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DER Research Roadmap

1. Do the research priorities identified in the Draft Final DER Research Roadmap Report accurately reflect the needs of California?
Yes, the pursuit for distributed energy resources and a more sustainable electrical grid will help fulfill Californiaâ€™s energy and climate goals. Developing new load-modifying technologies can create new sources for electricity generation, storage and commercialization. In consideration of the abundant renewable energy resources in California and the embracement of high-tech products, this project is quite appropriate for our state. Meanwhile, utilizing and organizing electricity distribution are also very important for making grid utilization more efficient, in view of the huge population and electricity requirements in California.

2. What improvements do you suggest to the Draft Final DER Research Roadmap Report?
Although the report discusses chemical batteries and vehicle grid integration, alternative energy resources and technologies are not considered. Organic photovoltaics (OPVs) is a sustainable photovoltaic technology which can transform solar energy into electricity. OPVs have many advantages, such as low-cost fabrication, light weight, flexibility and transparency. Integration of OPVs into buildings, vehicles, greenhouse and self-powered devices have been reported in research literatures and preliminarily commercialized by companies. Therefore, adding OPVs into the report may provide another new strategy to generate and distribute the electricity in California.