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Environmental Information and Renewable Energy Planning

California Offshore Wind Research, Data, and Applications



Scott Flint 1/28/2020

Staff Workshop on Offshore Wind Research, Data, and Applications California Energy Commission



California Statewide Energy Gateway

https://caenergy.databasin.org/

Access to:

- Project Gateways
- Applications
- Logic Models
- Datasets



Get Started Explore Create Workspace



California Statewide Energy Planning





ENERGY RELATED APPLICATIONS



California Climate Console

The climate console is a web application designed for exploring climate change projections for a selected area of interest.



California Energy Infrastructure Planning

California Energy Infrastructure Planning Analyst was created by the Conservation Biology Institute for the California Energy Commission to assist with planning energy development throughout the state to improve planning efficiency and to avoid environmental risks based on the best available snatial datasets

ENERGY RELATED GATEWAYS



Desert Renewable Energy Conservation Plan Gateway

The DRECP Gateway was created to support final development of the Desert Renewable Energy Conservation Plan. It will be used to engage and inform all interested parties about ongoing planning and management issues in the California desert



California Offshore Wind Energy

The Offshore Renewable Wind Energy Gateway assembles geospatial information on ocean wind resources, ecological and natural resources, ocean commencial and recreational uses and community values. This information will help identify areas off of California that are potentially suitable for wind energy generation.



San Joaquin Valley Gateway

The San Joaquin Valley Gateway provides a regional tool to help planners and resource managers develop and implement integrated multiple-benefit solutions for long-term environmental and economic sustainability. The Gateway also showcases programs and projects that have used this information resource to address resource conflicts in the Valley.



Renewable Energy Transmission 2.0 Gateway

The Renewable Energy Transmission Initiative (RETI) 2.0 Gateway supports the public process of identifying potential transmission that could access and integrate renewable energy with the most environmental, economic, and community benefits.





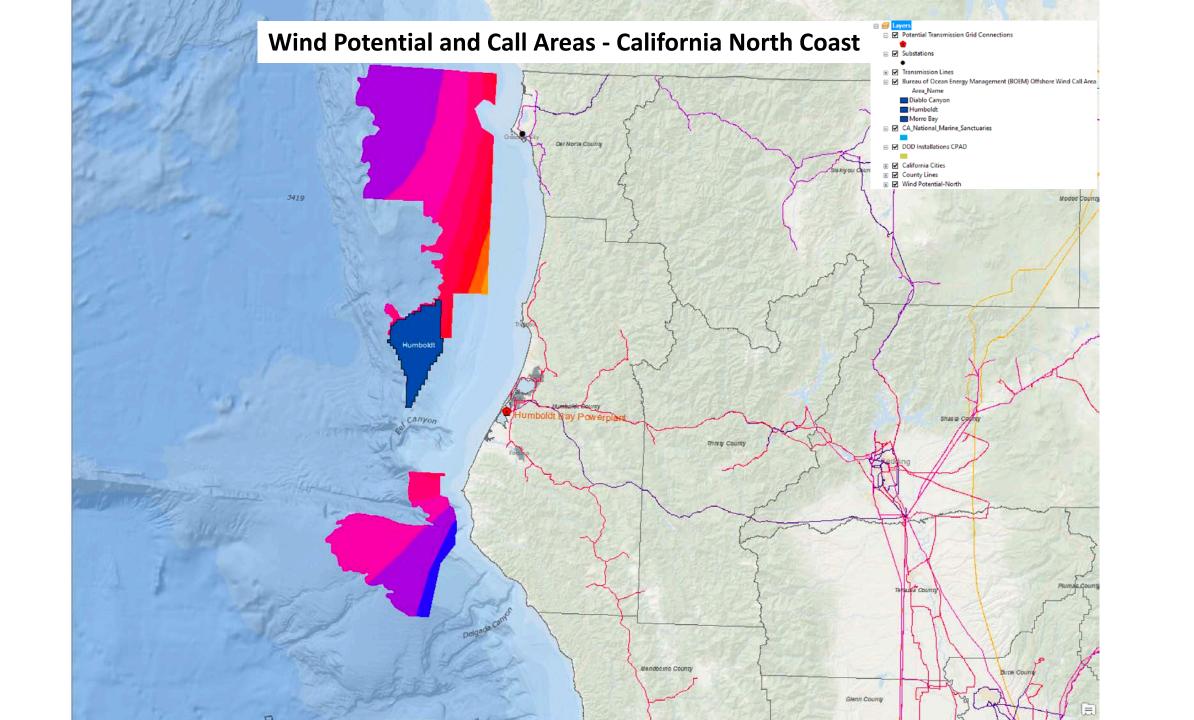
California Offshore Wind Energy Gateway

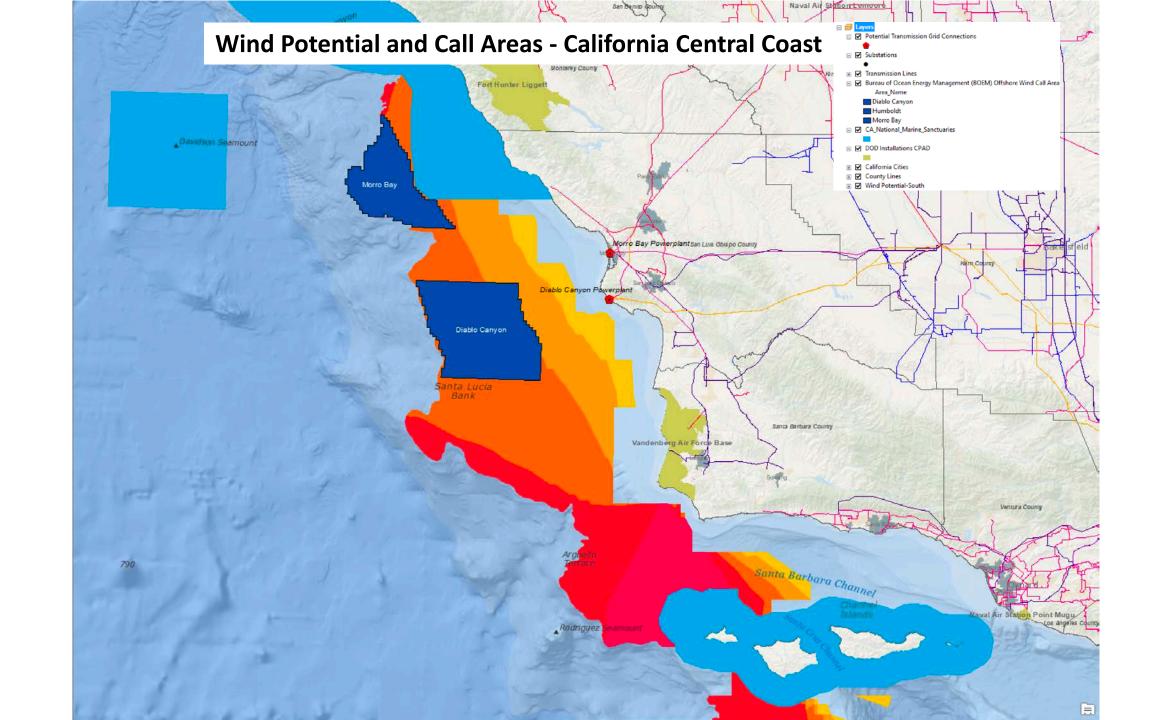
https://caoffshorewind.databasin.org//

Access to:

- Technical, Ocean Use and Environmental Datasets relevant to the assessment of offshore wind
- Thematic maps that illustrate key data sets

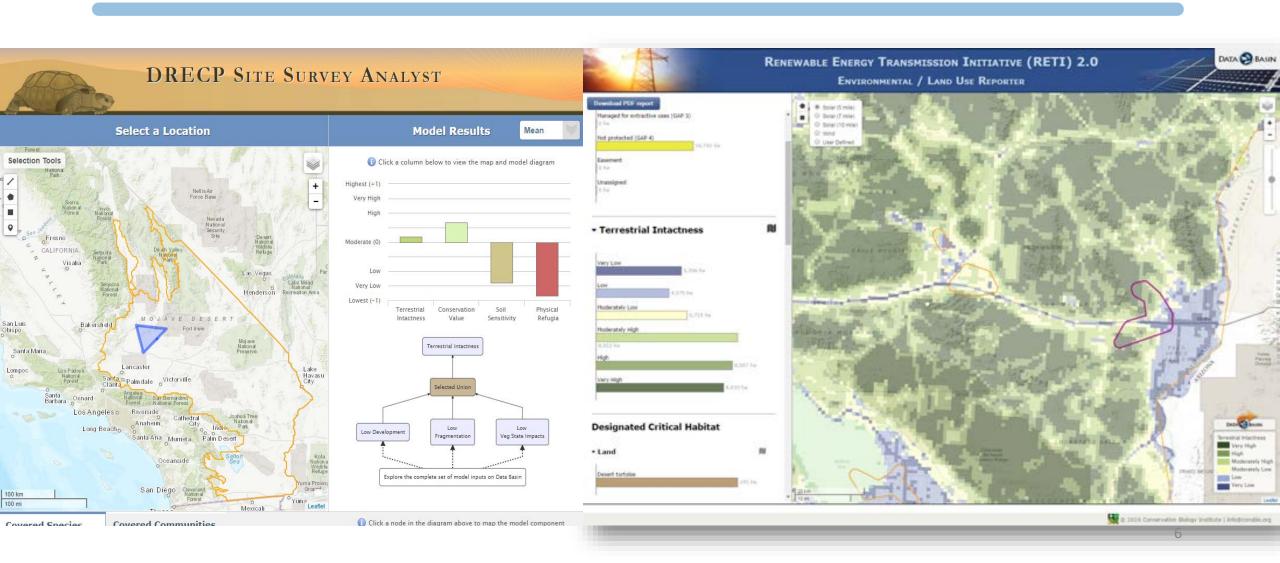








Environmental Applications – Initial Development Under DRECP and RETI 2.0





California Energy Infrastructure Planning Analyst



California Energy Infrastructure Planning Analyst

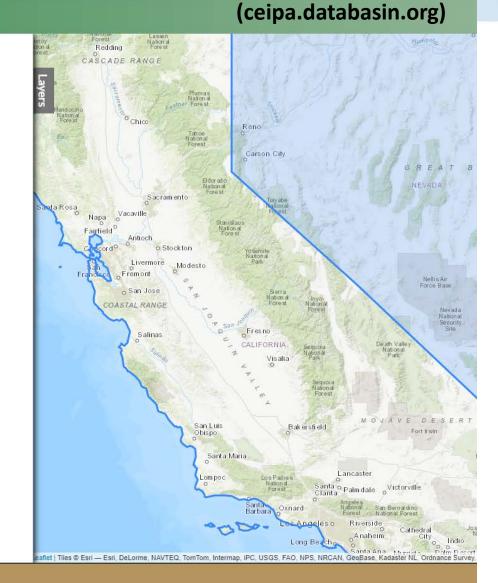


California Energy Infrastructure Planning Analyst was created by the Conservation Biology Institute for the California Energy Commission to assist with planning energy development throughout the state to improve planning efficiency and to avoid environmental risks based on the best available spatial datasets. This easy-to- use online tool allows you to locate areas (Find Areas) that meet specified criteria under three major data categories – Energy, Environment, and Land Use. Once candidate sites are identified, standardized summaries can be generated for single or multiple sites clicking the Run Analysis button.

The Analyze Areas function invites you to draw points, lines, or polygons on screen (buffer these features if desired) or upload existing shapefiles from your computer with an easy drag-and-drop option. One or more of your shapes can then be assessed against a number of preloaded datasets resulting in standardized reports for easy download and use. The simple viewer allows you to view all of the preloaded content plus your drawn or uploaded shapes against a variety of base maps for easy exploration. All spatial datasets in the tool are also available on Data Basin through quick links for further detailed review and use in customized maps of your design.

Show/Hide layers

- ▼ Boundaries
- Ecoregions
- Counties DRECP
- San Joaquin Valley
- ▼ Energy
 - Wind Power Density
 - Annual Average Direct Normal Solar Resource
 - Known Geothermal Resource Areas
- Transmission Lines
- Substations
- Federal Energy Corridors
- Power Plants
- Solar Footprints
- Environmental
- Land Use

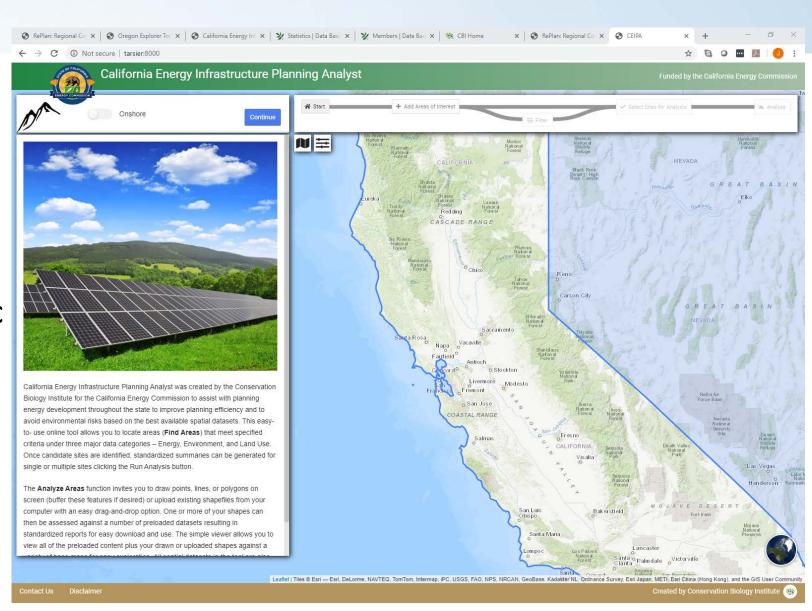




California Energy Infrastructure Planning Analyst

Onshore Option

- Focuses on Terrestrial
 Data
- Utilizes a series of logic models built from the terrestrial datasets

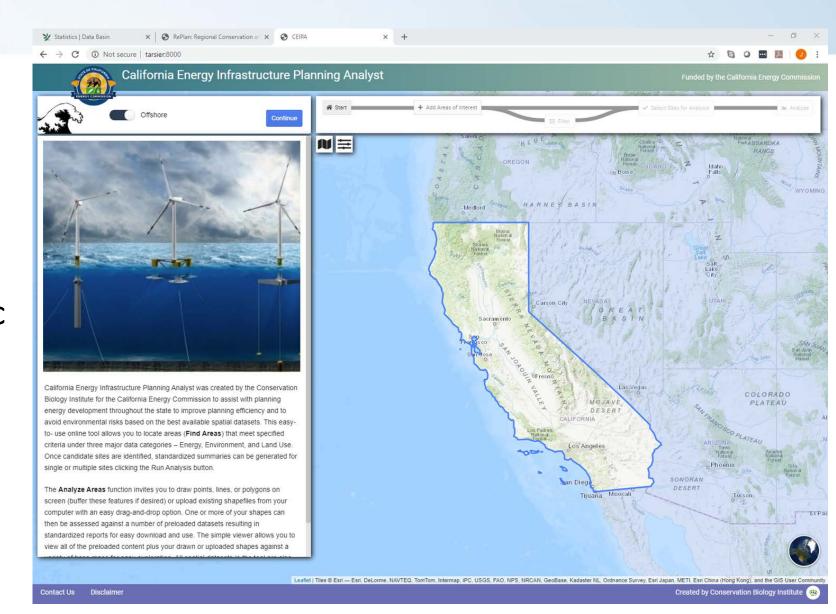




California Energy Infrastructure Planning Analyst

Offshore Option

- Focuses on Marine
 Data
- Develop Marine Logic Model(s) to assist understanding combinations of data

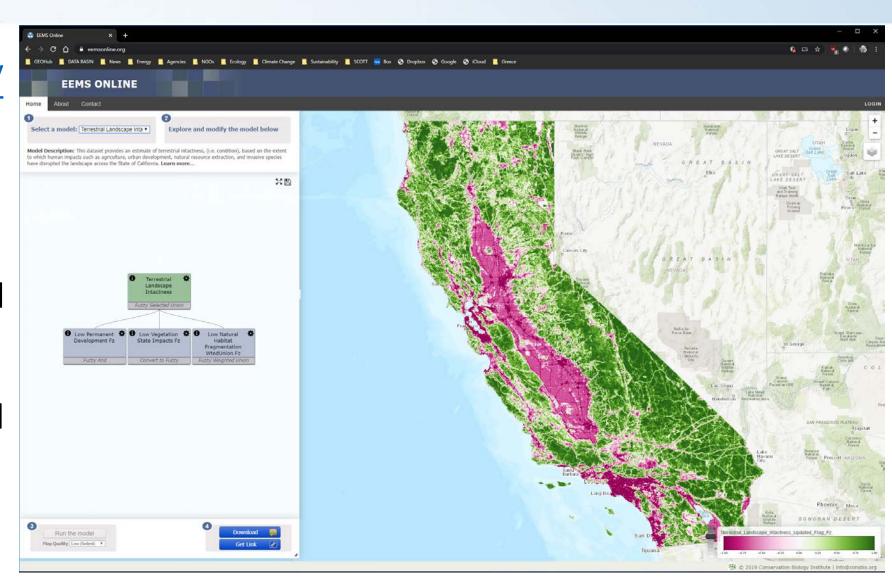




Environmental Evaluation Modeling System (EEMS)

https://eemsonline.org/

- Methodology for visualizing multiple related datasets
- Can assign priority and weights to datasets so the model will reflect the users interests and values





Keeping Informed via CEC Webpages & Listserves

 Environmental Information for Energy Planning (Docket 17-MISC-03) (CA-EIPA)

https://www.energy.ca.gov/progr ams-and-topics/topics/energyinfrastructure-andenvironment/environmentalinformation-energy Offshore Renewable Energy (Docket 17-MISC-01)

https://www.energy.ca.gov/offshore-renewable-energy



Informal Working Groups:

- 1. Enhancements to the California Energy Infrastructure Planning Analyst (CA-EIPA)
- 2. Work Updates on the two offshore wind research projects discussed today

Stakeholders wishing to join and participate in either or both, please email <u>misa.werner@energy.ca.gov</u> with your name, affiliation and email address, and indicate the working group(s) of interest.



- Due February 11, 2020
- E-Commenting:

 https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=17-MISC-01 or go to energy.ca.gov/offshore-renewable-energy "submit comments" link on the right-hand side.

See notice for e-mail and U.S. Mail commenting instructions.



Contact Information and Data Resources

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California Statewide Energy Gateway - https://caenergy.databasin.org/
California Energy Infrastructure Planning Analyst - https://ceipa.databasin.org