



## **AIR ISSUES & REGULATIONS COMMITTEE**

**A Committee of the Bay Area Clean Water Agencies**

### Committee Meeting

November 12, 2014

10:00 am – 1:00 pm

# Introductions & Opening

# Agenda

- Introductions and Opening
- Regulatory Updates
  - I. State Regulatory News
- Technical Resources
- Grant Opportunities
- CASA Energy Workgroup Updates
- AIR Business Items
- Closing



# State Regulatory News

## State Regulatory News

# GHG Mandatory Reporting Regulation Amendments

# GHG Mandatory Reporting Regulation Amendments

- December 18<sup>th</sup> hearing to discuss amendments to 3 regulations:
  - Regulation for the Mandatory Reporting of GHG Emissions
  - California Cap on GHG Emissions and Market-Based Compliance Mechanisms
  - Cost of Implementation Fee Regulation
- Amendments anticipated to become effective on January 1, 2015
- Proposed amendments potentially applicable to POTWs:
  - Clarify reporting applicability for biofuel production facilities that produce and deliver transportation fuels outside the bulk terminal/transfer system
  - Clarify that biofuel production facilities must report biofuel delivered outside the bulk transfer/terminal system
  - Added renewable diesel as a reportable biomass-derived transportation fuel
- Additional information is available at:

<http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-rep.htm>



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**State Regulatory News**

**Alternative Diesel Fuels  
Regulation**

# Alternative Diesel Fuels Regulation

- Alternative Diesel Fuels Regulation:
  - Provide a pathway for alternative diesel fuels to enter the California market
  - Develop a uniform framework for standards, specifications, procedures, and other requirements applicable to various current and developmental alternative diesel fuels
- Biodiesel is considered the first alternative diesel fuel
- Proposed draft regulatory language will be available soon
- Public workshop is scheduled for November 21<sup>st</sup>
- Comments are due December 1<sup>st</sup>
- Additional information is available at:  
<http://www.arb.ca.gov/fuels/diesel/altdiesel/biodiesel.htm>



## State Regulatory News

# Compost and Anaerobic Digestion Regulations

# Compost and Anaerobic Digestion Regulations

- Proposed amendments relevant to POTWs:
  - Clarify several compostable material feedstock definitions
  - Clarify the types of facilities that can accept these feedstocks
  - Establish criteria for land application of compostable materials
  - Clarify the inspection frequency of biosolids composting at POTWs
  - Exclude POTWs accepting hauled-in organic waste for co-digestion from the transfer operations requirements
- Regulatory schedule:
  - Comments are due December 5<sup>th</sup>
  - CalRecycle will hold a public hearing on December 10<sup>th</sup>
- CASA Energy Workgroup is following this item closely
- Additional information is available at:

<http://www.calrecycle.ca.gov/laws/rulemaking/Compost/default.htm>



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## State Regulatory News

# Senate Bill 605: Short-Lived Climate Pollutants

# Senate Bill 605: Short-Lived Climate Pollutants

- Signed by Governor Brown on September 21, 2014
- May be relevant to POTWs emitting methane (CH<sub>4</sub>)
- Requires CARB to:
  - Develop a strategy to reduce emissions of short-lived climate pollutants by January 1, 2016, which includes the following activities:
    - Complete an inventory of sources of short-lived climate pollutant emissions
    - Identify research needs to address data gaps
    - Identify existing and potential new control measures to reduce emissions
    - Prioritize the development of new measures for short-lived climate pollutants that offer co-benefits by improving water quality or reducing other air pollutants
  - Efforts are likely to focus on disposal of organic materials at landfills
- CWCCG is following this item closely
- Additional information is available at:  
<http://www.legtrack.com/bill.html?bill=201320140SB605>



# Additional Items

**Additional Items**

**Technical Resources**

# CARB Diesel Vehicle and Equipment Training Courses

Course	Date	Location
#504: In-Use Off-Road Diesel Vehicle Regulation	Nov. 20	Sacramento
#505: Large Spark-Ignition Fleet Regulation	Nov. 20	Sacramento
#521: How to Comply with the Truck and Bus Regulation	Nov. 13	Webinar or San Leandro
	Dec. 11	Modesto

Additional course information is available at:  
<https://ssl.arb.ca.gov/training/courselist.php>



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# USEPA Waste and Climate Webinars

- November 13<sup>th</sup>: The Changing Waste Stream
  - Discuss implications of the changing waste stream on materials recovery programs
  - Register at: <https://www2.gotomeeting.com/register/598480554>
- November 18<sup>th</sup>: Measuring Up: How to Track and Evaluate Local Sustainability Projects
  - Present federal resources designed to measure, track, and report sustainable project performance
  - Register at: <https://attendee.gotowebinar.com/register/4055459940572487426>
- November 18<sup>th</sup>: Managing Wasted Food with Anaerobic Digestion: Incentives and Innovations
  - Discuss federal and state initiatives supporting the anaerobic digestion of wasted food, including the Renewable Fuels Standard
  - Register at: <https://www2.gotomeeting.com/register/357440082>



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# USEPA ENERGY STAR® Webinars

- November 18<sup>th</sup>: Benchmarking Water/Wastewater Treatment Facilities in Portfolio Manager
  - Track energy use and CO<sub>2</sub> emission reductions to establish baseline energy use, prioritize investments, set goals, and track improvements
- November 25<sup>th</sup>: Portfolio Manager 101
  - Introduce the core functionality of the ENERGY STAR Portfolio Manager tool
- December 3<sup>rd</sup>: Portfolio Manager 201
  - Dive deeper into more advanced tool functions
- Registration information is available at:  
<http://www.energystar.gov/buildings/training>



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# TCR Energy Efficiency Registry

- An Energy Efficiency Registry: a Flexible and Transparent way to Track and Report Energy Efficiency under the Clean Power Plan:
  - Proposes a framework for tracking, managing, and reporting impacts of energy efficiency
  - USEPA identifies these tools as one of the possible methods that states can use to achieve GHG reduction targets under the Clean Power Plan
- Flexible, nation-wide energy efficiency registry would:
  - Enable and expand programs that could be used for compliance by increasing transparency and using a consistent method to track and report energy savings
  - Analyze the impacts of existing energy efficiency programs
  - Identify new opportunities for energy savings
  - Reduce risks that limit available project financing of energy efficiency projects
  - Serve as the foundation for an energy efficiency crediting platform
- Comments are due December 1<sup>st</sup>
- Paper is available at:  
[http://www.theclimateregistry.org/downloads/2014/09/TCR\\_AQ-EE-Registry.pdf](http://www.theclimateregistry.org/downloads/2014/09/TCR_AQ-EE-Registry.pdf)



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# 4<sup>th</sup> Annual Waste Conversion Congress

- Sponsored by Renewable Waste Intelligence
- Topics for discussion include:
  - Waste conversion on the west coast
  - Anaerobic digestion on the west coast
  - Thermal technologies for sustainable waste management
  - Pyrolysis Technology
  - Creating biofuels and biogas from waste
  - Project financing
  - Renewable energy potential at POTWs
  - Regulatory framework
- Scheduled for December 3<sup>rd</sup> and 4<sup>th</sup> in San Diego
- Register at: <http://www.renewable-waste.com/waste-conversion-west/>



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**Additional Items**

**Grant Opportunities**

# Electric Program Investment Charge (EPIC) Program Funding: PON-14-307

- PON-14-307: Demonstrating Clean Energy Solutions that Support California's Industries, the Environment, and the Electrical Grid:
  - \$21 million in available funding
  - \$3 million maximum funding amount per project
  - 20% matching funds requirement
  - Eligible distributed generation and grid integration projects must use:
    - Community scale generators, including combined heat and power and renewable generation technologies that are in the pre-commercial stage
    - Innovative energy management strategies to facilitate the integration of intermittent renewable energy and the reduction of peak power and energy demands
- Pre-application workshop is scheduled for November 21<sup>st</sup>
- Applications are due January 6, 2015
- Additional information is available at:

<http://www.energy.ca.gov/contracts/epic.html#PON-14-307>



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# EPIC Program Funding: PON-14-602

- PON-14-602: Biofuels Early & Pre-Commercial Technology Development:
  - \$3 million in available funding, issued under the ARFVTP
  - Eligible biofuel projects include those that:
    - Focus on increasing yields, productivity, or cost-effectiveness in biofuel production
    - Produce biofuels and/or projects that produce and/or use biomass feedstocks for the eventual production of biofuels
- Eligible biofuels include:
  - Diesel substitutes (renewable diesel, biodiesel, etc.)
  - Gasoline substitutes (ethanol, biobutanol, etc.)
  - Biomethane (primarily from pre-landfill or landfill waste-based biomass sources)
- Pre-application workshop is scheduled for November 14<sup>th</sup>
- Proposals are due December 17<sup>th</sup>
- Applications are due March 26, 2015
- Additional information is available at:  
<http://www.energy.ca.gov/contracts/PON-14-602/>



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# EPIC Program Funding: PON-14-603

- PON-14-603: Zero Emission Vehicle (ZEV) Readiness:
  - \$3.3 million in available funding, issued under the ARFVTP
  - Funds new and existing planning efforts for plug-in electric vehicles (PEV) and fuel cell electric vehicles (FCEV) infrastructure
- Result of California's ZEV Action Plan Goals:
  - By 2015: Metropolitan areas will support ZEVs through infrastructure plans and streamlined permitting
  - By 2020: State will support 1 million ZEVs through infrastructure plans accessible to mainstream consumers
  - By 2025: Over 1.5 million ZEVs and associated infrastructure will be easily accessible to mainstream consumers
- Grants are being awarded on a first come, first serve basis
- Applications are due no later than December 2<sup>nd</sup>
- Additional information is available at:  
<http://www.energy.ca.gov/contracts/PON-14-603/>



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# GHG Reduction Organics Loan Program

- CalRecycle is providing loans to projects that:
  - Reduce GHG emissions from the handling or landfilling of California-generated green and food materials
  - Expand the existing capacity or establish new facilities to process California-generated green and food materials into new value-added products
- \$4.7 million in funding is available for Fiscal Year (FY) 2014/2015:
  - \$2 million maximum loan amount
  - 25% matching funds requirement
- Primary applications are due December 1<sup>st</sup>
- Secondary applications are due February 6, 2015
- Loans will be awarded in April 2015
- CWCCG is following this item closely
- Additional information is available at:  
<http://www.calrecycle.ca.gov/Climate/GrantsLoans/OrganicsLoan/FY201415/default.htm>



# Department of Water Resources (DWR) Water-Energy Grant

- Water-Energy Grant Program:
  - Supports implementation of water, wastewater, and recycled water efficiency projects
  - Projects should reduce GHG emissions or water and energy consumption
- \$19 million in available funding:
  - \$2.5 million maximum award per proposal
  - \$5 million maximum award per applicant
  - No minimum cost-share contribution
- Proposals are due December 12<sup>th</sup>
- Grants will be awarded in March 2015
- CWCCG is following this item closely
- Additional information is available at:  
<http://www.water.ca.gov/waterenergygrant/>



# WaterSMART Grants

- Water and Energy Efficiency Grants:
  - \$19 million in funding for FY 2015, with \$500,000 available per applicant per year
  - Sponsors projects which conserve and use water more efficiently, increase the use of renewable energy, improve energy efficiency, benefit endangered and threatened species, facilitate water markets, carry out activities to address climate-related impacts on water, or prevent any water-related crisis or conflict
  - Applications are due January 14, 2015
  - Additional information is available at:  
<http://www.usbr.gov/newsroom/newsrelease/detail.cfm?RecordID=48072>
- Title XVI Water Reclamation and Reuse Program:
  - \$20 million in funding for FY 2015
  - Sponsors projects which investigate opportunities to reclaim and reuse wastewater and naturally impaired ground and surface water
  - Applications are due December 15<sup>th</sup>
  - Additional information is available at:  
<http://www.usbr.gov/WaterSMART/title/>



# State Water Board's Clean Water State Revolving Fund (CWSRF) Program

- CWSRF Program:
  - Accepts applications on a continuous basis
  - Offers low interest financing for water quality projects
  - Disburses \$200 - \$300 million annually
  - Any public body created under State law is eligible for funding
- CWSRF is currently focused on recycled water projects:
  - Create new water supplies as part of drought response
  - Recently approved \$800 million in 1% loans for eligible projects
  - Funding is **still** available, but eligible projects must:
    - Apply for funding by December 2, 2015
    - Be completed by January 17, 2017
  - Program still offers 30-year extended term financing options
- Additional information is available at:

[http://www.waterboards.ca.gov/water\\_issues/programs/grants\\_loans/srf/](http://www.waterboards.ca.gov/water_issues/programs/grants_loans/srf/)



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# Free Energy Audits

- California Energy Commission's (CEC) Energy Partnership Program:
  - Provides up to \$20,000 of technical support to identify energy projects and their technical and economic viability
  - Available to both water and wastewater utilities
- Applications accepted on a first-come, first-serve basis
- Questions: Shahid Chaudhry at (916) 654-4858 or [Shahid.Chaudhry@energy.ca.gov](mailto:Shahid.Chaudhry@energy.ca.gov)
- Additional information is available at: <http://www.energy.ca.gov/efficiency/partnership/>



# Clean Vehicle Rebate Project (CVRP)

- CVRP Program:
  - Accelerates the number of ultra-clean vehicles sold in California
  - Helps establish a sustainable market
- CVRP offers rebate funding for zero-emission and plug-in hybrid electric vehicles:
  - \$110 million allocated for FY 2014/2015 funding
  - 75% of funding still available
  - Accepting applications on a first-come, first-serve basis
- Rebates offered for purchase or lease:
  - \$5,000 per hydrogen fuel cell vehicle
  - \$2,500 per battery electric vehicle
  - \$1,500 per plug-in hybrid electric vehicle
- Additional information is available at: <http://energycenter.org/clean-vehicle-rebate-project>



# Carl Moyer Memorial Air Quality Standards Attainment Program

- BAAQMD's Carl Moyer Program:
  - Strives to reduce air emissions from local heavy/medium-duty engines
  - Accepting applications on a first-come, first-serve basis
- Grants:
  - Cannot be used for projects currently required by law
  - Are available for projects that:
    - Install verified emission control devices
    - Replace older heavy-duty engines with newer and cleaner engines
    - Replace older equipment with newer and cleaner equipment
    - Purchase new equipment that is cleaner than the law requires
    - Install electric idling-reduction equipment
- Applications **still** being accepted
- Additional information is available at:  
[http://www.baaqmd.gov/Divisions/Strategic-Incentives/Funding\\_Sources/Carl-Moyer-Program.aspx](http://www.baaqmd.gov/Divisions/Strategic-Incentives/Funding_Sources/Carl-Moyer-Program.aspx)



**Additional Items**

# **CASA Energy Workgroup Updates**

# CASA Energy Workgroup Updates

- Cap-and-Trade Funding for Bioenergy Projects:
  - Letter requesting funding from Cap-and-Trade auction proceeds was submitted November 6<sup>th</sup>
- Role of WWTP biogas in achieving State goals (i.e., GHG reductions):
  - Identify agencies that recognize the resources offered by WWTPs
  - Enable WWTPs to pick out language that characterizes the value of biogas/resource recovery to use effectively in agency communications
- Renewable Portfolio Standard (RPS) Program:
  - Encourage discussion to make POTW projects eligible for Bucket 1 vs. Bucket 3 Renewable Energy Certificates (RECs)
- Biogas Interagency Committee:
  - Research integrated management opportunities through WWTPs
  - Identify how these opportunities fit with agency resource management objectives
- CPUC's Statewide Energy Efficiency Strategic Plan:
  - Continue tracking proceedings that would influence ability to use and recover the value of biogas and organic products



**Additional Items**

**AIR Business Items**

# BACWA AIR Business Items

- Total budget for FY 2014/2015: \$77,064
  - Spent: \$28,910 (through Friday, November 7<sup>th</sup>)
  - 38% of budget
- Meeting schedule:
  - Switching AIR Meetings to the 2<sup>nd</sup> Wednesday of every other month
  - Better accommodates the BACWA Board Meeting schedule
- Tentative 2015 meeting dates:
  - January 14
  - March 11
  - May 13
- Annual newsletter is available at:  
<http://bacwa.org/Portals/0/Committees/AirIssuesRegulations/Library/BACWA%20AIR%202014%20Newsletter%20Final.pdf>



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# Closing

Next Meeting: Wednesday, January 14, 2014

*Meeting will be held at CH2M HILL's Oakland Office*

# Additional Slides

# USEPA Water and Climate Reports

- USEPA's Climate Change Adaptation Plan:
  - Presents 10 priority actions that USEPA will take to ensure that its programs, policies, rules, and operations will remain effective under future climatic conditions
  - Comments provided by the American Water Works Association were not incorporated
  - Available at: <http://epa.gov/climatechange/Downloads/EPA-climate-change-adaptation-plan.pdf>
- Office of Water's Climate Change Implementation Plan:
  - Identifies specific priority actions that the Office of Water will take to begin addressing its vulnerabilities and mainstreaming climate change adaptation into its activities
  - Comments provided by CWCCG were incorporated
  - Available at: <http://epa.gov/climatechange/Downloads/OW-climate-change-adaptation-plan.pdf>
- Flood Resilience: A Basic Guide for Water and Wastewater Utilities:
  - Outlines a simple assessment process for small and medium utilities to know their flooding threat and identify practical mitigation options
  - Available at: <http://water.epa.gov/infrastructure/watersecurity/emergencyplan/upload/epa817b14006.pdf>



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# USEPA Water and Climate Reports (Continued)

- Being Prepared for Climate Change: A Workbook for Developing Risk-Based Adaptation Plans:
  - Provides guidance for conducting risk-based climate change vulnerability assessments and for developing adaptation action plans
  - Available at: [http://acwi.gov/climate\\_wkg/minutes/acwi-2014-01-09\\_%20workbk.pdf](http://acwi.gov/climate_wkg/minutes/acwi-2014-01-09_%20workbk.pdf)
- The Green Infrastructure Guide for Water Management: Ecosystem-Based Management Approaches for Water-Related Infrastructure Projects:
  - Presents viable and cost-effective alternatives to grey water infrastructure
  - Available at: [http://www.unepdhi.org/-/media/microsite\\_unepdhi/publications/documents/unep/web-unep-dhigroup-green-infrastructure-guide-en-20140814.pdf](http://www.unepdhi.org/-/media/microsite_unepdhi/publications/documents/unep/web-unep-dhigroup-green-infrastructure-guide-en-20140814.pdf)
- Green Infrastructure Collaborative Statement of Support:
  - Provides a discussion platform for federal, private, and academic efforts to advance green infrastructure as a means of supporting water quality goals
  - Available at: [http://water.epa.gov/infrastructure/greeninfrastructure/upload/greeninfrastructure\\_collaborative2014.pdf](http://water.epa.gov/infrastructure/greeninfrastructure/upload/greeninfrastructure_collaborative2014.pdf)



# 2015-2016 Investment Plan Update for the ARFVTP

- Proposed allocations relevant to POTWs:
  - \$20 million for biofuel production and supply
  - \$18 million for electric charging infrastructure
- Annual investment plan:
  - Communicates the CEC's strategic vision
  - Determines the funding priorities and opportunities for the upcoming fiscal year
  - Provides an analytical rationale for proposed expenditure
- Comments are due November 21<sup>st</sup>
- Additional information is available at:  
<http://www.energy.ca.gov/2014-ALT-01/documents/>



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# Proposed 2016 Nonresidential Building Energy Efficiency Standards

- CEC updates the standards every 3 years
- Proposed 2016 amendments relevant to POTWs:
  - Require hourly 15- and 30-year forecasts of avoided energy cost
  - Increase metal and wood roof insulation criteria
  - Increase Fan Efficiency Grade
  - Upgrade elevator lighting and HVAC controls
  - Require indoor/outdoor lighting efficiency controls
- Regulatory schedule:
  - January 2015: Release 45-day language
  - April 2015: Release 15-day language
  - May 2015: Anticipated adoption
  - January 1, 2017: Effective date
- Additional information is available at:  
<http://www.energy.ca.gov/title24/>



# Truck & Bus Regulation

- Proposed amendments to the Regulation to Reduce Emissions of Diesel PM, NOx, and other Criteria Pollutants from In-Use On-Road Diesel-Fueled Vehicles:
  - Removes labeling requirements for vehicles using the Economic Hardship Extension
  - Clarifies that credit for adding hybrid vehicles (to replace heavier vehicles) counts towards meeting PM BACT
  - Extends compliance deadline for small fleet PM filter requirements to January 1, 2017
- Applies to POTWs with on-road, diesel-fueled vehicles with a GVWR > 14,000 pounds that do not meet the current BACT requirements
- CARB is currently reviewing public comments
- Additional information is available at:

<http://www.arb.ca.gov/regact/2014/truckbus14/truckbus14.htm>



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# Voucher Incentive Program: On-road Heavy-Duty Vehicles

- Voucher Incentive Program:
  - Provides funding to reduce on-road heavy-duty diesel truck emissions
  - Applies to owners and operators of fleets of < 3 vehicles
  - Applies to on-road trucks with a GVWR > 14,000 pounds
- Available funds:
  - Total of \$3 million available for the BAAQMD
  - Up to \$45,000 towards the purchase of a new vehicle
  - Up to \$10,000 for purchase and installation of a retrofit device
- Applications accepted on a first-come, first-serve basis
- BAAQMD-specific information is available at:  
<http://www.baaqmd.gov/Divisions/Strategic-Incentives/On-Road-Vehicles/Voucher-Incentive-Program.aspx>



# Hybrid & Zero-Emission Truck & Bus Voucher Incentive Project

- Voucher Incentive Project:
  - Provides vouchers to help California fleets purchase heavy- and medium-duty zero-emission trucks and buses
  - Fleets can order as many as 200 vouchers, with a limit of one voucher per vehicle
- Available funds:
  - Total of \$9.54 million available now
  - \$5.5 million in funding **still** available
  - Up to \$110,000 towards the purchase of a new truck or bus
  - Additional funding may come from cap-and-trade revenue
- Applications accepted on a first-come, first-serve basis
- Additional information is available at:  
<http://www.californiahvip.org/default.aspx>



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# Truck Loan Assistance Program

- Truck Loan Assistance Program:
  - Helps small business fleet owners finance truck upgrades required under CARB's In-Use Truck & Bus Regulation
  - Helps truck owners purchase cleaner trucks, exhaust retrofits, and truck efficiency upgrades
- Offers competitive-rate financing for fleets meeting the following criteria:
  - Company must be a small business (100 employees or less and less than \$10 million in annual revenue)
  - Fleet must operate in California a minimum of 51% of the total mileage
  - Fleet must be 10 or fewer heavy-duty trucks
- An additional \$10 million in funding is available from the 2014-2015 Investment Plan
- Additional information is available at:

[http://www.arb.ca.gov/msprog/truckstop/funding/loans\\_fa.htm](http://www.arb.ca.gov/msprog/truckstop/funding/loans_fa.htm)



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# Renewable Energy and Efficient Energy Projects Loan Guarantee

- Program intended to support the first commercial-scale deployments of the next wave of innovative clean energy technologies
- Drop-in Biofuels:
  - Focuses on biofuels that are more compatible with today's engines, delivery infrastructure, and refueling station equipment
  - Projects provide nearly identical bio-based substitutes for crude oil, gasoline, diesel fuel, and jet fuel or produce intermediate fuel feedstocks
- Waste-to-Energy:
  - Focuses on projects harnessing waste products, such as landfill CH<sub>4</sub> and segregated waste, as a source of energy
  - Projects will enable commercial-scale utilization of waste materials, which are otherwise discarded, and produce significant clean, renewable energy
- Part II Applications are due January 14, 2015
- Additional information is available at:  
<http://energy.gov/lpo/services/solicitations/renewable-energy-efficient-energy-projects-solicitation>



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