



FLUX FARM FOUNDATION MICRO-HYDROELECTRIC PROJECT INTEREST FORM

Flux Farm Foundation was recently awarded a Conservation Innovation Grant (CIG) from the Colorado Natural Resource Conservation Service (CO NRCS) to develop and manage *The western Colorado micro-hydroelectric feasibility study and permitting demonstration project*.

Project Overview:

Micro-hydroelectric power generation is a renewable source of constant base-load electricity. Unlike solar or wind that rely on limited daylight and intermittent weather patterns, water flows at predictable annual rates and can often be used to generate renewable energy twenty-four hours per day, three-hundred-sixty-five days per year. The development of micro-hydroelectric projects on Colorado ranches could displace existing base-load electricity generated by coal-fired power plants thereby reducing the production of global warming greenhouse gasses while simultaneously adding value to agricultural enterprises.

Flux Farm Foundation will use NRCS CIG project funds to assist no fewer than five **EQIP eligible** landowners in conducting technical micro-hydroelectric feasibility studies, negotiating preliminary power purchasing agreements with utility providers, addressing environmental concerns associated with micro-hydroelectric project development, collecting information on water rights, understanding project economics, and approaching state and federal permitting. Projects will be selected to create a representative sample of micro-hydroelectric opportunities in the region and each will be developed into a detailed case study to assist future landowners and develop policy recommendations. **Up to \$15,000 may be available for each feasibility study with a 50/50 match requirement (i.e. we put in \$15,000 and you put in \$15,000).**

Project deliverables:

At the conclusion of the project, landowners will have a clear understanding of what their hydroelectric resource is, how much the project will cost to build, how much electricity will be produced, how much revenue can be expected, what steps will be required to meet regulatory compliance, what sources of funding are available to aid with project build costs, and what the next steps should entail. The information collected should be sufficient to apply for federal funding through the USDA 9007 Rural Energy for America Program (REAP). REAP funds come in the form of a 25% grant and/or 50-75% guaranteed loan financing.

Flux Farm is a 501.c.3 nonprofit foundation that contributes to the economic viability of agriculture by providing landowners with research driven information on how to profitably integrate renewable energy and carbon sequestration technologies onto farms and ranches in the intermountain west. See www.fluxfarm.com for more information.

Please complete & return this form to Flux Farm Foundation

**Flux Farm Foundation
c/o Morgan Williams
PO Box 967
Carbondale, CO 81623**

**Or email to: morgan@fluxfarm.com
Subject: 'Micro Hydro Project Interest Form'**

Submitting this form officially registers the project with Flux Farm Foundation. Once submitted, Flux Farm will evaluate the form, contact the project lead and schedule a site visit if appropriate. If you do not have any of the requested information (below), please write "NOT SURE". **Please submit your request by October 15th 2009.**

Contact Name	
Contact Phone	
Contact e-mail	
Project City	
Project County	
Utility Provider	
Name of Ranch	

Description of Agricultural Operation	
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Project Description	
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Reason to develop project	
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Description of water rights status	
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Average stream flow per month	<table border="1" style="width: 100%; text-align: center;"> <tr> <th>Jan</th><th>Feb</th><th>Mar</th><th>Apr</th><th>May</th><th>Jun</th><th>Jul</th><th>Aug</th><th>Sep</th><th>Oct</th><th>Nov</th><th>Dec</th> </tr> <tr> <td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td> </tr> </table> <p>(Provide stream flow chart if available)</p>	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec														

Minimum stream flow that must be maintained.	
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Does a penstock or irrigation pipe exist?	
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What is the estimated penstock length and diameter?	
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What is the distance to the nearest power line? Is it three-phase or single-phase?	
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Estimated vertical drop over the project area (total head)	
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Estimated system size	
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Estimated system cost	
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What is the land ownership of the project (public, private, describe)?	
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List the name(s) of consultants you have contacted (if any)	
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Annual farm/ranch energy consumption	
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Thank you for your interest in participating. We will inform you once your application has been received.