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