



California Biofuel Trends

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California Energy Commission Biofuel Objectives

- Accelerate Commercial Development of Advanced, Low Carbon Biofuels:
 - AB 118 Investments in 30+ Projects
 - Contribute to LCFS
 - Achieve Bioenergy Action Plan Target for Biofuels



California Biofuel Projects Needed to Meet Goals

- 12-16 Projects (Equivalent of 50 million – 100 million Gallons Per Year Production For Each) by 2020
- Capital Investment of \$4 Billion - \$5 Billion
- Feedstocks:
 - Agricultural, Forestry and Urban Waste Residue
 - Purpose Grown Crops (Sweet Sorghum, Grain Sorghum, Sugar Beets, Sugar Cane)
 - Algae



Energy Commission August 1, 2012 Workshop Highlights

- California Ethanol Production Incentive Program (CEPIP) Re-cap
- Ethanol Market Conditions
- Emergence of Business Model to Accelerate Advanced Biofuels
- Progress of California Advanced Biofuel Projects



Capability to Achieve Biofuel Objectives

- Recent Assessments:
 - AB 109 Benefits Report
 - E2 Advanced Biofuel Assessment
 - Boston Consulting Report
- Energy Commission Challenges:
 - Can AB 118 Investment Amounts and Mechanisms Stimulate Private Investment to Accelerate Commercial Biofuel Development?