

**GENERAL FINANCIAL CONDITION  
JEFFERSON COUNTY WISCONSIN  
July 1, 2014**

Available Cash on Hand		
June 1, 2014	\$	(175,939.80)
June Receipts	\$	<u>6,109,237.33</u>
 Total Cash	 \$	 5,933,297.53
Disbursements		
General - June 2014	\$	4,412,969.81
Payroll - June 2014	\$	<u>1,228,412.35</u>
 Total Disbursements	 \$	 <u>5,641,382.16</u>
 Total Available Cash	 \$	 <b>291,915.37</b>
Cash on Hand (in bank) July 1, 2014	\$	1,305,594.86
Less Outstanding Checks	\$	<u>1,013,679.49</u>
 Total Available Cash	 \$	 <b>291,915.37</b>
 Local Government Investment Pool - General	 \$	 22,570,469.29
Institutional Capital Management	\$	16,129,443.95
Local Government Investment Pool -Clerk of Courts	\$	25,936.36
Local Government Investment Pool -Farmland Preservation	\$	227,652.26
Local Government Investment Pool -Parks/Liddle	\$	87,483.36
Local Government Investment Pool -Highway Bond	\$	<u>3,173,345.17</u>
	\$	42,214,330.39
2014 Interest - Super N.O.W. Account	\$	457.67
2014 Interest - L.G.I.P. - General Funds	\$	11,093.75
2014 Interest - ICM	\$	78,545.09
2014 Interest - L.G.I.P. - Parks /Carol Liddle Fund	\$	37.95
2014 Interest - L.G.I.P. - Farmland Preservation	\$	102.58
2014 Interest - L.G.I.P. - Clerk of Courts	\$	11.26
2014 Interest - L.G.I.P. - Highway Bond	\$	<u>1,510.58</u>
Total 2014 Interest	\$	91,758.88

JOHN E. JENSEN  
JEFFERSON COUNTY TREASURER

**RESOLUTION NO. 2014-\_\_\_\_\_****Purchase handicapped accessible fishing platform**Executive Summary

The Jefferson County Parks Department desires to install a handicapped accessible fishing platform on the Rock River at Blackhawk Island. An 80%/20% Sport Fish Restoration grant has been obtained from the Wisconsin Department of Natural Resources for this purpose.

This site on Blackhawk Island is the location of Jefferson County's first flood mitigation project. Fishing at the parcel, located just upstream from Lake Koshkonong, is excellent.

Bill Kohls of Fort Atkinson has been a champion of this project for a long time. Bill has been a spokesperson for the non-profit organization Fishing Has No Boundaries, whose goal is to open up the great outdoors for people with disabilities.

WHEREAS, the Jefferson County Board of Supervisors has previously approved the execution of a grant contract with the Wisconsin Department of Natural Resources for the construction of a handicapped accessible fishing platform on Blackhawk Island, including related parking facilities, and

WHEREAS, the Parks Department has solicited written proposals for the purchase of an 8' X 20' accessible fishing wharf including a 6' X 20' gangway, and

WHEREAS, the Parks Department has received two bids, one from Port-A-Pier in the amount of \$35,362, and the other from VW Docks in the amount of \$31,514, and

WHEREAS, the Parks Department recommends purchase of the accessible fishing platform from the low bidder, VW Docks,

NOW, THEREFORE, BE IT RESOLVED that Parks Director Joe Nehmer is authorized to enter into a purchase agreement with VW Docks for the acquisition of a handicapped accessible fishing platform in the amount of \$31,514.

*Fiscal Note: The total project cost is estimated to be approximately \$44,254. Of the \$44,254 cost, \$35,403 will come from grant funding from the Wisconsin Department of Natural Resources. The County's share of \$8,851 shall be provided through in kind labor from Parks Department staff and existing available funds. (On July 7, 2014, the Parks Committee recommended forwarding this resolution to County Board by a 5-0 vote.)*

Ayes \_\_\_\_\_ Noes \_\_\_\_\_ Abstain \_\_\_\_\_ Absent \_\_\_\_\_ Vacant \_\_\_\_\_

Requested by  
Parks Committee

07-08-14

Joe Nehmer & Brian Lamers: 07-01-14

Item 6a.

7/8/14  
Greg David

## Biomass Energy in Jefferson County

### Purpose:

To create a biomass energy system that is local, restorative, precautionary and cost effective over time.

### Today's Purpose:

Explain the biomass potential in Jefferson County:  
What, where, why, how, who, when,

Ask for a resolution in support.

## A Holistic Approach

### Holism

*The whole is greater than the sum of its parts.*

### Holistic

*...relating to or concerned with wholes or with complete systems rather than with the analysis of, treatment of, or dissection into parts.*

### The Systems

- Ecological
- Social
- Economic

## Biomass Energy in Jefferson County

**What** we propose is to use local biomass to heat and, maybe, electrify the new Hwy shop.

The biomass fuel would be grown locally, in a restorative manner (building natural capital - capturing nutrients, solar energy and water), using Permaculture principles.

- Perennial (lives more than 2 years),
- Poly-culture (multiples species, producing: biomass, flowers, nuts, fruit, habitat and cover)
- Fast growing (willow, box elder, basswood, hazel and mulberry are examples)
- Coppicable (able to be cut off at ground level and multiple stems will grow back)
- Utilize alley cropping (planting in long narrow bands)
- On contour lines where possible (using Key-line techniques).

## Permaculture Principles

1. **Observe and Interact**
2. **Catch and Store Energy**
3. **Obtain a yield**
4. **Apply Self Regulation and Accept Feedback**
5. **Use and Value Renewable Resources and Services**
6. **Produce No Waste**
7. **Design From Patterns to Details**
8. **Integrate Rather Than Segregate**
9. **Use Small and Slow Solutions**
10. **Use and Value Diversity**
11. **Use Edges and Value the Marginal**
12. **Creatively Use and Respond to Change**

## Biomass Potential in Jefferson County

### Where:

Local biomass could be grown in numerous private and public lands. The nature of this type of biomass plantings, lends itself to a great many soil conditions, many of them marginal or wet. Such places could be:

- Hwy right-of-ways (especially where they broaden for intersections or topography),
- In riparian areas subject to erosion,
- Areas prone to flooding. Around retention ponds,
- Areas coming out of CREP (or other similar) programs
- Areas with steep topography,
- Wetlands

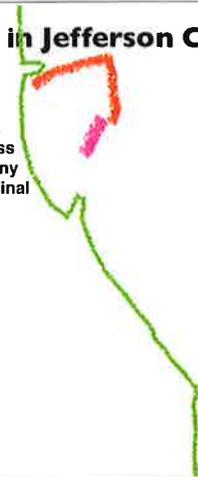
Areas chosen for biomass would be selected by a team to address concerns that may arise.

## Biomass Potential in Jefferson County

### Where:

Local biomass could be grown in numerous private and public lands. The nature of these types of biomass plantings, lends itself to a great many soil conditions, many of them marginal or wet. Such places could be:

- Along bike paths for buffering,
- As buffering from industry
- In conservation parks,
- Areas with poor soils
- Ash tree removal



## Why Biomass?

The reasons and benefits of homegrown biomass for energy are many and can be divided into three categories.

The categories relate to the three systems of holistic management:

- Ecological
- Social
- Economic

## Why? Ecological Benefits of Biomass:

- ✦ Creates water infiltration zones thru deep rooted roots systems caused by sluff-off after coppice. This creates a very porous and friable soil structure that acts like a sponge to absorb water,
- ✦ Becomes a nutrient storage battery (phosphorus, nitrogen, potassium, carbon become tied up in growing perennial environment),
- ✦ Creates organic matter. Organic matter is the basis for many symbiotic relationships that occur in healthy soil, storing water and eliminating the need for expensive and toxic inputs,
- ✦ Creates habitat and food source for animals, including bees and other beneficials
- ✦ Remediates pollution - Thru the filtration and mycological (mushrooms) actions
- ✦ Compliments wildlife corridors - Could be used in the GHA conservation lands and corridors, for buffer strips and cover,

## Why? Ecological Benefits of Biomass:

- ✦ Is carbon *negative* - Perennial crops, especially coppiced woody plants, sequester carbon from the atmosphere and can be gasified to retain charcoal for soil enhancement and/or carbon credits,
- ✦ No or low sulfur and heavy metal emissions.
- ✦ Utilizes *perennial* agriculture - Perennial agriculture never exposes land to erosion, requires very little input and captures solar energy nearly year round, giving it a *huge advantage* over annual agriculture,
- ✦ Retains water - Perennial agriculture slows water down and allows for infiltration and de-sedimentation, thereby, mitigates flooding,
- ✦ It is *restorative* in nature - Biomass is one of the only energy sources that can be practiced in a way that is actually *good* for the environment. Most others are either destructive (fracking, deep water, tar-sands) or neutral (wind, solar),

## Why? Social Benefits of Biomass:

- ✦ Creates local jobs,
- ✦ Supports local economy
- ✦ Provides open space for recreation
- ✦ Provide buffers to traffic noise and pollution.
- ✦ Distributed power reduces transmission costs hazards and impacts
- ✦ Creates local resilience
- ✦ Creates local energy security
- ✦ New model for restorative energy
- ✦ Provides clean air and healthy environment

## Why? Economic Benefits of Biomass:

- ✦ Cheaper than oil, propane, coal or gasoline
- ✦ Competitive with Natural Gas,
- ✦ Creates local jobs,
- ✦ Initiates a energy industry model - the anchor tenant
- ✦ Keeps energy expenditures local which triggers the 'local multiplayer effect',
- ✦ Local sovereignty of resource (Homegrown biomass does not have to be imported thru middlemen from elsewhere, which is costly and vulnerable to interruption and cost spikes. Being local adds stability and sustainability,
- ✦ Biomass resource will become more productive and available as crops mature, more land is planted, and infrastructure develops in our community. This will cause biomass costs to drop, as fossil fuel prices continue to rise.

## Resources:

### - Community Biomass Workbook

This electronic workbook and reference guide can help you answer initial project development questions about proven thermal wood energy options for your community or business.

<http://woodenergy.umn.edu/communityBiomassHandbook.html>

### - Wood to Energy

provides a complete literature review on the state of the science and developing a database of wood to energy.

<http://wood2energy.org/>

### - The Biomass Energy Resource Center

(BERC) works to advance the use of community-scale biomass energy throughout North America and beyond.

<http://www.biomasscenter.org/>

### - The Biomass Thermal Energy Council

is a non-profit association dedicated to advancing the use of biomass for heat and other thermal energy applications.

<https://www.biomassthermal.org/>

**Conclusion:**

**Biomass plantings can be good for the environment and support land and water conservation.**

**Biomass can be a part of our community.**

**Biomass can be a part of Jefferson County's energy budget.**

**Questions?**



HOME ABOUT **SUBMIT IDEA** GET INVOLVED

## Summary

*What is it?*

Climate Quest is a competition that will award significant grant opportunities to teams with practical, high-impact solutions to mitigate or adapt to climate change. Non-climate change-related examples of the types of solutions we seek include:

-  Social Innovation = Micro-lending
-  Product = \$1 Foldable Microscope
-  Policy = 30-Hour Work Week

### How is it different?

Unlike many traditional research projects, Climate Quest focuses on **applications and driving large-scale adoption.** Interdisciplinary teams from across UW-Madison and the community will harness cross-cutting research, thinking, and action to **create tangible solutions in the form of policies, new products, or social innovations.** The challenge is to shape and package evidence, technology, and creativity to show proof-of-concept.

### Why should I care?

Climate change offers an **urgent** challenge as well as a thrilling **opportunity to shape the future.** Climate Quest is a chance to be a part of meaningful work with creative, smart, and well-connected people who want to make a difference, while working toward grant opportunities and personal and societal gains. The experience of building a strong, multi-faceted team may also **provide competitive advantage for future funding** and research efforts.

### Who is organizing it?

Climate Quest is led by the UW-Madison Office of Sustainability in partnership with the Global Health Institute, Nelson Institute for Environmental Studies, and Wisconsin Energy Institute.



Office of Sustainability  
UNIVERSITY OF WISCONSIN - MADISON



NELSON INSTITUTE FOR  
Environmental Studies  
UNIVERSITY OF WISCONSIN - MADISON



Global Health Institute  
UNIVERSITY OF WISCONSIN - MADISON



Wisconsin Energy Institute  
UNIVERSITY OF WISCONSIN - MADISON

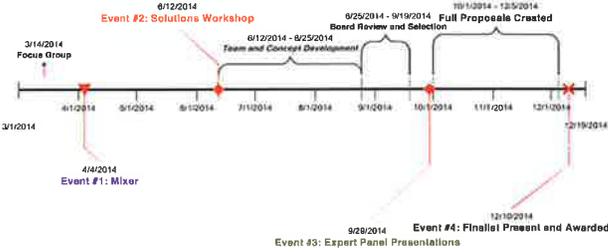
### How does it work?

- Apr 4 **Climate Quest Mixer:** Bring an idea and meet a diverse group of people
- Jun 12 **Solutions Workshop:** Form a team and learn tools for innovative thinking
- Aug 25 **Summer Concept Development:** Package idea into concept paper
- Late Sept **Panel Presentation:** Present concept to Climate Quest Board
- Oct-Nov **Proposal Development:** Write full proposal for designing, testing and proving concept
- Dec **Final Awards:** Top teams will receive resources to put ideas into practice



**DRAFT 4/1/14**

### Project Timeline



[www.climatequest.wisc.edu](http://www.climatequest.wisc.edu)



Climate Quest  
PRACTICAL SOLUTIONS FOR IMPACT

## Request for Participation Climate Quest Competition 2014

Individuals and groups are sought to participate in *Climate Quest*, a competition to develop pragmatic and actionable solutions that help society mitigate or adapt to climate change. Climate change is an urgent challenge, and UW-Madison can lead the way in creating and implementing transformative and disruptive solutions. *Climate Quest* seeks proposed solutions that scale up so that a solution sustains broad impact on society, taking social, political and financial capital into account. Technological solutions are of interest, but social innovations must also be addressed. Successful proposals will identify a critical issue or problem that is solvable but for one major obstacle, and clearly articulate the approach to overcoming the obstacle.

*Climate Quest* has three sequential phases: (i) *idea solicitation*, (ii) *solution development*, and (iii) *solution validation and prototype deployment*. The *idea solicitation* phase begins April 4 and extends through June 2014. Individuals or groups are requested to confirm their intention to participate in the competition and associated activities by **30 May 2014** (see [www.climatequest.wisc.edu](http://www.climatequest.wisc.edu)). Participants need to submit a description of their idea and the question they wish to address on the Climate Quest website. Submitters will be invited to participate, at no cost, in a *Solutions Workshop* hosted by the UW-Madison Office of Sustainability on 12 June 2014. At this workshop, individuals and groups will share and develop their proposed solutions in an environment facilitated to drive team formation and innovation using design-thinking principles. We expect that teams will coalesce during the workshop.

using design-thinking principles. We expect that teams will coalesce during the workshop.

During the second phase of the competition, *solution development*, teams that coalesce during the solutions workshop (or subsequently) will work collaboratively over the summer to refine and shape a solution and submit a detailed concept paper (details to be provided at the solutions forum). Concept papers must be submitted by 25 August 2014 and then presented orally to a review panel comprised of thought leaders from industry, government, and NGOs. This panel will select a subset of teams submitting *concept papers* to develop detailed full proposals for the final phase: *solution validation and prototype deployment*. Planning grants to develop detailed full proposals for *solution validation and prototype deployment* are anticipated for the successful teams.

Full proposals will be submitted at the end of the fall semester and then presented orally to the review board in a *Shark Tank*-style format. The review panel will select one or more of the proposals for *solution validation and prototype deployment* in 2015-2016. Winning teams will be resourced to *deploy their solution and collect the information necessary for validation*. We encourage teams to think creatively and to think big. The review board will be selecting high risk and high impact proposals. Budgets should be commensurate with the scope and expectations articulated in the proposal.

[www.climatequest.wisc.edu](http://www.climatequest.wisc.edu)

UPDATED 9 May 2014



Climate Quest  
PRACTICAL SOLUTIONS FOR IMPACT

**First Step:** Interested participants and groups must confirm their intention to participate in the competition and associated activities by **30 May 2014** (see [www.climatequest.wisc.edu](http://www.climatequest.wisc.edu)). Submitters will be provided with an invitation to attend the solutions forum on 12 June 2014.

### Addendum:

Criteria for evaluation of concepts and proposals (evaluated starting August 26, 2014)

Concept papers will be evaluated according to the following criteria by a board of judges:

- Ability to have significant impact on climate change mitigation or adaptation, meaning the degree to which proposed solution can have or demonstrate improvements in environmental, social, and organizational conditions related to climate change.
- Ability to spread idea for increased impact meaning the degree to which proposed solution can lead to wide spread adoption on a regional, national, or international level ultimately having society-wide impact.
- Ability for idea to use social innovations or policy development to advance their solution in addition to more conventional strategies, such as technological innovations. Ideas must demonstrate appeal to human stakeholders in ways that are novel, creative, and innovative.

HOME ABOUT SUBMIT IDEA GET INVOLVED

## Solutions Workshop



At this free day-long workshop, individuals and groups will develop and innovate their proposed solutions using design-thinking principles. Design thinking experts will be training teams and individuals to help turn the seed of an idea or question into a break-through solution.

Individuals or groups are requested to confirm their intention to participate in the workshop, competition and associated activities by 30 May 2014 (click "Submit Idea" to submit your idea or question).

Participants need to submit a description of their idea and basic question they wish to address on the Climate Quest website. Submitters will be invited to participate, at no cost, in the *Solutions Workshop* hosted by the UW-Madison Office of Sustainability on 12 June 2014.