

LCFS Pathway Certification Updates

March 8, 2016
Sacramento, CA

California Environmental Protection Agency
 **Air Resources Board**

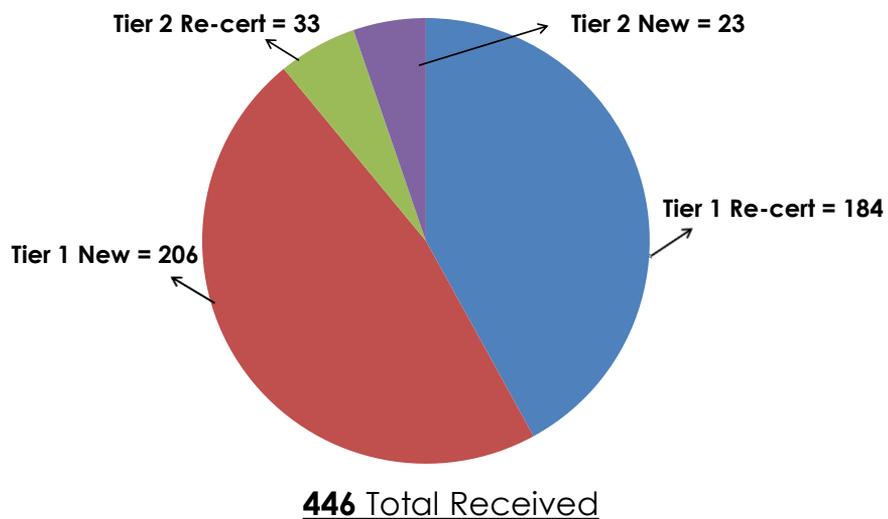
Overview

- Pathway Certification Updates
- Pathway Evaluation Process
- Additional Information/Clarifications
- Next Steps

Pathway Certification Updates

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Pathway Applications Received



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Detailed Breakdown of Pathway Applications

Pathway by Feedstock & Fuel	Re-cert		New	
	Tier 1	Tier 2	Tier 1	Tier 2
Corn Ethanol	53	9	37	6
Sorghum Ethanol	6	1	6	2
Sugarcane-based Ethanol	17	1	72	0
Cellulosic/other Ethanol	0	5	0	6
Biodiesel	25	4	63	7
Renewable Diesel	18	0	16	0
CNG/LNG	65	3	12	2
Hydrogen	0	5	0	0
Fischer-Tropsch	0	1	0	0
Renewable Gasoline	0	4	0	0
TOTAL	184	33	206	23

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Certification Status of Ethanol Pathways

Status	Re-cert		New		Total
	Tier 1	Tier 2	Tier 1	Tier 2	
Completed	60	7	27	0	94
Rejected/Withdrawn	3	0	50	9	62
In-Progress	13	9	38	5	65
TOTAL (Re-cert + New)	76	16	115	14	221

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Anticipated Pathway Release Dates

Fuels	Anticipated Release Date	CI Effective Date
Ethanol	March 31, 2016	1st quarter 2016
BD/RD	June 30, 2016	2 nd quarter 2016
CNG/LNG/L-CNG	September 30, 2016	3 rd quarter 2016
Others	September 30, 2016	3 rd quarter 2016
All Provisional Fuel Pathways	ASAP (and not limited by schedule above)	Quarter certified

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Pathway Evaluation Process

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Reasons for Rejection

- Method 1 not eligible for re-certification
- Applied in wrong Tier
- Tier 1 calculator not modifiable
- Applications without adequate plant and other supporting data
- Lifecycle methodology proposed not supported by submitted data

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Reasons for Rejection (cont'd)

- "Waste" classification not established
- CA-GREET 2.0 input parameters not verifiable
- Feedstock sources unverifiable
- Provisional pathway request requires most recent three months data

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Additional Information/Clarifications

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Section 100: Changes without Regulatory Effect

- Non-substantive changes to CA-GREET 2.0
 - Instructional corrections and clarifications
 - Correction of broken cell links
 - Correction of typographical errors

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Next Steps

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Next Steps

- All ethanol re-certifications will be made available to applicants for review
- Applicants will have seven business days to review and either accept or reject CI
- If applicants accept CI, requires them to upload the attestation letter to the AFP system and send the original via mail
- If applicants reject CI, may reapply
- All pathway CIs available from one website

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Next Steps (cont'd)

- Review and certification of applications submitted after January 31st will be completed after all applications received through January 31st have been completed
- Additional workshops will be scheduled in 2016 prior to release of BD/RD and NG/RNG pathways
- Feedback related to this workshop should be sent to Hafizur Chowdhury by March 18, 2016

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