Transactive Energy Challenge Kickoff Meeting

September 10-11, 2015 National Institute of Standards and Technology Gaithersburg, MD Campus

POTENTIAL TE PROJECT WORKSHEET

| PROJECT DEVELOPMENT AREA for TRANSACT Title: Business/Regulatory Models | Brief Description: Write 2-3 sentences/bullets to describe the project development area and the necessary partnerships 1) Define fundamental business/regulatory model types 2) Characterize/define interfaces among the participants (physical/financial) 3) Identify legislative regulator features applicable to each model | Challenges: Identify the anticipated challenges for creating a workable demonstration or testbed for the concept 1) Untested/untried 2) Power generation/distribution is an existing marker 3) Regulatory/legislative resistance 4) Balkanized markets 5) Resistance by potential losers 6) Consumer resistance | |
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| PROJECT APPROACH Major Tasks: Describe a possible approach to developing the project, including 3-5 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 minimization of transactive energy system to models | Major Milestones with Dates: Define 3-5 milestones that can be used to measure progress. 1) A draft of models (December 3) 2) A draft of TE approach interfaces, business models (March) 3) Recommended demonstration projects | 7) Disruptive technological change/business models Performance Targets: Identify 1-5 (quantitative) performance targets that define a successful outcome. 1) Economic feasibility. Positive pay/?? 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: Describe the anticipated economic benefits (new products, jobs, economic growth, exports, tax base, etc.) as well as impacts on energy, health, safety, environment, and other quality of life aspects • 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: Describe how you might demonstrate the project concept (physical or virtual) 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: Non identified Participants and Roles: Microgrids Distribution Storage (Professional, consumer[pro-consumer]) Energy producer (control station, distributed) Aggregator/broker/intermediary Billing/settlement Market operator Balancing Operator Participants and Roles: Passive Consumer Recunsumer Pactive consumer Pac | / |