

DOCKETED

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Panel Discussion: Project Examples - Using Interactive Data Platforms to Support Collaborative Planning

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IEPR Workshop

Art Rosenfeld Hearing Room

Sacramento, California

May 24, 2017



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

- Siting Division – 2017 work that implements IEPR and RETI 2.0 recommendations
- New reporting tools under development
- Test data and functionality with a transmission case study that builds from the RETI 2.0 results
- Stakeholder process that helps inform the IEPR

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Environmental Information for Energy Planning - Docket # 17-MISC-03

Senate Bill 32 (Pavley, Chapter 248, Statutes of 2016) amended the Global Warming Solutions Act of 2006 by establishing a statewide greenhouse gas (GHG) limit equivalent to a 40 percent decrease from 1990 levels by 2030. The Clean Energy and Pollution Reduction Act (De León, Chapter 547, Statutes of 2015) increases California's Renewables Portfolio Standard (RPS) from 33 to 50 percent and requires a doubling of energy efficiency of existing buildings by 2030. Achieving the GHG limits and RPS by 2030 will require changes across California's entire energy system, including the electricity system, which will need to continue decarbonizing rapidly while reliably meeting future electricity needs.

As described in the 2016 Integrated Energy Policy Report (IEPR) Update and the final Renewable Energy Transmission Initiative (RETI) 2.0 Plenary Report, reaching the GHG and RPS goals will require additional renewable energy development, which could affect a variety of environmental resources. Further, the 2016 IEPR and previous IEPRs describe how landscape-scale planning can facilitate the development of renewable energy and transmission to meet the state's goals by considering a wide range of potential constraints and conflicts to minimize potential environmental impacts.

Through the first and second RETIs, Desert Renewable Energy Conservation Plan (DRECP), and the stakeholder-led San Joaquin Valley Identification of Least-Conflict Lands study, federal and state agencies, local governments, tribes, and stakeholders have gained experience with a variety of landscape-scale planning approaches that seek to identify suitable areas for renewable energy development. These planning efforts demonstrate different approaches to using science-based tools and spatial data for renewable energy and transmission planning.

The Energy Commission staff report, Environmental and Land Use Information for RETI 2.0 Process, also includes specific recommendations to refine and update environmental and land use information and data, and improve existing spatial support tools developed in collaboration with the Conservation Biology Institute (CBI).

Proceeding Information

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CALENDAR

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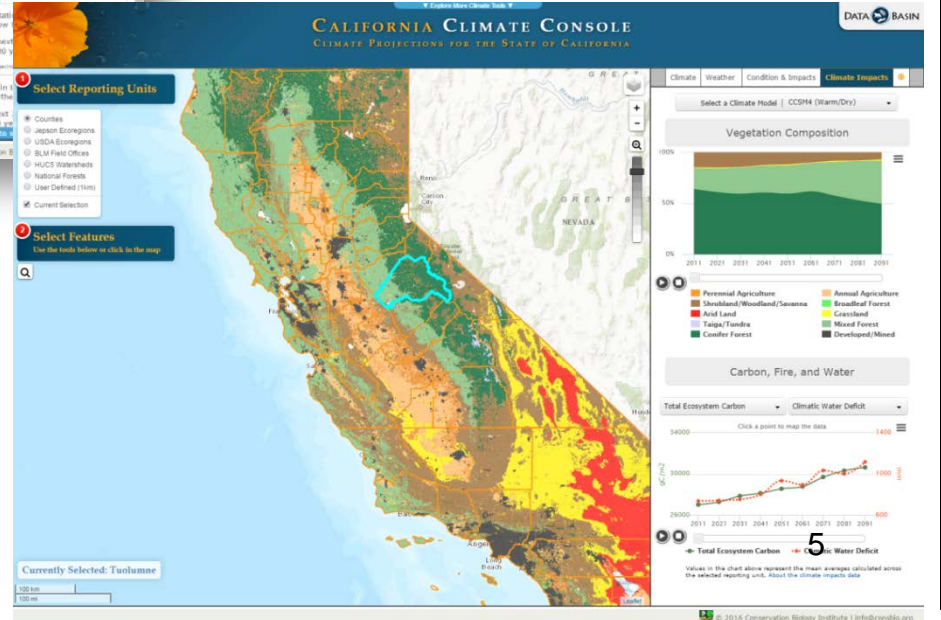
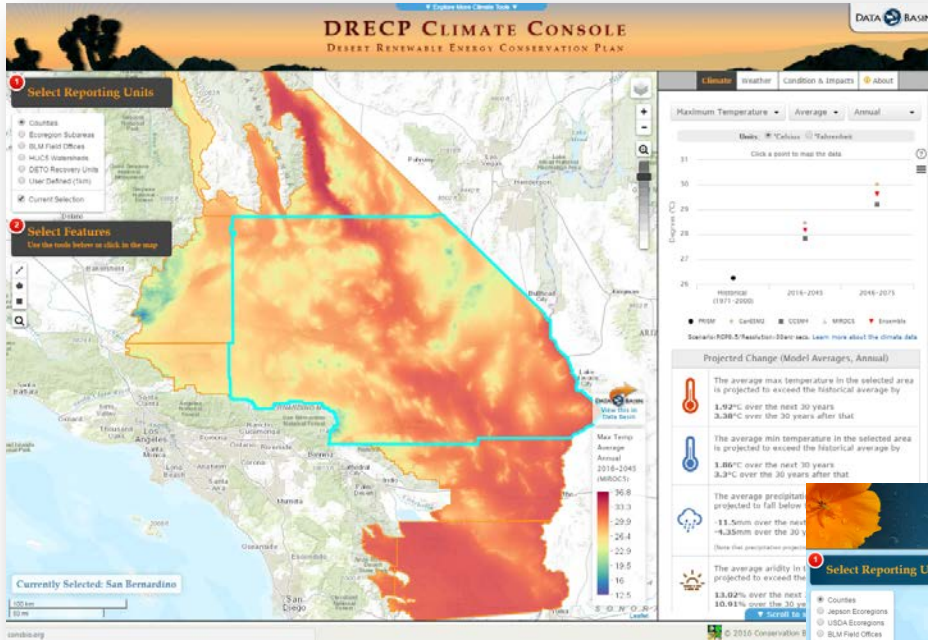


Consistent Data Elements for Energy Planning

- Renewable Energy Resources
 - Solar
 - Wind
 - Geothermal
- Conservation Elements
 - Protected Areas
 - Terrestrial Intactness
 - Species Occurrence
 - Designated Critical Habitat
 - Essential Habitat Connectivity
 - Climate Vulnerability
- Land Use Data
 - Land Use Designations
 - Range and Agricultural Land Value

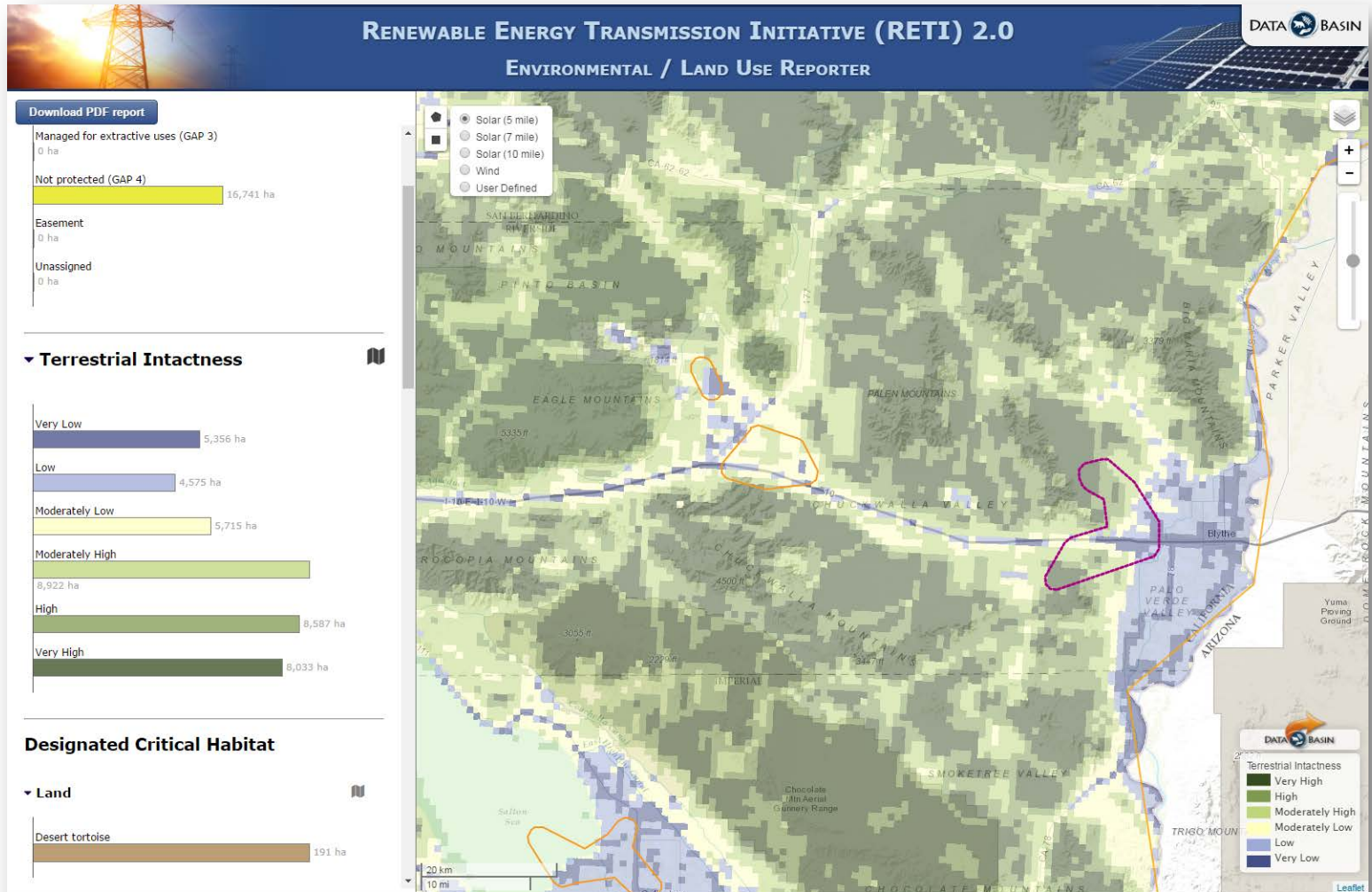


California Climate Console





Energy, Environmental and Land Use Reporter





Infrastructure Planning Assistant

RENEWABLE ENERGY INFRASTRUCTURE PLANNING ASSISTANT

1. Define Your Search Area
Click in the map to select a single county or use the drawing tools to select multiple counties.

2. Define Your Search Criteria

General Requirements | **Environmental Settings**

Enable
Adjust the slider bars below to set the maximum allowable values for each environmental setting. Move the sliders to the — left for a more constrained search (avoiding potentially environmentally sensitive areas). Move the sliders to the — right for a more relaxed search (potentially including more environmentally sensitive areas).

Terrestrial Intactness: Moderately Low (4.07)

Conservation Value: Moderately High (0.07)

Number of Covered Species: 5

3. Map the Results

Currently Selected: San Bernardino

Distributed Generation Screening Tool

Introduction | **Inputs** | Results

Energy | Environmental | Cost

Exclude Protected Areas

Number of Focal Species: Max number to include: 23

Level of Development: < Very Low (1.00)

Conservation Value: < Very High (1.00)

Wildlife Linkage Priority: < Very High (1.00)

Map the Results Q

Map showing search results in the Antelope Valley region, including locations like Lancaster, Palmdale, and Rosamond Hills.



CEC Case Study Approach

Possible areas considered for additional analysis to test data and Data Basin analytical products for their ability to identify environmental, land use issues:

- Desert Area Constraint
- San Joaquin Valley
- Other areas with renewable energy potential and existing transmission or where additional planning may be occurring



Questions for Projects Panel

1. What type of landscape planning processes have you been involved with or What project or planning activities might use Data Basin?
2. Have you used or built from existing data sets and analytical products made available on Data Basin? How has Data Basin been useful in your efforts?
3. Are you planning to share your data and analytical products on Data Basin? Will you develop any customized tools to implement and track implementation of your project?