



# 2013 Bioenergy Staff IEPR Workshop

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California Energy Commission  
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## Purpose of Workshop

- *2013 Progress to Plan for Bioenergy*
  - Staff will provide an update assessing California's progress toward meeting the objectives identified in the 2012 Bioenergy Action Plan.
- *2013 Integrated Energy Policy Report (IEPR)*
  - The 2013 IEPR will discuss challenges and opportunities for bioenergy for electricity generation and transportation fuel.
- *Solicit Stakeholder and Public Comment*
  - Identify challenges and opportunities for development of bioenergy projects in California.
  - Recommend potential solutions or additional actions needed to address challenges.
  - Other comments?



# Agenda

- Welcome
- Session I: Biomass to Biofuel Challenges and Opportunities
- Comments and Questions
- Lunch
- Session II: Biomass to Power Challenges and Opportunities
- Comments and Questions
- Break
- Session III: Bioenergy Benefits and Environmental Considerations
- Comments and Questions
- Adjourn



## 2012 Bioenergy Action Plan Objectives

1. Codify legislation and issue formal executive direction regarding increased biomass use through in-state bioenergy and biofuel development.
2. Facilitate growth of CA's bioenergy industry by making the regulatory and permitting process more efficient for project developers and permitting officials by eliminating redundant and conflicting regulatory actions and requirements, and providing permit guidance and assistance to developers and government officials.
3. Develop front-end processing standards to ensure that recyclables are removed prior to bioenergy production. These standards must incorporate safeguards to protect existing recycling systems and markets and allow for growth of those systems, including enforcement to ensure recovery of recyclables.



## 2012 Bioenergy Action Plan Objectives

4. Allocate a significant portion of the EPIC to fund RD&D of new and emerging technologies that:
  - a. Produce biomethane or biogas from biomass residues.
  - b. Upgrade biogas to biomethane (meeting utility gas quality standards.)
5. Increase development of community-scale, forest-based biomass facilities.
  - a. Produce energy from dairy, food processing, urban derived and other agricultural wastes.
  - b. Produce energy from urban organic waste or waste from water treatment facilities.
  - c. Quantify the benefits and cost of biomass use.
  - d. Increase the feasibility of collecting and transporting biomass or biogas resources.
6. Allocate funding for RD&D of advanced conversion technologies needed by 2018 to comply with the LCFS.



Meeting materials can be downloaded at:

[http://www.energy.ca.gov/2013\\_energypolicy/documents/](http://www.energy.ca.gov/2013_energypolicy/documents/)



## Policy Drivers

- 33% Renewables Portfolio Standard
  - Biopower resources as deemed eligible for the RPS under the restrictions in the Seventh Edition Renewables Portfolio Standard Guidebook.
- Senate Bill 1122, Rubio
  - IOUs shall collectively procure at least 250 megawatts of cumulative rated generating capacity from developers of bioenergy projects that commence operation on or after June 1, 2013.
- LCFS
  - The Low Carbon Fuel Standard calls for a reduction of at least 10 percent in the carbon intensity of California's transportation fuels by 2020.



## Policy Drivers

- Climate Change and Adaptation
  - Bioenergy can help the state achieve greenhouse gas emission reductions required by AB32.
  - Bioenergy can play a role in a number of climate adaptation strategies.
- CalRecycle
  - AB 341 goal of 75% waste reduction by 2020 will require new anaerobic digester and composting facilities.



## Written Comments

- Written comments are due 5:00 p.m. on **June 17, 2013**.
- Please include the docket number **13-IEP-1M** and “*Status of Bioenergy Development in California*” in the subject line of your comments.
- Submit electronic comments to:  
**docket@energy.ca.gov** and copy the technical lead staff at **Garry.Oneill@energy.ca.gov** .