



**Brent Riffel**  
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## Profile

Biofuel expert with over 11 years of experience consulting in the biofuels, renewable energy and biochemicals industries. Proven ability in business development, project management, life cycle assessment, fuel certification and greenhouse gas verification.

## Professional Experience

### **RIFFEL CONSULTING, LLC**

May 2012 – Present

*Principal*

- Grew company to over 50 clients
- Achieved 20 – 30% YoY growth
- Completed hundreds of life cycle assessments of biofuels, alternative fuels, electricity, biochemicals and consumer products
- Successfully certified numerous fuel producers under the CA LCFS, RFS2 and ISCC System
- Created significant client value by translating carbon intensity scores into revenue potential under LCFS and RFS2
- Audited 2 fuel pathways under the ISCC System
- Assisted biofuel producers in achieving CEC funding and biochemical producers in receiving DOE funding
- Developed customized life cycle tools for several fuel and chemical producers
- Assisted EPA in developing the Efficient Producer Petition Process (EP3) and interviewed in Ethanol Producer Magazine about EP3 process
- Successfully certified the first energy beet ethanol pathway under the CA LCFS with the lowest carbon intensity of any certified liquid fuel

### **LIFE CYCLE ASSOCIATES, LLC**

May 2007 – April 2012

*Life Cycle Assessment Consultant*

- Completed life cycle assessments of corn ethanol, sugar cane ethanol, soy biodiesel, UCO biodiesel and renewable diesel, oil sand products, palm oil biodiesel, biomass-derived FT fuels, solar panels
- Completed first corn ethanol pathway certification under the ISCC System
- Presented life cycle results at over 5 conferences, including Fuel Ethanol Workshop and Algae Biomass Organization
- Represented company at European symposium on framework for evaluating European petroleum fuels in Brussels, Belgium
- Developed customized algae fuel life cycle tool for the Ohio Aerospace Institute and lead seminar on life cycle methods and training for tool use

### **CALIFORNIA AIR RESOURCES BOARD**

May 2005 – April 2007

*Graduate Student Researcher in Sustainable Transportation Branch*

- Managed database and GIS map of hydrogen refueling stations under Hydrogen Highway program
- Managed DriveClean website, a buying guide for clean and efficient vehicles in California
- Conducted life cycle assessment of hydrogen production pathways and advised staff based on results
- Edited technical reports and contributed report content



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**INSTITUTE OF TRANSPORTATION STUDIES, UC DAVIS**  
*Graduate Student Researcher in Sustainable Transportation Branch*

October 2004 – May 2007

- Conducted life cycle assessments of dozens of hydrogen fuel pathways using the Life Cycle Emissions (LEM) model
- Developed framework for estimating the global warming potential of nitrogen oxide (NO<sub>x</sub>) emissions and calculated the relevant factors from climate model literature results
- Expanded and parameterized the LEM to calculate carbon dioxide equivalent emissions associated with NO<sub>x</sub> emissions on a regional basis
- Completed Master's thesis based on NO<sub>x</sub> research

**NASA AMES RESEARCH CENTER**  
*Atmospheric Chemist*

October 2003 – September 2004

- Designed and completed laboratory experiments representing acid catalyzed synthesis reactions in the upper troposphere
- Spectroscopically monitored the production of methyl nitrate in sulfuric acid/nitric acid solutions
- Results showed the impact of different acidity regimes on important atmospheric reactions
- Authored peer-reviewed article in the *Journal of Atmospheric Chemistry* on findings

## Education

Institute of Transportation Studies, **UC Davis**  
*M.S. Transportation Technology & Policy*

May 2007

**Pomona College**  
B.A. Chemistry

May 2003

## Certification

RSB Auditor

January 2014

## Skills

Microsoft Office, GREET model (all versions), California GREET model, GHGenius (all versions), OpenLCA with Ecoinvent, Life Cycle Emissions model (LEM), BioGrace, RSB GHG tool, WordPress