

# LCFS Pathway Certification Updates

**March 8, 2016**  
**Sacramento, CA**

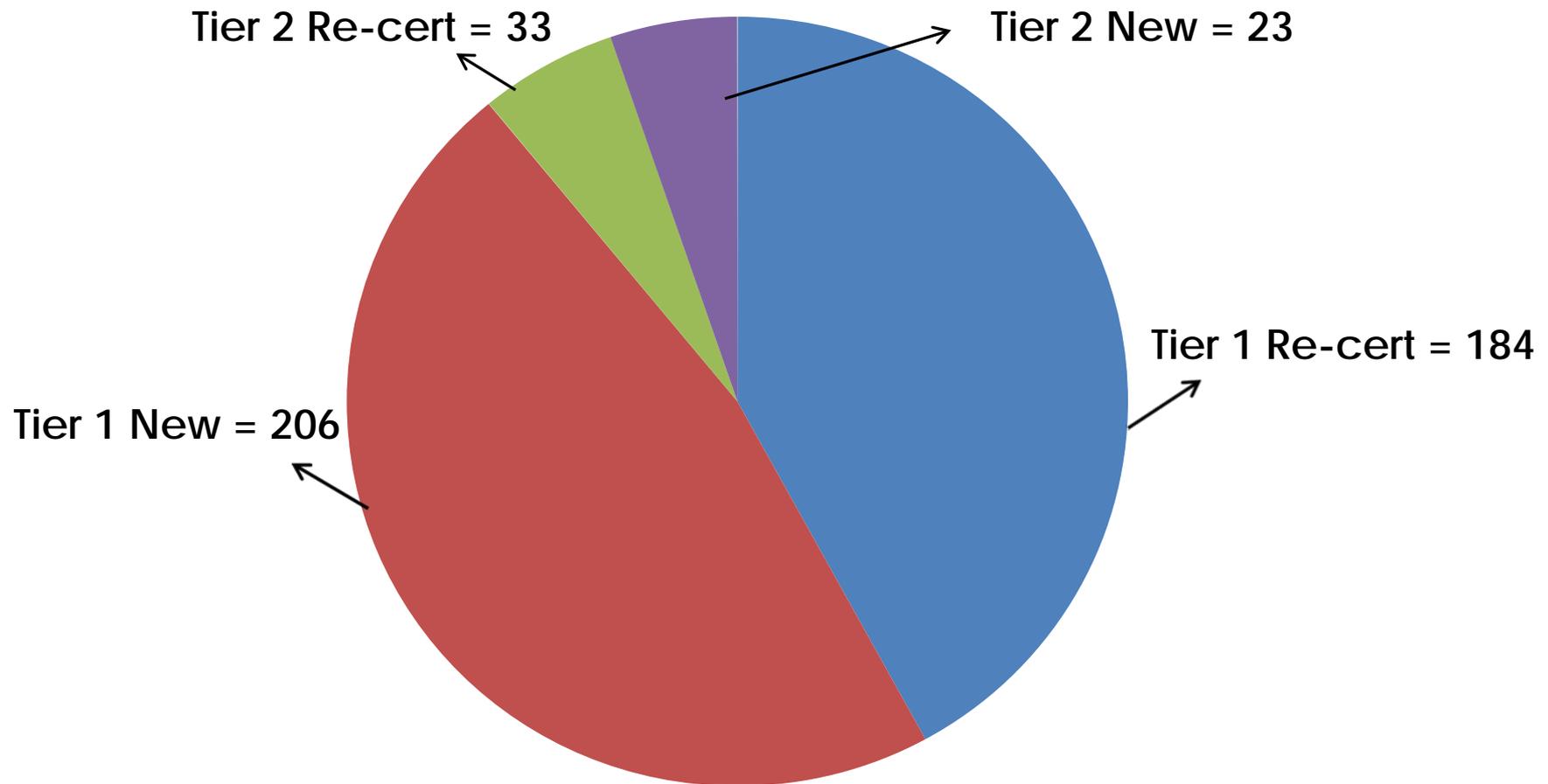
California Environmental Protection Agency  
 **Air Resources Board**

# Overview

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

# Pathway Certification Updates

# Pathway Applications Received



446 Total Received

# 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         |
| <b>TOTAL</b>                | <b>184</b> | <b>33</b> | <b>206</b> | <b>23</b> |

# 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| Rejected/Withdrawn           | 3         | 0         | 50         | 9         | 62         |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         |
| <b>TOTAL (Re-cert + New)</b> | <b>76</b> | <b>16</b> | <b>115</b> | <b>14</b> | <b>221</b> |

# Anticipated Pathway Release Dates

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

# Pathway Evaluation Process

# 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

# 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

# Additional Information/Clarifications

# 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

# Next Steps

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- 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

# Next Steps (cont'd)

- Review and certification of applications submitted after January 31<sup>st</sup> will be completed after all applications received through January 31<sup>st</sup> 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

# Contact Information

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