2/09/2016

Energy Generation, Purchasing & Distribution SWATeam

* State places limitations on Wind + Solar PPA’s
	+ Length often capped at 10 years
		- Is this in the best interest of the University?
			* Stanford entered into 30 year solar PPA
			* Could our cap be extended?
		- How would the cap be extended, if possible?
			* University would have to be on board
			* If state law, need lobbying support
* Current wind PPA
	+ Wind sometimes come at unideal times
		- Example: Night time when we already produce enough power
	+ Abbott has two types of steam turbines
		- Back Pressure
			* Always generates steam & power together
			* More efficient generating process
		- Extraction (condensing)
			* Has condenser
				+ Causes some loss in efficiency
				+ But allows it to generate electricity only, if needed
			* Very useful on peak days
				+ Prices can reach $4,000 per MWhr
				+ Saves the university a lot of money as we can generate at a much lower cost
	+ On campus power generation determined by current market
		- If we can sell electricity for a profit, we do
		- Wind PPA wouldn’t have much operational affect