| OOCKETED | | |
|------------------------|--|--|
| Docket Number: | 17-IEPR-13 | |
| Project Title: | Strategic Transmission Investment Plan | |
| TN #: | 220493 | |
| Document Title: | Presentation - Environmental Information for Energy Planning | |
| Description: | by Scott Flint 8-2-17 | |
| Filer: | Misa Milliron | |
| Organization: | California Energy Commission | |
| Submitter Role: | Commission Staff | |
| Submission Date: | 8/1/2017 2:47:47 PM | |
| Docketed Date: | 8/1/2017 | |



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



Ecological

Models

Collaboration with Conservation Biology Institute



Monitoring & Management





Data Basin Gateways: Collaborative Planning Platforms



drecp.databasin.org



caoffshorewind.databasin.org



reti.databasin.org



sjvp.databasin.org



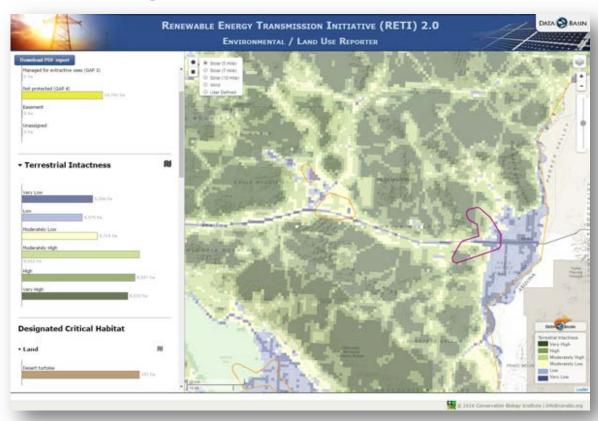
RETI 2.0 Environmental and Land Use Technical Group

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





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 |
| Desert Alea 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



CALIFORNIA ENERGY COMMISSION

Available on Data Basin

Access to:

- Project Gateways
- Logic Models
- Applications

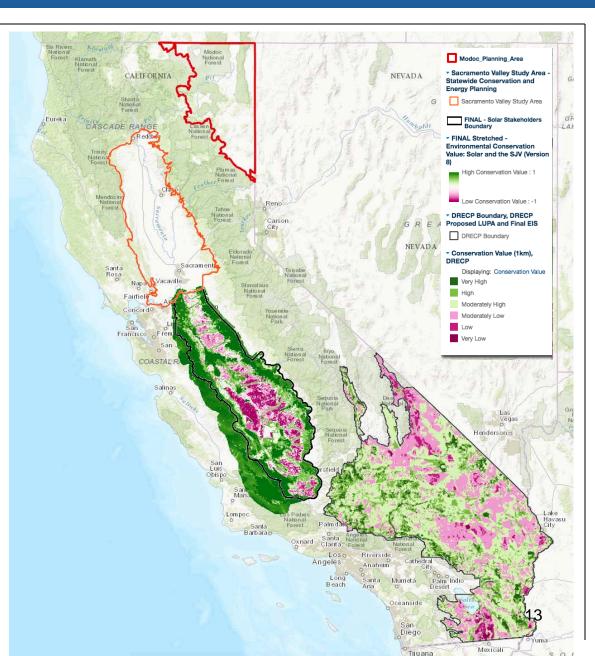
Gateways





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 towww.energy.ca.gov/2017_energypolicy/
 - Select subject: "IEPR 2017-08-02Workshop"
- 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?