



## Who Are We:

For more than 25 years, Ashworth Leininger Group has assisted clients in securing local, state, and federal air permits, addressing complex air quality compliance issues, conducting environmental audits, preparing periodic air quality emission inventories and assessing facility impacts on local and regional air quality.

ALG is a leading environmental consulting and verification firm specializing in greenhouse gas (GHG) emissions analysis, lifecycle assessments (LCA), and verification for clean energy programs. ALG is accredited by multiple regulatory agencies and recognized for its expertise in supporting clients with 45V Clean Hydrogen Production Tax Credits and 45Z Clean Fuel Production Tax Credits under the Inflation Reduction Act.



## Core Services for 45V/45Z Tax Credit Assistance



- **Regulatory Consulting:** Guidance on IRS requirements, GREET modeling, and compliance strategies.
- **Verification & Certification:** Independent technical reviews and attestations per 26 CFR 1.45V-5 and 1.45Z-5.
- **Emission Rate Calculations:** Validation of carbon intensity (CI) scores using GREET-based models.
- **Lifecycle Analysis (LCA):** Comprehensive cradle-to-gate assessments for fuels and hydrogen production.
- **Conflict of Interest Management:** Full disclosure and adherence to IRS verification standards.

## Technical Expertise

- **GREET Modeling:** Proficient in 45ZCF-GREET and 45VH-GREET methodologies.
- **CI Optimization:** Identification of strategies to reduce carbon intensity.

## Accreditations

- **California Air Resources Board (CARB):** LCFS Verification Body (EO H3-23-002).
- **Oregon DEQ:** GHG and Clean Fuels Program accredited.
- **Washington Department of Ecology:** Clean Fuels Program accreditation finalized.

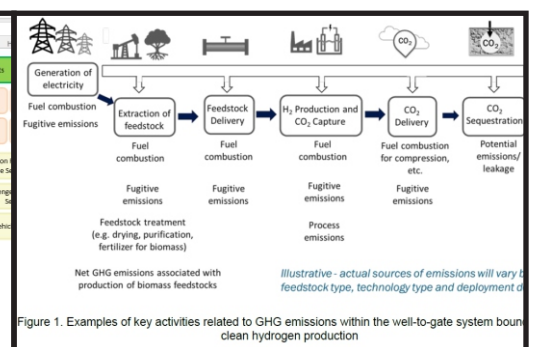
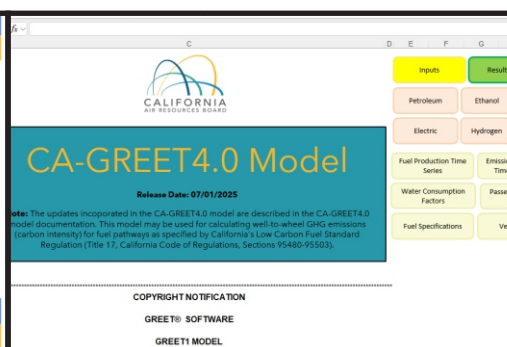
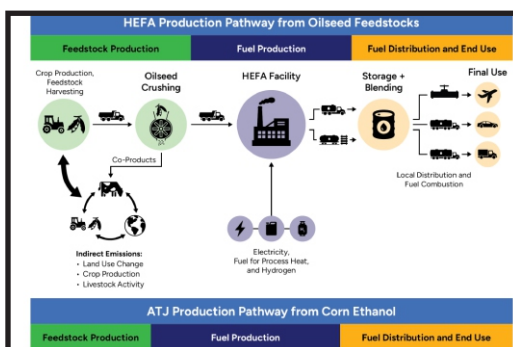
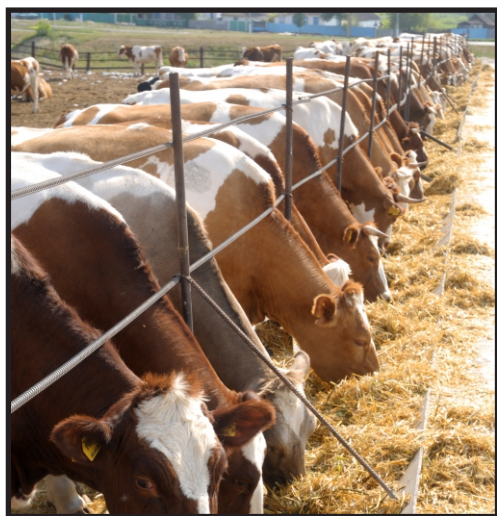


Figure 1. Examples of key activities related to GHG emissions within the well-to-gate system bound clean hydrogen production



## Relevant Project Experience



### 45Z Experience

- Biodiesel
  - Verified 45Z Clean Fuel Credit Emission Rate and Production Volumes for three soy and canola oil transesterification facilities.
- Renewable Natural Gas
  - Verified 45Z Clean Fuel Credit Emission Rate and Production Volumes for eight animal manure to RNG facilities.

### 45V Experience

- Pyrolysis of Biomass
  - Verified 45V Clean Hydrogen Tax Credit, including lifecycle GHG emissions assessment and attestations

## Team Qualifications



- Lead Verifiers:
  - Bradley Ripa (CARB EO H3-22-083)
  - Bart Leininger (CARB EO H3-24-036)
  - Irra Core (CARB EO H3- 22-019)
- Support Team: Experienced professionals in LCA, GHG accounting, and regulatory compliance.

### References

Available upon request from clients in renewable fuels, hydrogen production, and clean energy sectors.

ALG Website:



ALG LinkedIn Page:



**ALG**

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