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Environmental Information for Energy Planning

Scott Flint

California Energy Commission IEPR Staff Workshop Art Rosenfeld Hearing Room Sacramento, California

August 2, 2017



2016 Integrated Energy Policy Report Update

Recommendations for Statewide Energy Planning and Permit Coordination:

- Continue to apply proactive tools and approaches like landscape-scale planning, to help meet renewable energy and GHG reduction goals.
- Integrate information gathered and produced from energy planning efforts, including DRECP, San Joaquin Valley Identification of Least Conflict Lands, and the Renewable Energy Transmission Initiative (RETI) to inform energy planning.
- Expedite permitting of the highest priority transmission projects.

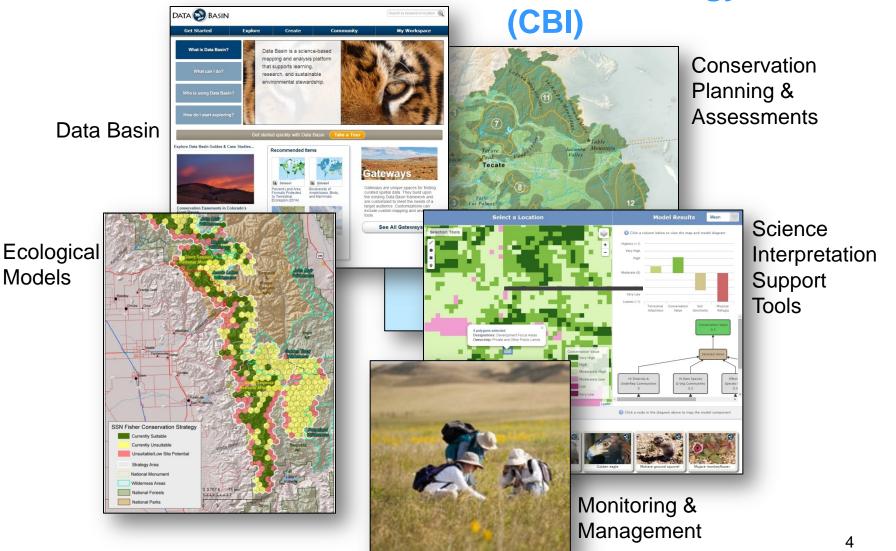


Landscape-Scale Energy Planning Processes

- Renewable Energy Transmission Initiative (RETI)
- Desert Renewable Energy Conservation Plan (DRECP)
- San Joaquin Valley Least Conflict Lands for Solar PV
- RETI 2.0
- California Offshore Wind Energy



Collaboration with Conservation Biology Institute





Data Basin Gateways: Collaborative Planning Platforms



drecp.databasin.org



caoffshorewind.databasin.org





sjvp.databasin.org



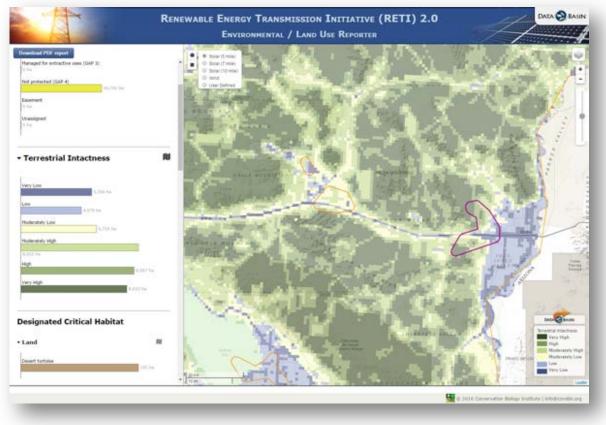
RETI 2.0 Environmental and Land Use Technical Group

Report Recommendations and Next Steps:

- Assemble accurate and representative datasets, keep them available online for use by the agencies, stakeholders, and the public.
- Periodically update and work to fill data gaps to provide a basic set of information that can be used as an input to agency planning and regulatory processes.
- Agencies and stakeholders should work together to complete the Environmental Report Writer that uses the data in landscape-scale planning processes so that the data and information could be easily used in planning and decision making.

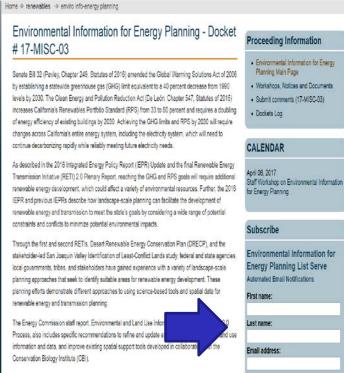


Environmental Report Writer Application Began Development Under RETI 2.0



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

- Siting Division 2017 staff work that implements IEPR and RETI 2.0 recommendations
- Continue and complete energy planning / environmental application
- Test data and functionality with a transmission case study that builds from the RETI 2.0 results
- Complementary process that helps inform the IEPR



www.energy.ca.gov/renewables/enviro_info-energy_planning/



Criteria For Case Study Areas

- Areas with significant renewable energy potential
- Areas of interest to stakeholders from previous energy-related planning proceedings
- Robust datasets and information



CEC Case Study Approach

	Imperial Valley
Desert Area South	Riverside East
Desert Area North	Victorville/Barstow
Deserrarea North	Tehachapi
San Joaquin Valley	San Joaquin Valley
	Solano
Northern California	Sacramento River Valley
	Lassen/Round Mountain



Events & Progress

- April 6, 2017 Staff Workshop "kick off" of 2017 staff work on Environmental Info for Energy Planning
- May 24, 2017 IEPR Lead Commissioner Workshop on Interactive Data Platforms
- August 2, 2017 IEPR Staff Workshop



Available on **Data Basin**

Access to:

Project Gateways

Gateways

- Logic Models
- Applications

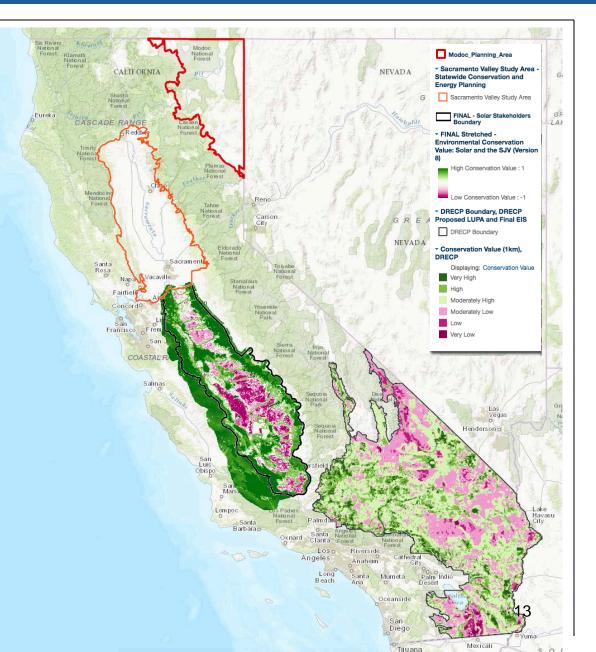
CALIFORNIA STATEWIDE ENERGY GATEWAY Get Started Explore Create My Workspace About the California Statewide Energy Gateway This gateway brings together energy planning related information and applications across California, and serves as a launchpad for accessing additional gateways and applications for specific planning processes. California Statewide Energy Planning ENERGY RELATED GATEWAYS ENERGY RELATED APPLICATIONS Desert Renewable Energy Conservation California Climate Console Plan Gateway The climate console is a web application The DRECP Gateway was creatd to support final development of the Desert Renewable Energy Conservation Plan. It will be used to engage and designed for exploring climate change projections for a selected area of interest. inform all interested parties about ongoing planning and management issues in the California desert. Other applications currently under development. 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 henefits California Offshore Wind Energy The Offshore Renewable Wind Energy Gateway assembles geospatial information on ocean wind resources, ecological and natural resources, ocean commercial and recreational uses and **Applications** community values. This information will help identify areas off of California that are potentially suitable for wind energy generation. © 2017 Conservation Biology Institute 2 ABOUT DATA BASIN TERMS OF USE SUPPORT SERVICES CONTACT US

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Statewide Energy Planning

- Develop comparable and consistent set of Data Elements
- Provide functionality through Data Basin to evaluate potential renewable generation areas, transmission upgrades and corridors





Dataset Updates in Report Writer Since RETI 2.0

ENVIRONMENTAL:

- Protected areas
- Terrestrial landscape
 intactness
- Federally designated Critical
 Habitat
- Species occurrence and status (CNDDB)
- Detailed species richness and rarity information (ACE IIv2)

- Essential Habitat Connectivity Areas
- Important Bird Areas
- Climate site sensitivity
- Climate change exposure
- Conservation value (DRECP)
- Connectivity Linkages and Condition (DRECP)
- DRECP Covered Species Stack
- Least Conflict Areas (San Joaquin Valley

Dataset Updates in Report Writer Since RETI 2.0, cont'd

LAND USE:

- Land Cover (coming soon)
- Agriculture value (coming soon)

ENERGY (private datasets):

- Federal Agency Corridors 368
- Transmission Lines
- Substations
- Solar Footprints



Written Comments

- Due August 16, 2017
- E-Commenting:
 - Go to

www.energy.ca.gov/2017_energypolicy/

- Select subject: "IEPR 2017-08-02 Workshop"
- See revised notice for e-mail and U.S. Mail commenting instructions.



Guiding Questions

- Which relevant datasets are missing from the application or make it useful?
- What are the different use cases that would be best for testing the functionality and value of the application?