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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





### 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**



Coursed Charles **Covered** Communities Click a node in the diagram above to map the model component



### **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.



#### 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
- 368
- Power Plants
- Solar Footprints
- Environmental
- Land Use



eaflet | Tiles © Esri — Esri, DeLorme, NAVTEQ, TomTom, Intermap, iPC, USGS, FAO, NPS, NRCAN, GeoBase, Kadaster NL, Ordnance Survey



# **California Energy Infrastructure Planning Analyst**

### **Onshore Option**

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



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# **California Energy Infrastructure Planning Analyst**

### **Offshore Option**

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



Created by Conservation Biology Institute 🛞



# **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/offshor e-renewable-energy



- 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: <u>https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnu</u> <u>mber=17-MISC-01</u> or go to <u>energy.ca.gov/offshore-renewable-</u> <u>energy</u> "submit comments" link on the right-hand side.
- See notice for e-mail and U.S. Mail commenting instructions.



# Contact Information and Data Resources

Scott Flint California Energy Commission Scott.Flint@energy.ca.gov

California Wind Energy Gateway - <u>https://caoffshorewind.databasin.org/</u> California Statewide Energy Gateway - <u>https://caenergy.databasin.org/</u> California Energy Infrastructure Planning Analyst -<u>https://ceipa.databasin.org</u>