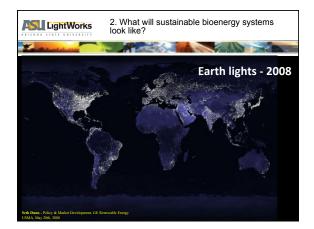
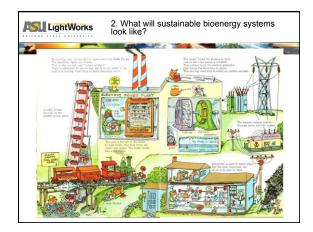


1. What is the problem that bioenergy confronts?						
* And						
 How much stored fuel energy will we need? For what purposes? How much of this must be carbon-neutral? 						
 What alternative technologies will arise to challenge the role of biofuel: carbon sequestration, direct photochemical conversion, hydrogen fuel cells? 						
 How fast will we need to develop large-scale bioenergy systems? 						
Can bioenergy systems compete?						







2. What will sustainable bioenergy systems look like?								
Tom.	and a local division of the	- AP	1		Sale)			
Complex Socio-Energy-Environment Systems Energy (and especially fuel) systems are the								
GMC)s	Spills	Air Deed		single largest human enterprise on the planet.			
Soils	Run-off	Explosions	Transpor	l, and Wate tation				
Wat Land	er Food	Refineries Pip	elines		iicle ines	Highways		
	riculture	Chemical Processing	Dis	tribution		Consumption		
Farmers		•						
La	ibor	Gas Scale of	Stations	Si	uburbs	Highway Repair		
Law	Activists	Operations	Rig	hts	Behavio	rs		
Law	Regulation	Supply Cha	ains	Forms of Li	ving	0 or the 12 lorgest		
Energy is at the heart of modern industrial political economies		Markets		and Livelihood		9 or the 12 largest companies in the		
		Values				world are in energy and the 10 th is cars		

