Environment and Natural Resources Trust Fund 2011-2012 Request for Proposals (RFP)

LCCMR ID: 147-F3+4 Project Title: Statewide Lodging Facilities: Energy & Water Conservation Expansion
Category: F3+4. Renewable Energy
Total Project Budget: \$ \$470,000
Proposed Project Time Period for the Funding Requested: 2 yrs, July 2011 - June 2013
Other Non-State Funds: \$ 0
Summary:
Help 50% of lodging facilities statewide (roughly 1200) adopt energy efficiency and water conservation practices and save over 2.5 million kilowatt-hours, 4.5 million gallons of water, and 765,000 therms.
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Web Address www.cleanenergyresourceteams.org
Location
Region: Statewide
Ecological Section: Statewide
County Name: Statewide
City / Township:
Funding Driggities Multiple Deposits Outcomes Vacuuladas Des
Funding Priorities Multiple Benefits Outcomes Knowledge Base
Extent of Impact Innovation Scientific/Tech Basis Urgency
Capacity Readiness Leverage Employment TOTAL%

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I. PROJECT STATEMENT:

Tourism is a cornerstone of Minnesota's economy, generating \$11.2 billion in sales revenue and providing over 10% of the state's private sector employment. Statewide the tourism industry—and the lodging industry in particular (i.e., hotels, motels, resorts and bed & breakfasts)—is interested in moving toward a more sustainable tourism model: one that protects natural resources while helping these businesses thrive. Explore Minnesota Tourism's database documents that roughly 25% of the state's lodging facilities have adopted some "green practices," such as green cleaning products and recycling, but struggle with achieving broader adoption of water conservation practices and implementing cost-saving energy efficiency practices. A 2010 tourism industry survey indicates that lodging owners are interested in adopting more sustainable practices, but lack the time and energy to make sense of available information to move toward implementation.

The Clean Energy Resource Teams (CERTs) and the University of Minnesota Tourism Center are eager to provide this sought-for guidance on energy efficiency and water conservation practices to the state's lodging facilities. Our goal is to reach out, via existing tourism associations and one-on-one contacts, to lodging facilities around the state, to provide the tools they need to take voluntary action on energy and water conservation, and to document that 50% of these facilities (roughly 1,200 facilities) adopt at least one new energy efficiency or water conservation best practice over the next two years. Specifically, we seek statewide adoption of a wide variety of conservation technologies including, but not limited to:

- low-flow showerheads and faucet aerators
- compact fluorescent light (CFL) bulbs
- light-emitting diode (LED) exit signs
- lighting occupancy sensors
- smart power strips
- VendingMisers

By developing a series of step-by-step Action Kits for Energy and Water Conservation in Lodging Facilities and associated Implementation Campaigns for each of the six above-listed technologies, we aim to save over 2.5 million kilowatt-hours, 4.5 million gallons of water, and 765,000 therms.

II. DESCRIPTION OF PROJECT ACTIVITIES

Activity 1: Coordinate Development of 6 Action Kits & Bulk Purchase

CERTs, UM Tourism Center and other partners will collectively develop a series of easy-to-understand Action Kits and Implementation Campaigns that that address barriers such as confusion about the technology options, the overwhelming feeling of stepping out alone, and high upfront costs. These Action Kits will provide technology options tailored to Minnesota lodging facilities, a step-by-step guide for implementation, and bulk-buy opportunities.

Outcome	Completion Date
1. Work with existing lodging associations and tourism partners to develop the	Nov. 2011
slate of Action Kits to target and schedule for dissemination. This will help foster	
industry collaboration, ensure that the right technologies are targeted, and that	
Action Kits convey the right messages and incentives for action.	
2. Develop Action Kits for each technology that provide information on the	Feb. 2013
technology, steps to take action, and cost incentives. Supporting web-based	
materials would include savings calculations, frequently asked questions, case	
studies, installation information, order forms, and signage/branding to explain	
actions taken to guests.	
3. Coordinate bulk purchases for each technology to buy-down the initial price,	May 2013
help facilities save money, and encourage technology adoption.	

Activity 2: Carry out Implementation Campaigns to Move 50% of Minnesota's Lodging Facilities (roughly 1,200) to Adopt at least one Best Practice Budget: \$ 300,000

CERTs and the UM Tourism Center will work with existing tourism associations, CERT Regional Coordinators, utilities, media outlets and others to roll out this project to all lodging facilities across the State. Each Action Kit will be promoted via a three-month Implementation Campaign to help lodging staff understand each technology, connect with local technical assistance, and adopt a best practice.

Outcome	Completion Date
1. Coordinate broad-based project roll out and dissemination of Implementation	March 2013
Campaigns to accompany each Action Kits with lodging industry partners.	
2. Identify key lodging targets and coordinate contacts and site visits by CERT	April 2013
Regional Coordinators, UM Tourism Staff, and other project partners to secure	
bulk-purchase sign-up and adoption for each technology.	
3. Present Action Kits at regional & statewide tourism meetings/conferences.	May 2013
4. Follow up with participants to confirm installation of energy efficiency or water	May 2013
conservation technologies.	

Activity 3: Report Energy Efficiency and Water Conservation Adoption and Associated Savings Budget: \$50,000

CERTs and the UM Tourism Center will collaborate with partners to document the energy and water saving actions taken by lodging owners.

Outcome	Completion Date
1. Summarize # of technology units installed through Implementation Campaigns	June 2013
2. Calculate energy and water savings associated with Implementation Campaigns	June 2013
3. Create interactive online participant map to show other lodging facilities who else	June 2013
is taking action and thereby generate peer-to-peer pressure and reassurance to act.	
4. Develop evaluative report on outcomes, including outreach strategies used,	June 2013
number of people reached, number of people who took action, collective savings	
from technologies adopted, and participant case studies & testimonials.	

III. PROJECT STRATEGY

A. Project Team/Partners:

- CERTs is a collaboration among five partners who seek to connect communities with resources to identify and implement clean energy projects. Three partners will provide regional coordination capacity: UM Regional Sustainable Development Partnerships (UMRSDP), Southwest Regional Development Commission, and Green Institute. UM RSDP Staff will provide overall project coordination and lead Action Kit development, outreach, & bulk purchasing. (Requesting funds)
- University of Minnesota Tourism Center prepares the tourism industry for success and sustainability. For 25 years the Center has worked toward sustainable tourism, currently hosts the travel green website for MN and is a primary source for tourism research in Minnesota. The Center will draw on existing research to help assess the most effective approaches, help identify likely adopters, and coordinate with existing tourism organizations. (Requesting funds)
- Explore Minnesota Tourism (EMT) is the state's tourism marketing organization. As a next step to their Minnesota Travel Green recommendations, EMT will promote and disseminate information to the industry through their industry website, regional tourism associations, state conference and biweekly electronic newsletter. (EMT is not requesting funding).
- **B. Timeline Requirements:** This is a two-year project. We anticipate a phased roll-out of each of the step-by-step Action Kits, essentially one every 3-4 months, to allow our CERT Regional Coordinators, UM Tourism Center staff, industry associations, and regional CERT members to make a concerted outreach push for each corresponding Implementation Campaign and to facilitate technology bulk purchases. Action Kits will be ready at least one-month before roll-out and documentation and tracking will occur following the wrap-up of each Implementation Campaign.
- **C. Long-Term Strategy:** Our long-term goal is to see these energy and water conservation strategies as common practice across Minnesota lodging facilities and to see existing tourism organizations adopt this work as their own. CERTs co-coordinates Minnesota Schools Cutting Carbon an effort targeted directly to schools this project will build on that experience but explore how to tailor our work toward a business audience. This project is intended to serve as a pilot for future CERTs-Industry collaborations.

2011-2012 Detailed Project Budget

IV. TOTAL TRUST FUND REQUEST BUDGET 2 years

BUDGET ITEM (See list of Eligible & Non-Eligible Costs, p. 13)	<u>AMOUNT</u>
Univ of MN Regional Sustainable Dev. Partnerships (UM RSDP)	
Personnel: UM RSDP (for CERTs) will employ a (25% time) project coordinator to	
guide project, coordinate with industry partners, network with Utilities. (75% salary,	
25% fringe) 2 years.	\$ 37,000
Personnel: UM RSDP (for CERTs) will hire a (100% time) Action Kit Coordinator	,
to do much of the research, action guide development, metrics tracking, and	
database management. (80% salary, 20% fringe) 2 year.	\$ 98,000
Personnel: UM RSDP (for CERTs) will hire (25% time) Web and Communications	·
Coordinator for web content development, updating Action Kit materials, adding all	
guides, on-line forms, technical resources, & partners to website. (80% salary,	
20% fringe) 2 years.	\$ 28,000
Personnel: Each UM RSDP region (five: CEN, NE, NW, SE, WC) will hire a (25%	-,
time) Regional Coordinator to conduct Implementation Campaigns. \$60,000/year	
total for the 5 organizers; 2 year positions. 100% toward salary.	\$ 120,000
Contracts: Web-designer to make minor upgrades to CERT site to add in a	,
specific section for this project.	\$ 3,000
Equipment/Tools/Supplies: Printing of specific Action Kits to distribute at regional	
tourism meetings and statewide conferences to encourage adoption.	\$ 5,000
Travel: Travel (@ \$0.50/mile) for UM RSDP CERT Regional Coordinators (CEN,	5,000
NE, NW, SE, WC) to meet directly with lodging owners and attend regional &	
statewide conferences. \$2000/region/year for 2 years.	\$ 20,000
Univ of MN Tourism Center	Ψ 20,000
Personnel: UM Tourism Center will employ an Extension Educator (50% time) to	
assist with Statewide Outreach to tourism association and at tourism events	
throughout the 2 years. (70% salary, 30% fringe)	\$ 46,000
Personnel: UM Tourism Center will hire a (100%) Graduate Research Assistant	10,000
for two years. (50% salary, 50% fringe)	\$ 32,000
Travel: Travel (@ \$0.50/mile) for Extension Educator to travel to events and	Ψ 02,000
meeting with lodging facilities.	\$ 2,000
Contracts: Green Institute	Ψ 2,000
Contracts: Green Institute Regional Organizer = \$16,000/year for two years (to	
hire an organizer for the Metro region, 75% salary, 25% benefits).	Φ 00.000
<u> </u>	\$ 32,000
Personnel: Green Institute (for CERTs) Technical Staff (5% time) will review	
estimated savings, set metrics and savings calculations, aid with technology	
research. (75% salary, 25% fringe)	\$ 13,000
Travel: Travel (@ \$0.50/mile) for Green Institute (Metro CERT Regional	
Coordinator) to meet directly with lodging owners and attend regional conferences.	
\$2000/year for 2 years.	\$ 4,000
Contracts: Southwest Regional Development Commission (SW RDC)	
Personnel: SW CERT Regional Organizer = \$12,500/year for 2 years (to hire an	
organizer for the SW region, 100% toward salary)	\$ 25,000
Travel: Travel (@ \$0.50/mile) for SW RDC (SW CERT Regional Organizer) to	
meet directly with lodging owners and attend regional tourism conferences.	\$ 5,000
most another man reaging officers and attend regional tourism sofficions.	σ,000
TOTAL ENVIRONMENT & NATURAL RESOURCES TRUST FUND \$ REQUEST	¢ 470.000
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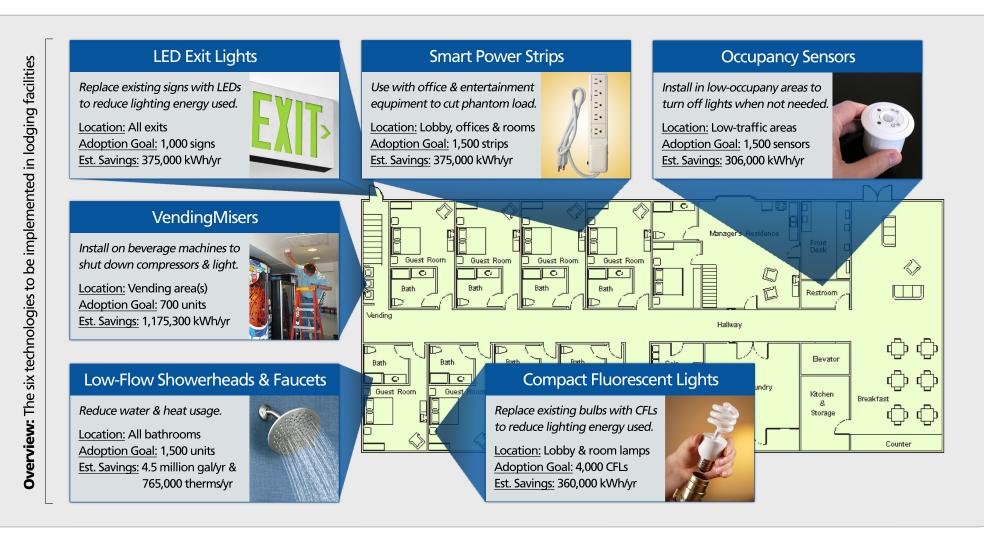
V. OTHER FUNDS

SOURCE OF FUNDS	AMOUNT	Status
Other Non-State \$ Being Applied to Project During Project Period	NA	NA
Other State \$ Being Applied to Project During Project Period: CERTs will apply for State Legislative (RDF) support next year to coincide with the FY 2012-2013 time period to cover core Staff who will also work on this project.	TBD	Pending
In-kind Services During Project Period: Tourism Industry partners will work with the project to assist with Communications and Outreach.	TBD	Pending
Remaining \$ from Current ENRTF Appropriation (if applicable)	NA	NA
Funding History: CERT partners currently (FY2010-FY2011) have dollars from both the State Legislature (RDF) and the Bush Foundation to pilot our concept of Action Guides and Education Campaigns and to document the level of savings we achieve via this trageted method.	TBD	Secured

Statewide Lodging Facilities: Energy & Water Conservation Expansion

An effort of the Clean Energy Resource Teams (CERTs) and University of Minnesota Tourism Center

Project Goal: 50% of Minnesota's 2,400 lodging facilities will adopt at least one new energy efficiency or water conservation best practice **Project Estimated Savings:** 2.5 million kilowatt-hours, 4.5 million gallons of water, and 765,000 therms



Project Activites:

For each of six technologies.

Activity 1: Develop Action Kit

Activity 2: Implement Campaign

Activity 3: Calculate Savings

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Full Timeline: This timeline covers planning, implementation of six technology campaigns, and reporting for the two-year project

Collaborate with Technology 2 Technology 3 Technology 4 Technology 5 Technology 6 Last bulk industry partners to Launch project activities 1 & 2; purchase; & action kit Technology 1 Final reporting refine targets & Technology 1 Technology 2 Technology 3 Technology 4 Technology 5 Proiect schedule schedule activites 1 & 2 activity 3 activity 3 activity 3 activity 3 activity 3 & calculations complete hr 2012 05/25/2010 ul 2012 Jan 2012 Oct 2012 Jul 2011 Nov 2011 Jan 2013 LCCMR ID 47-F3+4

Project Manager:

Melissa (Lissa) Pawlisch is the Clean Energy Resource Teams (CERTs) Coordinator for the University of Minnesota's Regional Sustainable Development Partnerships program. Lissa has spent over 12 years working on energy-related issues. In 2003, she joined the Regional Partnerships to help them launch CERTs. She has since worked with CERT program and community partners to form regional teams and steering committees, convene clean energy forums, and connect communities with technical and funding resources to implement their clean energy ideas. Lissa is an alumnus of Macalester College (B.A.) and of the Humphrey Institute of Public Affairs (M.S. – Science Technology and Environmental Policy).

Ms. Pawlisch has served as the Principal Investigator on all of University of Minnesota's CERT-related grants since 2004 and would continue to serve in that fashion should this project receive funding. Ms. Pawlisch serves as the CERT Statewide Coordinator, linking all of the CERT partners together and providing overall direction to CERTs.

Organizational Description:

The Clean Energy Resource Teams (CERTs) are a public-private partnership designed to connect Minnesotans with the resources they need to identify and implement community-scale energy efficiency and renewable energy projects. CERTs is currently staffed by the University of Minnesota's Regional Sustainable Development Partnerships, The Green Institute, Southwest Regional Development Commission, The Minnesota Project, with coordination from the Minnesota Department of Commerce's Office of Energy Security. CERTs is made of seven community-based teams around the State.

The University of Minnesota Tourism Center strives to be the leading source for tourism research & education. Our expected outcomes are the sustainable growth, development and return on investment (ROI) for tourism – a leading industry in MN and the world. The Center creates relevant & research based educational offerings to maximize ROI & consumer experiences. We contribute both theoretical and applied research to improve tourism and the multitude of decisions made around it. Our current repertoire includes 4 core educational products and a full suite of research capabilities, complemented by facilitation and seminar offerings. The Center team includes its staff, 18 member advisory committee, 21 University affiliates, and Extension's Community Vitality Capacity Area. Particularly important external partners include Carlson Companies, state government offices of Tourism and Transportation, as well as MN communities.