POTENTIAL TE PROJECT WORKSHEET

Consultant

Title:	Brief Description:		Challenges:	
Business/Regulatory Models	 Define fundamental business/regulatory model types Characterize/define interfaces among the participants (physical/financial) Identify legislative regulator features applicable to each model 		 Untested/untried Power generation/distribution is an existing marker Regulatory/legislative resistance Balkanized markets Resistance by potential losers Consumer resistance Disruptive technological change/business models 	
PROJECT APPROACH				
Major Tasks: 1) Survey/summarize existing initiatives 2) Look at current / past experience 3) Explore additional models 4) Identify legislation/regulatory features for each model 5) Characterize/define interfaces 6) Describe/formulate application of transactive energy system to models	Major Milestones with Dates: 1) A draft of models (December 3) 2) A draft of TE approach interfaces, business models (March) 3) Recommended demonstration projects		Performance Targets: 1) Economic feasibility. Positive payback for participants 2) Achieve vital clean energy/reliability goals at lower cost than alternatives Limits: What parameters should be used to define the realistic limits to use of the system/platform • None identified	
PROJECT IMPACTS and DEMONSTRATION				
Impacts: Positive economic impact Reduced GHG emissions Increased innovation Improved reliability/resilience Increased national energy security, diversification Increased cybersecurity challenges Increased system complexity problems Emergence of new markets Safety	Demonstration Vehicle: One model through entire process Status of Commitment: Please advise on the current status of the CPS idea detailed on this worksheet (underline/circle one): Launched Ready for Public Announcement In Deliberations / Negotiations Concept only Stage / No partners yet	Team Lead: EEI (tentative) Participants and Roles: Microgrids Distribution Storage (Professional, consumer[pro-consumer]) Energy producer (control station, distributed) Aggregator/broker/intermediary Billing/settlement Market operator, balancing operator Passive Consumer, active consumer Telecom/metering/sensor (RD, DR) Regulators/ Legislators		Worksheet Authors: John Caldwell, EEI Jeff Price, Bluewave Resources Robert Stewart, Pepco Holdings Scott Andersen, CGI Randy Wedin, Wedin Communications Ronald Melton, PNNL Arnand Kandaswamy, NIS Ed Cazalet, TeMix, Inc. Robert Hershey,

• Distributed energy supply chain

• Transmission on operator