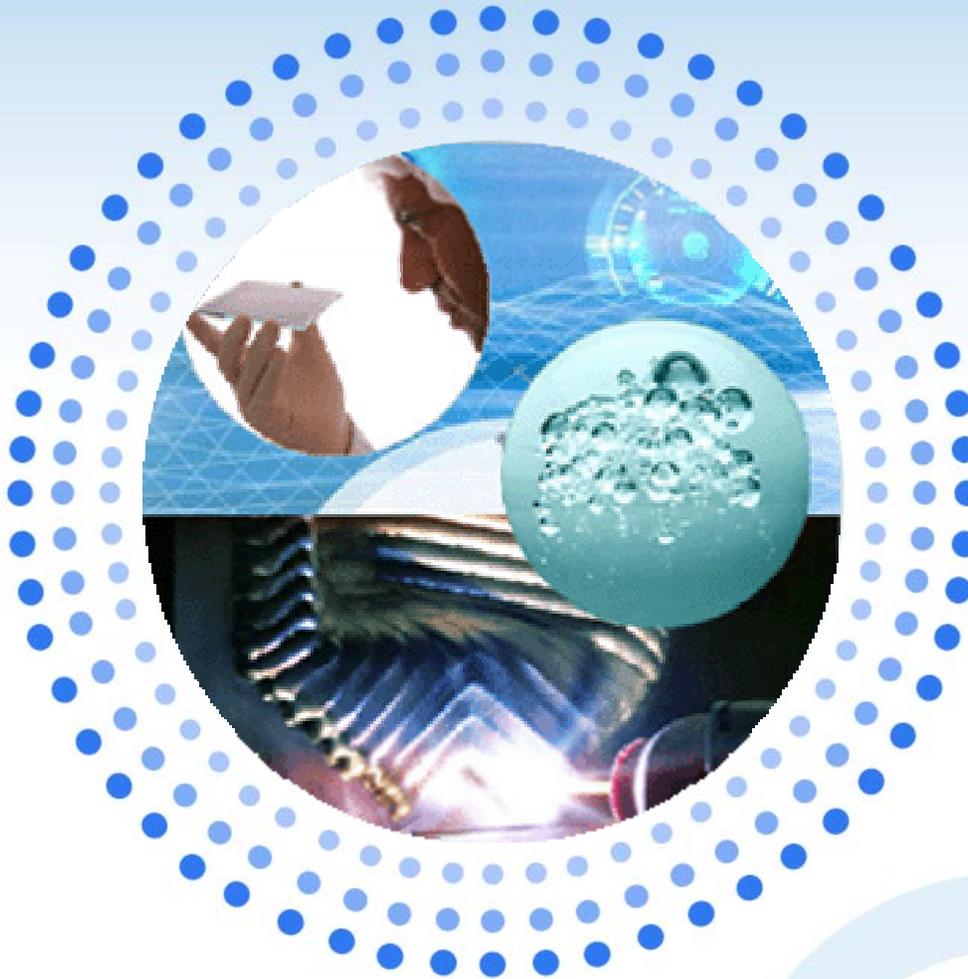


CEC Smart Grid Workshop

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What Key Smart Grid Areas California Must Address First?

- ⦿ What can policy makers do to encourage research investments in Smart Grid technologies?
- ⦿ Are California's policies driving the California Grid away from the National Grid?
- ⦿ Are California energy policies too aggressive?
- ⦿ How do we avoid repeating the problems experienced during deregulation?
- ⦿ What do you need from policy makers to make the Smart Grid a reality?





What can policy makers do to encourage research investments in Smart Grid technologies?

- ⊙ Incentives usually are much appreciated and have some efficiency
- ⊙ Create conditions to put at work all the brain power available in the Universities across the State through contests (can be more creative than RFP). Which will trigger innovations





Are California's policies driving the California Grid away from the National Grid?

- ◎ California has been leading the way (EE, AMI, DR)
- ◎ But there is huge number of fragmented initiatives that makes it difficult to see the direction (and do justice to the very heavy lifting)
- ◎ Up to now, it seems there are no inconsistency in principle, but the size/numbers at stake in California might need extra caution



Are California energy policies too aggressive?

- ⦿ Too much and may be not enough !
- ⦿ Electricity is the cleaner and most efficient energy vector. Then apply the first priority of the loading order and encourage the fossil energy usages to switch to electricity
- ⦿ Sometimes immersing a problem difficult to solve into a wider problem, allows to access new solutions
- ⦿ Demand at a much larger scale can shift paradigm and make much more compelling value proposition for bold smart grid solutions, and a proper balance between centralized and decentralized.





How do we avoid repeating the problems experienced during deregulation?

- ⊙ Decentralization allows to work around limitations of centralized.
- ⊙ But there is threshold where decentralized starts to bring new or more problems !
 - Security (physical, cyber, ...)
 - Reliability
- ⊙ It is actually **Dependability** that matters !
- ⊙ Deregulation is giving freedom to players with the aim of benefiting to everyone. But a game cannot create its own rules !
- ⊙ Extensive modeling and simulation should ensure design of proper “games”



What do you need from policy makers to make the Smart Grid a reality?

- ⊙ Analyze why the “simple” AMI and PCT are not yet fully deployed (target -5% peak 2007), and understand keys for success
- ⊙ Smart Grid is a concept, and in concrete it can be what you want it to be.
- ⊙ To remove regulatory uncertainty: massive and simple communication on 1,2 or 3 directions (likewise the “loading order”) can help to dramatically focus the efforts.
- ⊙ California is probably the Smart Grid State but needs the “theme park” that will demonstrate it !





QUESTIONS?

