



December 18, 2012

Mr. Kevin Reidy  
Colorado Water Conservation Board  
Office of Water Conservation and Drought Planning  
1313 Sherman Street, Suite 721  
Denver, Colorado 80203

**Re: 50 Percent Progress Report for PO OE PDA 1300000017 Water-Energy Nexus Workshop Series**

Dear Mr. Reidy:

Please find herein, Recharge Colorado's 50 percent progress report related to Water-Energy Nexus Workshop Series Grant (P.O. # OE PDA 1300000017) which was received from the Colorado Water Conservation Board (CWCBC) in August of 2012. This progress report is submitted in accordance with the grant requirements. We have prepared this progress report in a format consistent with the CWCBC's requirements for progress reporting.

**Work Completed**

Since the beginning of the project in August through November 2012, the following tasks have been completed as part of the water-energy nexus workshop series as defined in the scope of work contained in the approved grant:

**Task 1: Engage the Target Audience**

- Made arrangements and presentations about the water-energy nexus workshop series at the Colorado River, Arkansas River, South Platte River, and Denver Metro roundtables with the purpose of obtaining feedback regarding the format and content of the water-energy nexus workshop series. As a result of feedback from these meetings, we decided to change the format of the workshops from a series of speakers at each workshop to increasing the participation of the attendees and having a series of panels (water, energy, agricultural, and land use) at each of the workshops.
- Developed key message for the workshop series.
- Developed list of potential participants and outreach mechanisms spreadsheet.

- Outreached to organizations to identify panelist attendees for each of the workshops. Organizations included in the panelist outreach included:
  - CWCB
  - Colorado Springs Utilities
  - CORE
  - Aspen Utilities
  - Colorado Springs Utilities
  - Clean Energy Economy for the Region
  - Western Resource Advocates
  - Colorado River Basin Roundtable
  - Arkansas River Basin Roundtable
  - Denver Metro Roundtable
  - South Platte River Basin Roundtable
  - Aurora Water
  - Boulder Water
  - Roaring Fork Conservancy
  - Colorado Association of Municipal Utilities
  - Rocky Mountain Farmers Union
  - Colorado Cattleman's Association
  - American Institute of Planners
  - Loveland Water and Power
  - Colorado Department of Local Affairs
  - University of Colorado Wirth Chair
  - Fort Collins Utilities
  - Colorado Rural Electric Association
- Held internal team meetings to discuss progress and next steps for the tasks associated with engaging the target audience.

## **Task 2: Plan and Promote Workshops**

- Attended several conferences to promote and obtaining feedback regarding the format and content of the water-energy nexus workshop series including:
  - Colorado Water Congress Semi-Annual Meeting
  - Rocky Mountain Section of the American Water Works Association Meeting
  - Colorado Water Wise Conference
  - EUCI Conference – Water Supply Management for Power Generation
- Met with several individuals to promote and obtaining feedback regarding the format and content of the water-energy nexus workshop series including:
  - Tom Browning – CWCB Eric Hecox – South Metro Water Supply Authority
  - 
  - Todd Doherty – CWCB
  - Jacob Bornstein – CWCB

- Stacy Tellinghuisen – Western Resource Advocates
  - Russ Sands – Boulder Water
  - Curtis Mitchell – Fountain Utilities
  - Ann Seymour – Colorado Springs Utilities
  - Robin Newmark – National Renewables Energy Laboratory
  - Doug Kemper – Colorado Water Congress
- Researched and secured locations for holding the workshops.
- Researched and secured caterers for coffee and lunch at each workshop.
- Distributed save the date announcements via multiple organization websites, newsletters, and mailing lists. Save the date announcements were sent on October 3, 2012 via the following organizations:
  - CWCB to the Roundtables
  - Colorado Springs Utilities
  - City of Fountain
  - Aspen Utilities
  - City of Boulder
  - City of Aurora
  - Colorado Association of Municipal Utilities
  - Colorado Rural Electric Association
  - Colorado Energy Office
  - Colorado Foundation for Water Education
  - Rocky Mountain Section of the American Waterworks Association
  - Colorado WaterWise
  - Western Resource Advocates
  - Colorado River District
  - Northern Water
  - Southeastern Colorado Water Conservancy District
  - Recharge Colorado
- Created an online survey to collect information about individuals interested in attending the water-energy nexus workshop series. Collected information from the website on a regular basis.
- Sent workshop announcement on November 26, 2012. The same organizations used for outreach for the save the date were also used for sending the invitation.
- Recruited water, energy, agricultural, and land use panelists for each of the three workshops.
- Communicated with panelists regarding their role in the workshop series and providing background information to prepare them for their panelist roles and fielded questions as they arose.
- Communicated with non-panelist workshop attendees providing attendance details and information and fielded questions as they arose.

- Developed the workshop framework. Revised the workshop framework based on planning progress and feedback from facilitators.
- Recruited volunteer facilitators for each of the workshops.
- Created annotated agenda for workshops. Revised agenda as workshop planning progressed.
- Held internal team meetings to discuss progress and next steps for the tasks associated planning and promoting the workshops.

Ongoing work activities include final workshop preparations in advance of the workshops scheduled for December 10, 12, and 13.

### **Success of Meeting Goals and Objectives**

The goals and objectives of the water efficiency grant were met. Stakeholder feedback from the river basin roundtables and panelists has been helpful in delivering basin related framework to address the issues of concern in each location. As a result we changed aspects of the planned approach to the workshop, causing the anticipated level of effort to be re-allocated among the tasks, but the changes did not have an impact on the ability of the project to meet its objectives.

### **Obstacles Encountered**

The project team, Recharge Colorado and Great Western Institute, originally anticipated holding 3 workshops, one for the Colorado River Basin, one for the Arkansas River Basin and one for the Denver Metro area. Members of the project team spoke at each of the roundtables for the river basins and decided based on feedback to expand the Denver Metro offering to include the entire South Platte River Basin. This expansion of effort increased the marketing and outreach efforts, number of attendees, and associated administration time. However, the team felt the increased effort was minimal in comparison to the greater benefit of including the entirety of the South Platte Basin since the Denver Metro area is located in the South Platte River Basin.

In speaking at each of roundtable meetings, as noted above, the team received feedback that it would be better to have a series of panels (water, energy, agricultural uses, and land use planning) rather than a series of speakers at each of the workshops. The level of effort required to recruit multiple panelists in each focus area for each of the workshops was significantly greater than the budgeted effort planned to recruit a series of speakers. The team was able to compensate for this additional effort by identifying efficiencies in other areas of the planning budget, leading to no overall quality or cost impact on the project success.

### **Preliminary Findings**

As of the end of November 2012, the following tables summarize the panelists, facilitators, and attendees for each of the workshops.

**Table 1: Water-Energy Nexus Workshop Panelists as of November 2012**

River Basin	Water	Energy	Agricultural Uses	Land Use Planning
South Platte	Greg Dewey - Loveland Water and Power	Jordan Macknick - NREL	Tom Cech - One World, One Water - Metro State	Scott Holwick Esq - Boulder Planning Commissioner and Lyons Gaddis Kahn & Hall
	Amelia Nuding - Western Resource Advocates	Travis Graham - Schneider Electric	Dan Zimmerle - Colorado State University	
	Greg Fisher - Denver Water	John Phelan - Fort Collins Utilities	Cary Weiner - Center for Agricultural Energy	
	Randy Rhodes - Xcel	Kevin Cox - Tri State	John Stulp - Special Policy Advisor to Governor on Water and former Colorado Commissioner of Agriculture	
Arkansas	Ann Seymour - Colorado Springs Utilities	Rich Swope - Colorado Springs Utilities	Mark Glauth - Rancher in Woodland Park	
	Amelia Nuding - Western Resource Advocates	Travis Graham - Schneider Electric	Dan Hobbs - RMFU and Hobbs Family Farm	
	Randy Rhodes - Xcel	Robin Newmark - NREL		
	Curtis Mitchell - City of Fountain			
Colorado	Terry Franklin - City of Grand Junction	Travis Graham - Schneider Electric	Lindsey George - Applegate	Clark Anderson - Sonoran Institute
	Amelia Nuding - Western Resource Advocates	Jeff Rice - Aspen Utilities	John Stulp - Special Policy Advisor to Governor on Water and former Colorado Commissioner of Agriculture	Greg Moberg - City of Grand Junction
	Randy Rhodes - Xcel	Diana Golis - Holy Cross Energy		

**Table 2: Water-Energy Nexus Workshop Facilitator as of November 2012**

River Basin	Panelist	Organization
South Platte	Michael Ashford	MWH
	Leland Keller	ESource
	John Anderson	Center for ReSource Conservation
Arkansas	Mary Barber	Fort Carson
	Jane Ard-Smith	Sierra Club
Colorado	Lindsay Gurley	CORE

**Table 3: Colorado River Basin Water-Energy Nexus Workshop Attendees as of November 2012**

<b>River Basin</b>	<b>Name</b>	<b>Organization</b>
Colorado	Mark O'Meara	Town of Carbondale
	David Hornbacher	City of Aspen Utilities
	Mike McDill	City of Aspen Utilities
	Joani Matranga	Colorado Energy Office
	David Merritt	Colorado River Water Conservation District
	Chris Treese	Colorado River Water Conservation District
	Jason Haber	CORE
	Kevin Reidy	CWCB
	Taryn Finnessey	CWCB
	Ellen Vaughan	Friends of Rivers and Renewables
	Laurie Rink	Middle Colorado River Watershed Partnership
	Sharon Clarke	Roaring Form Conservancy
	Dan Richardson	SGM
	Zach Margolis	Town of Silverthorne
	Ken Neubecker	Western Rivers Institute
	Michael R. Wageck	Winter Park Water and Sanitation District
	Jason Rauen	WPX Energy

**Table 4: Arkansas River Basin Water-Energy Nexus Workshop Attendees as of November 2012**

<b>River Basin</b>	<b>Name</b>	<b>Organization</b>
Arkansas	Stacey Simms	McKinstry
	John Gillogley	Colorado Department of Corrections
	Seth Clayton	Board of Water Works of Pueblo
	Michael Fink	City of Fountain Utilities
	Rick Kienitz	Aurora Water
	Mark Shively	Douglas County Water Resource Authority
	Brett Gracely	Colorado Springs Utilities
	Tom Sanders	Beaver Park Water

**Table 5: South Platte and Denver Metro River Basin Water-Energy Nexus Workshop Attendees as of November 2012**

<b>River Basin</b>	<b>Name</b>	<b>Organization</b>
South Platte	Jeff Ackermann	Colorado Public Utilities Commission
	Tracee Bentley	Colorado Energy Office
	Russ Sands	Boulder Water
	Stacy Tellinghuisen	Western Resource Advocates
	Brad Wind	Northern Water
	Eric Anglund	Little Thompson Water District
	Libby Comeaux	Loretto Community
	Jaci Gould	Bureau of Reclamation
	Natalie Stevens	City of Greeley Water
	Marc Alston	Marc Alston Coaching
	Laurie D'Audney	City of Fort Collins Utilities
	Brian Ashe	Colorado Water Innovation Cluster/Riverside Technology
	Zach Thode	Lehi Water
	John Bleem	PRPA
	Michael Cook	Little Thompson Water District
	Travis Moore	HDR Engineering
	Todd Doherty	CWCB
	Bruce Biggi	City of Greeley
	John Gerstle	Boulder County Planning Commission
	Anne Lutz	Longmont Water and Power
	Brad Gaskill	Poudre Valley REA
	Gretchen Stanford	Loveland Water and Power
	Bert Weaver	Clear Creek County Water Bank

#### **Potential Need for Revisions**

Both the schedule and the budget allocation for the project will need revision, however, there will be no change to the overall budget amount or timeline required to successfully complete the project. A revised budget was submitted to CWCB under separate cover.

There have been two schedule changes since the beginning of the project. The first occurred immediately upon project award when the team requested a no cost change to the schedule to move the workshop series from October to December to allow sufficient time to plan and prepare for the workshops. A revised timeline was submitted to CWCB under separate cover and CWCB approved the revision. The second schedule change occurred because the 50 percent project complete point was not reached until the end of November, but was originally anticipated to occur in the month of October and the 75 percent project complete report was anticipated to occur

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in November. The schedule changes will not affect the ability to conduct the workshops in December as projected in the revised timeline. A revised timeline reflecting these and other minor changes that are not anticipated to affect the ability to complete the project within the overall schedule is included as an attachment to this report.

Please review this progress report. If you require any revisions or clarification, please contact me at your earliest convenience.

Respectfully submitted,

A handwritten signature in dark ink that reads "Caitlin C. Rood". The signature is written in a cursive, flowing style.

Caitlin Rood  
Recharge Colorado  
Project Manager

cc: Ben Wade, CWCB

## Appendix D

### Revised Estimated Project Timeline

The revised project schedule is based on a project start date of August 20, 2012, continuing through to January, 2013. The workshops are tentatively scheduled to take place in December 2012. Also included in the schedule are those dates related to the project reporting requirements under the conditions of the grant award.

<b><u>Task</u></b>	<b><u>Estimated Date Completed</u></b>
Task 1 – Engage Target Audience	
Develop Workshop Participant List and Outreach Mechanisms	September 6, 2012
Develop Key Message	September 28, 2012
Select Dates, Venues, and Panelists	November 20, 2012
Task 2 – Plan and Promote Workshops	
Email Blast for Save the Date	October 3, 2012
Develop Workshop Program	November 30, 2012
Formal Invitation	November 26, 2012
Task 3 – Conduct Workshops	
Arkansas Basin	December 12, 2012
Colorado Basin	December 10, 2012
Denver Metro Area	December 11, 2012
Task 4 – Project Reporting	
50% Progress Report	December 18, 2012
75% Progress Report	December 19, 2012
Final Project Report	January 18, 2013