



Biofacilities Overview

An Interagency Effort by the Departments of Agriculture, Interior, and Energy

RETECH

February 4, 2010

Faline Haven

USDA Forest Service , Office of Tribal Relations

Introduction

- The Energy Policy Act of 2005 and Executive Order 13423
 - mandates all federal agencies to increase the amount of
 - renewable energy used at their facilities by 2% a year for
 - next 10 years.
-
- The DOE Federal Energy Management Program is tasked
 - With assisting all federal agencies in meeting these mandates.

Objective

Reduce the amount of woody biomass residues collecting on federal properties by using these materials as feedstocks for generating heat and electricity.

Heat and electricity generated would primarily be used to meet heating and power demands at participating facilities.

Biofacility Site Section Criteria

1. *Does the site have an available biomass feedstock?*
2. *Are there multiple biomass suppliers in the area?*
3. *Is transportation infrastructure in place?*
4. *Does the site have local environmental group support?*
5. *Does the site have local community support?*
6. *Did the site participate in the CROP study?*
7. *Does the site have Line Officer support?*
8. *Will the Forest Service, Bureau of Land Management, a Tribal Nation, Department of Defense, or another federal agency also participate in a project?*

Preliminary Organization of Sites

Agency	Region	No. of biomass resources sites in Region
Forest Service	1	2
Forest Service	2	26
Forest Service	4	3
Forest Service	5	3
Forest Service	6	6
Forest Service	9	15
Bureau of Land Management	Oregon & Arizona	54
Yakama & Colville Tribes	Washington	4
Total Number of Projects	8	113

Project Roadmaps

Two Roadmaps were identified for project development.

	Roadmap 1 Projects	Roadmap 2 Projects
Description	Confined to individual federally-owned forests. On-site and local woody biomass residues would be used to provide heat or electricity to the buildings on the property.	Woody biomass from groups of federally-owned forests in a region would be combined with other local woody biomass residues to support a larger biomass facility. The facility can be located on federal property but does not have to be. Heat and electricity demand for the participating forests would be addressed first with surplus electricity sold to other federal facilities in the region and the public.
Contracting vehicles	Super Energy Savings Performance Contracts	Stewardship agreements, Power Purchase Agreements
Project Financing	Third party	Third party

Project Development Process

- 1. In FY10 FEMP will develop 8 Feasibility Studies on woody biomass use in generating heat and power. FEMP ARRA funds will be used. The heating and power demands and the available biomass residues of each site will be addressed in the studies.*
- 2. With assistance from Forest Service, BLM, and tribe FEMP will collect site data.*
- 3. The Biofacilities Planning Team (USDA, DOI, DOI) will brief region and the sites within each region on the objectives of the effort, how the data will be analyzed, and how the recommendation on whether to proceed as a Roadmap 1 or Roadmap 2 type effort will be made.*

Project Development Process

4. *The Biofacilities Planning Team will analyze the data and make preliminary recommendations for Roadmap 1 and Roadmap 2 development.*
5. *The Planning Team will present their recommendations to each region and site for discussion and consensus.*
6. *FEMP will provide training to FS, DOI, and the tribal office on use of Super Energy Savings Performance Contracts and Power Purchase Agreements.*
7. *FEMP will complete each Feasibility Study will revisions as needed/recommended by field staff.*

Each Feasibility Study will

- *Provide each region with sufficient information to make an informed decision regarding whether to proceed*
- *Address the heating and power needs of each site and how those needs could be addressed through the development of a biomass plant*
- *Address woody biomass residue minimization through conversion to feedstocks for each site within a region*
- *Recommend which sites should proceed as Roadmap 1 type efforts and which should Roadmap 2*
- *Recommend preliminary biomass plant sitings*
- *Include preliminary cost/benefit analyses*
- *Include preliminary Greenhouse Gas benefits analyses*
- *Include preliminary job creation benefits*

Project Schedule

<i>November 9, 2009</i>	<i>Biomass surveys sent to all F.S. and BLM sites</i>
<i>November 24, 2009</i>	<i>Briefing to Woody Biomass Steering Committee</i>
<i>December 18, 2009</i>	<i>Biomass surveys due from F. S., BLM & Tribal sites</i>
<i>December , 2009</i>	<i>Data analysis begins</i>
<i>January 30, 2010</i>	<i>Data analysis completed</i>
<i>February 2010</i>	<i>Regional Office visits/briefings at 6 Forest Service Regional Offices, BLM Oregon Office, and Yakama & Colville Tribal Offices. Regional and site officers to attend.</i>
<i>March – April 2010</i>	<i>Site visits/briefings</i>
<i>February – May 2010</i>	<i>Preliminary Task Order lists developed for each project; preliminary biomass plant site selections</i>

Project Schedule

June 2010

Visits to all Forest Service Regional Offices, BLM Oregon Office, Yakama Tribal Office to present, discuss, review, and adjust as necessary Task Order Lists.

*July – August 2010
August 30, 2010*

*Feasibility Studies finalized
Feasibility Studies submitted for review to offices*

September 30, 2010

Finalized Feasibility Studies submitted