Issue/Group	Barriers and Obstacles	Key Outcomes Needed	January–June 2006	July-December 2006	January–June 2007	July 2007 and beyond
Predictable Supply	Uncertainty as to cost of product	Credible enforceable long-term	Public and political	Identify existing	Policy changes to	
	2. Process to implement vision predictably at	contract (supply)	consensus to ensure	stewardship contracts	extend contracts more	
	federal level	2. Define sustainability and desired	long-term supply	we have working	than 10 years	
*Scott Aycock,	3. Lack of landscape level (CROP like)	future condition	(multi-	now.	2. Federal legislation re:	
David Schmidt,	planning across ownerships	3. Coordinated planning effort- federal to	administrations)		managing forests after	
Jim Hallberg,	4. Vision of the future (and process to	local level	2. Inventory examples		they burn	
Ron Saranich, Bill Hatton,	develop a vision)desired future condition	Investigate feasibility to implement CROP statewide	of existing		3. Demo contract	
Sandy Lonsdale,	5. NEPA contracting (5-year review)	5. Supportive appropriate NEPA process	stewardship contracts 3. State to provide clear		(working models) at multiple scales needed	
Joe Misek, and	6. Long-term contracting on public lands	6. Project designs that minimize NEPA	expectations to		in Oregon (mid 2007)	
Gary Lettman	7. Lack of consensus on what forest can	costs (collaboration prior to NEPA)	federal agencies		in Oregon (inia 2007)	
July Bettimum	sustain environmentally	7. Monitoring process to assess	(short-term)			
	8. Litigation and appeals on public projects	effectiveness and promote adaptive	4. Move on projects to			
	9. Lack of appropriation—commercial use	management	get fuel supply in			
	biomass program	8. Incentive restoration through biomass	place while tax credit			
*Convener	10. Mortality as a threat to predictability	utilization	is in existence			
	11. Inconsistent federal funding	9. Working models of projects that use	(sunsets 12/31/07,			
	(appropriations)	stewardship structures (and others) to	takes 18 months to			
		demonstrate viability	initiate project)			
		10. Respond to changing legal				
		environment (e.g. see #2 in 2007)				

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Shared Vision and Public Support *Rod Nichols.	National standards exclude forest biomass from renewable certification Not yet at consensus. "Consensus"—Must define: is 100% possible? Is necessary? Competing interests (balance successes	Issue is time-sensitive—consensus of "critical mass" is essential to build capacity to move forward Education—to include: Output Description and extending of the sensitive and	Establish communications sub- committee Establish communications plan	2006 summer tour to view demo projects (OFRI and co- sponsored by FBWG) Outreach to utilities in	Results-oriented conference or summit to share outcomes of projects Outreach activities for	Summit: share findings from projects Provide information
Mike Cloughesy, Jim Hallberg, Doug Heiken, Loren Kellog, Tad Mason, David Schmidt, Lorette Ray, and Kathy Shinn	with long-term plan) 4. Biomass supply 5. Prioritization with stakeholder engagement 6. Fear of unknown 7. Energy side barriers – ex. Green E seal of approval 8. Vision for the future (and process to develop a vision) – desired future condition 9. Lack of Consensus on what forests can sustain environmentally	 Comprehensive understanding of direct and indirect benefits at social, economic and ecological levels Need to contrast consequences of choices/or lack thereof Information on economic value of benefits, i.e. economic value of a clear, etc. Maintain open communication and access to information Articulated vision 	communications plan with feedback loop 3. Explore potential connections with Tillamook and World Forestry Centers 4. Specialized outreach: rural banks; legislative staffers 5. Recognize and emphasize human as well as resource	2. Oureach to utilities in rural communities as part of projects 3. Focus on a particular project and bring entire community into project	2. Outreach activities for demo projects 3. Outreach to specialized publics - rural policy makers - banks - legislative staffers	and strategies to state lawmakers (O)
*Convener	Performance measures disconnected with biomass goals (O)	 Agreement on "value"—economic, ecological, etc. Viable projects (demo or otherwise) Allowable forest treatment Focus on proven technology (short term) Multi-tiered engagement Strategies for collaboration at the local level on specific projects Scalability of projects to match supply and community scale Connect biomass goals with performance measures (O) 	issues 6. Capitalize on existing resources (programs, websites, etc.) 7. Create clearing house of information (Multi-tired? Web page?) 8. Strategies to assess concerns and issues of the spectrum of stakeholder groups 9. Strategy for interaction with other active (biomass) groups (O)			

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Economy and Market Development	 Capital—availability Cost of capital Transportation costs People not aware of biomass as a potential 	Sustainable supply Healthy rural economies—position contribution from biomass Family wage jobs with benefits	More integration (such as this group) between state agencies, federal	One-stop shopping to obtain necessary biomass information Incentives for private	Develop models for local businesses and agencies to utilize (Lakeview example)	
*Martin Desmond, Ron Saranich, and Sandy Lonsdale	for electrical generation especially in the utility industry Infrastructure—need to have it to get the energy out. Includes extraction, processing, and electric delivery infrastructure Human resources need to improve (right	4. Need to look at multiple market opportunities (energy, biofuels, small wood products) 5. Identify distinct barriers and opportunities related to biofuels 6. Consider broadening incentives to include areas other than electricity –	agencies, rederar agencies, and economic development agencies 2. Make biomass development a priority for the	timber owners to sell their own biomass; add value to resource (CO ₂ credits) 3. Examine recommendations for extension/ expansion	Explore tax credit/ incentives option for biomass utilization on private property Expansion of stewardship contracts, i.e., increase number	
*Convener	skill set) and increase the availability of the workforce 7. Assurance of adequate biomass supply. 8. Concern about regulatory action 9. Need to be able to cost effectively breakdown cellulose to generate biofuels, i.e. ethanol 10. May not be able to sell "Green tags" from forest biomass 11. Lack of validation of CO2 value of land management practices	e.g. restoration, etc. 7. Engage rural communities as stakeholders with economic development interests 8. Increase awareness of CO2 values and other air pollutant tradeoffs associated with land management 9. Make recommendations on incentives that make an attractive market environment. 10. Explore symbiosis between value-added products and bioenergy	Governor, state legislature. Refocus and refine issue 3. Communication with utilities Center for Resource Solutions to get biomass certified	of federal energy tax credit and other opportunities (O) 4. Examine transmission pricing & policy issues(O)	and size of stewardship contracts.	

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Extraction and	1. Costs!	1. Prove that this works- tie into pilot	Identify extract	Education about	Gain more specific	
Production	2. Workforce Training	projects and showcase them	equipment existing	product	information on	
Infrastructure		2. Everyone gets paid	and new	opportunities	accessibility, location,	
Development	4. Rare skill set: monitoring capacity	Transport incentives	(OFRI/study)	2. Understand the	amount and type of	
	5. Education and outreach of current technology	4. Synergy between end users	2. Demonstration	economics of	supply to direct	
	and experiences	5. Go beyond 1–1 economic argument—	projects showing	biomass utilization.	investment in	
*Loren Kellog,	Road access and conditions	look at social, economic and	benefits to operations	(Case study?)	infrastructure	
Rick Wagner, and	7. Transport costs	environmental impacts	that follow biomass.	3. End user		
Jim Giesinger	8. Sorting and handling integration for multiple	6. Improve economies to provide family		connectivity—		
	markets—who pays for extra moves	wage jobs		discussions to		
	9. Identify production efficiencies that can be			identify synergy		
	applied in the field					
	10. Contract constraints, e.g. timeframes flexible					
*Convener	to meet fuel moisture content goals.					
	11. Freight costs (driven by rising fuel costs)					
	12. Lack of knowledge about production					
	capabilities in various conditions					
	13. Capacity of local contractors to get contracts					

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Research and Development *Linc Cannon, Scott Levengood, DougHeiken, Jamie Barbour, and Loren Kellogg *Convener	1. 2. 3. 4. 5. 6. 7.	Conversion technology especially biofuels Cost of transportation Large scale biomass removal/ecologic effects Matching resources extracted to marketable products Small wood handling Funding for research Quantify costs & benefits of economic values – reduced fire threat, cleaner air, less carbon, opportunity for reduced fire costs	1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Woody biomass vs. other cellulose for bio-fuels Proposed PNW ecological study BEF and Mater study Spring 2006 Study on efficient energy use—i.e., heat vs. electric Interface ID needs with Western Governor's Biomass Report Federal energy bill and appropriation OFRI study 6-06 Consortium of western states to research biomass Interface with energy companies and their R & D Gain information and determine ways to share costs related to barrier 7 Transfer technology development to	 2. 3. 4. 	PNW/ biomass and ecosystem research study initiated (Winter 2006–end 2007) Invite energy companies to participate in BWG (Spring 2006) Invite Potlatch to describe their ethanol research program (Spring 2006) Mater & Bonneville Environmental Foundation (BEF) study results	1. OFRI study— conference (November 2006)	1.	Interface with Western Governor's task force and initiatives in other states (Spring 2007)	
			11.	users & communities		study results				ļ

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Supportive Regulatory Environment *Greg Corbin, Lisa Schwartz, Brian Finneran, Mike Ziolko, and Mark Kendall *Convener	 Public acceptance of NEPA process regarding thinning projects Interrelationship of regulations is not well known and/or not conducive to timeliness Public opposition and distrust of the regulatory process Implementation of regulation may be variably applied or inexpedient Lack of detailed knowledge about regulatory environment 	 Strong local communities, legislative and executive support Recognize and internalize the resource values (e.g. carbon, burning) Develop public education on forest practice regulation that affects stakeholder interests Streamlined, exciting and fun regulatory process for developers with happy regulators Connect ODE's model ordinance for developing energy projects to assured supply and contracting issues-seamless 	Identify laundry list of regulations Forestry Energy facility siting Utility negotiations and contracting	Develop matrix of regulations considering project scale, regulation inter-relationships, sequence, agency	1. Evaluate the list for benefit and obstacle 2. Comparison of Oregon regulations to best practice 3. Differentiate regulatory requirement depending on project scale—matrix 4. Map(s) for navigating the regulatory matrix 5. Congressional delegation involvement in crafting regulatory changes	Suggestions for regulatory change Improve regulatory environment