



California Energy Commission

# Biofuels Funding under ARFVTP

## Biofuels Production Workshop

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## Competitive Solicitations

- PON-09-003 -- Biomethane Production for Transportation
  - Notice of Proposed Awards -- January 28, 2011
- PON-09-604 -- Biofuels Plants
  - Notice of Proposed Awards -- April 13, 2011
- PON-11-601 -- Biofuels Production Facilities
  - Notice of Proposed Awards -- October 5, 2012



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BIOFUELS SOLICITATION PROPOSALS SUBMITTED							
Number of Proposals							
Solicitation ID	Submitted	Awards	Passing	Total	Fuel Type	Passing	
			Not Funded	Passing			Not Passing
PON-09-003	27	5	5	10	17	37%	
Biomethane						100%	
PON-09-604	44	14	9	23	21	52%	
Gasoline Subst	11	3	3	6	5	25%	
Diesel Subst	19	5	3	8	11	43%	
Biomethane	14	6	3	9	5	32%	
PON-11-601	61	14	27	41	20	67%	
Gasoline Subst	17	4	6	10	7	28%	
Diesel Subst	31	6	15	21	10	51%	
Biomethane	13	4	6	10	3	21%	
<b>Totals</b>	<b>132</b>	<b>33</b>	<b>41</b>	<b>74</b>	<b>58</b>	<b>56%</b>	



## Trends in Our Applicant Pool

- Increasing number of applications
- Increasing percentage of Passing proposals
- Increasing percent of Diesel substitute proposals



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BIOFUELS SOLICITATION AWARDS--BY FUEL TYPE AND COMMERCIAL STAGE								
Solicitation ID	Number of Awards	By Fuel Type	Funds Awarded	Projects			Fuel Type	
				By Development Stage				
			Totals	By Fuel Type	S1	S2	S3	
PON-09-003	5	5	\$26,000,000		1	2	2	Biomethane
PON-09-604	14		\$19,000,000					
		3		\$5,363,538	2	1	0	Gasoline Subst
		5		\$4,267,673	1	4	0	Diesel Subst
		6		\$9,368,789	1	4	1	Biomethane
					4	9	1	Totals
PON-11-601	14		\$46,423,263					
		4		\$16,772,187	1	3	0	Gasoline Subst
		6		\$15,061,083	0	1	5	Diesel Subst
		4		\$14,589,993	0	1	3	Biomethane
					1	5	8	Totals
<b>Totals</b>	<b>33</b>		<b>\$91,423,263</b>					



# Funding By Fuel Type

PON-11-601

- FY 2010-2011:
  - \$3.92 Million for Diesel Substitutes
  - \$4.49 Million for Gasoline Substitutes
  - \$5.28 Million for Biomethane
- FY 2011-2012: \$8.0 Million for each type
- FY 2012-2013: No rationing requirements in the relevant Investment Plan



## Scoring Criteria and Funding Priorities

- Technology Development
- Market Transformation
- Project Team and Implementation Plan
- Project Readiness
- Economic Impacts -- Local and State
- Budget Efficiency and Match Leverage
- Sustainability



# Sustainability

- Sustainability depends on:
  - Carbon Intensity (Green House Gas Reduction)
  - Resource use efficiency – energy, water, and land
  - Environmental impacts / mitigation / reclamation
    - Land
    - Air
    - Water



## Carbon Economy

- Carbon Intensity is essentially the “currency” in the transformation to Low Carbon Fuels
- Carbon Intensity determines a fuel’s eligibility for RFS2 and LCFS credits
- Credits provide the “market” for rewarding low carbon fuel production, by requiring high CI producers to pay a premium (through credits) for low carbon fuels or blending stock.



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