Portal

OpenEI OPENENERGYINFO Login | Sign Up

Wiki Apps Datasets Linked Data

Browse Page Actions View Get Involved Help

Global Atlas for Solar and Wind Energy

IRENA
International Renewable Energy Agency

How Can You Participate?

Poseuere Metus

At vero eos et accusam us et justo odio digniss imos ducimus qui blandiis praesentium volu ptatum delenit atque corrupti quos dolores et quas molestias excepturi sint occaecati cupiditate non. Diam mi justo vitae. Nam libero tempore, cum soluta nobis est eligendi optio cumque nihil impedit.

Atlas Goals and Features

Lorem ipsum dolor sit amet, lectus quis, id massa aliquam risus. Sapien massa sed purus semper, montes orci et volutpat sed in urna, imperdiet mauris. Aliquam nibh ut vehicula erat arcu, posuere metus, pariatur erat vestibulum rutrum suspendisse. Diam mi justo vitae ante volutpat, mollitia sagittis, ut senectus varius aliquam senectus lobortis, suspendisse scelerisque ac amet ligula est.

Torquent nulla eleifend lectus gravida dapibus ullamcorper, ut egestas nam turpis. Quis et, sed nam id aliquam nisi malesuada viverra. Porttitor libero condimentum ac non dictum fermentum, lorem erat. Tortor odio amet amet, blandit nunc ultrices nunc gravida,

[Launch Geospatial Interface](#)

[Browse Data Catalog](#)

Contributing Partners

NREL CENER DLR DTU GEO CLEAN ENERGY MINISTERIAL

Draft design for the portal entry point for the Global Wind and Solar Atlas. We are working with the IRENA team to develop content for this portal page.

Features:

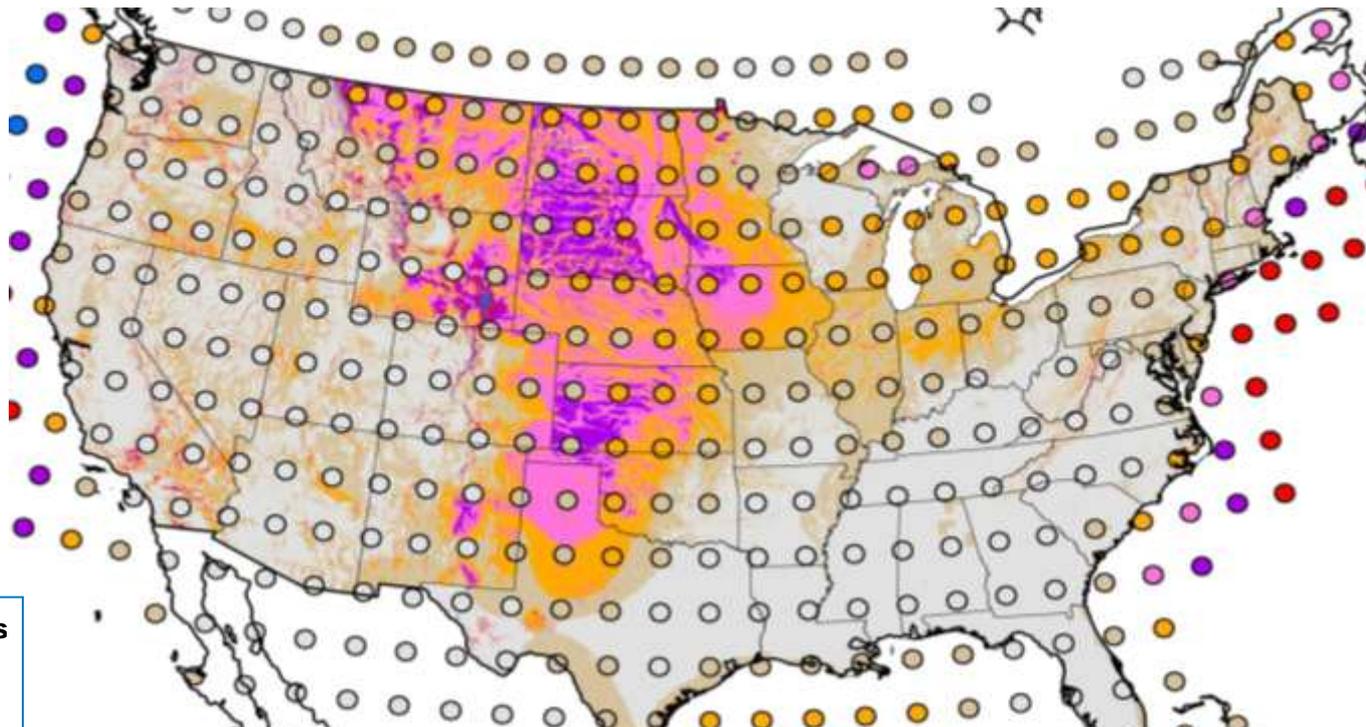
- Launch the Geospatial Interface
- Browse the Data Catalog

Atlas Geospatial Services

- Ensuring that the framework can support the loading and exploration of existing map services, including:
 - Development of the mapping components which support the display and interaction with web based spatial data services
 - Implementation of the legend viewing component
 - Integration of existing data including the services from NREL, OpenStreet Map, and Google
- Assisting with development of the functional requirements and the system architecture document
- Linking with broader Open Carto tools and capabilities

Improving Global Data Sets

- Working with Risoe, NCAR et al to improve downscaling methods for application to global onshore wind data.



Wind Class

