



HUD in the Woods: Tuolumne County National Disaster Resiliency Biomass Project

Western State Wood Energy Team Forum

November 15, 2017



Presentation Outline

- Who we are
- Program Overview and Eligibility
- Project Approach and Timeline
- Replication
- Questions and Discussion



Background on SNC

- State Agency Created in 2004
- Span 22 Counties
- 60% of developed water for the State

Mission: Sierra Nevada Conservancy initiates, encourages, and supports efforts that improve the environmental, economic, and social well-being of the Sierra Nevada Region, its communities, and the citizens of California.





Program Overview and Eligibility



National Disaster Resilience Competition (NDRC) Overview

- Competitive Application Process
- State of California was an eligible applicant (one of 67)
- Rim Fire was one of three “qualifying disasters”
- California approached this as an opportunity to address:
 - Rural resilience
 - Issues of drought and wildfire, and
 - To create a replicable model



Winner	Qualifying Disaster	Approximate Award Amount
New York City	Hurricane Sandy	\$176 million
City of New Orleans	Hurricane Isaac	\$141 million
State of Virginia	Hurricane Irene	\$120 million
State of Iowa	Flooding	\$97 million
State of Louisiana	Hurricane Isaac	\$93 million
Minot, North Dakota	Flooding	\$74 million
State of California	Wildfire	\$70 million
Shelby County, Tennessee	Flooding	\$60 million
State of Connecticut	Hurricane Sandy	\$54 million
State of Tennessee	Flooding	\$44 million
State of New York	Hurricane Sandy	\$35 million
Springfield, Massachusetts	Flooding	\$17 million
State of New Jersey	Hurricane Sandy	\$15 million



Community & Watershed Resilience Program - Partners



CalEPA
California Environmental
Protection Agency





Community & Watershed Resilience Program

Community and Watershed Resilience Program

Forest and Watershed Health

Biomass removal and thinning, restoration and reforestation in burn area, strategic fuel breaks, noxious weed abatement, and rangeland infrastructure improvement

Biomass and Wood Products

Phased development of a bioenergy and wood product campus to provide marketable use for biomass removed, economic development, and local energy

Community Resilience Center

Multipurpose community resilience center that provide services during an emergency, but also serve the community year round



Community & Watershed Resilience Program

Request: \$55 million
for 2 CRCs

Award: \$20 million
for *at least 1* CRC



Job training
Community services
Evacuation center
Social and economic
benefits



Job creation
Community protection
Environmental
restoration

Job creation
Energy, wood products
Economic development

Request: \$22 million

Award: \$22 million

Request: \$40 million

Award: \$28 million



Approximate Project Locations



FOREST &
WATERSHED

Biomass removal, Restoration and
Reforestation, Noxious Weed
Treatment, Rangeland Improvements,
Critical Fuel Breaks

-  TARGET REFORESTATION AREAS
-  FUEL BREAKS



BIOMASS &
WOOD PRODUCTS

Wood Products; Biomass Co-gen Facility
(Heat, Power and Cooling Facility)

-  TARGET BIOMASS REMOVAL AREAS

-  RIM FIRE AREA
-  COUNTY LIMIT
-  LAKES AND MAJOR RIVERS
-  HIGHWAYS

Our Approach and Timeline

Project Goals

- Expand or create a facility that utilizes woody biomass from forest restoration activities
- Contribute to rural economic development and create jobs
- Complement existing infrastructure
- Create a replicable model for developing utilization infrastructure
- Finish by 2022

Approach and Timeline – Phase 1

- Feedstock and Feasibility Study through 2018
- Full analysis of available sources and viable facility designs
 - Energy + other products
 - Distributed + campus design
 - Fit with needs in County
- Results presented to Public end of 2018

Approach and Timeline – Phase 2

- NOFA to be issued in late 2018
 - Multiple projects possible
 - Grants possible to non-profits and governments
 - Economic Development Loans to private sector
- 2019-2020: Select developers, set up financing, and environmental reviews
- 2020-2022: Build out
- Operational by June 2022



Replication

Replication

- Every community is unique
- Documenting lessons learned
- What can be accomplished with a \$20 million investment?



Replication – HUD Challenges

- Rule #1: No free money
- National Objectives Take-Back Risk
- Waivers for this program:
 - Low and Moderate Income (LMI) requirement (38% vs typical 70%)
 - Job creation requirement: usually one FTE/\$35k



The Community and Watershed Resilience Program



Questions?

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More information on our program: <http://www.hcd.ca.gov/community-development/disaster-recovery-programs/ndrc.shtml>