



CSU Powerhouse Energy Campus Fourth Floor Tenant Company Profiles

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Alden Labs

OVERVIEW

Founded in 1894, Alden is the oldest continuously operating hydraulic laboratory in North America and one of the oldest in the world.

From the early days of hydropower development and aviation, through World Wars I and II, and into the modern world defined by environmental needs, we have become a world-renowned leader in the field of fluid dynamics consulting, research and development.

We are a vibrant organization made up of engineers, scientists, biologists, and support staff. Much of our work supports the power generating, manufacturing, and process industries, and the list continues to grow into areas like aerospace, defense and bio-pharmaceuticals.

Services offered include conceptual design, detailed design, biological/fisheries studies, analytical modeling, Computational Fluid Dynamics (CFD), field measurements, physical modeling, precision flow meter calibrations, and field testing are all available at Alden.

LOCALLY

Alden was the prime consultant for the Northern Water Conservancy District (Northern Water) for the Hansen Supply Canal Poudre River Drop Structure Replacement Project.

AT A GLANCE

WEB: <http://www.verdantas.com/alden>

SOCIAL MEDIA: @aldenlab

CEO: Gerry Salontai, P.E.

LOCATIONS:

- **Headquarters:** Holden, Mass. (32-acre campus)
- Everett, Wash. (10K+ sq. ft. lab space)
- Fort Collins, Colo. (offers both analytical and CFD modeling support)
- Littleton, Colo. (offers structural engineering analysis and design)
- Portland, Ore. (offers nearby client support for both analytical and CFD modeling activities)

Alden provided complete structural and hydraulic engineering services, including hydraulic modeling for the design of the replacement drop structure and overall site improvements. The project was the recipient of The Colorado Contractors Association's 4th Annual H2O Awards in 2020. The Project won in the category of Open Concrete Flow Structures under \$6 million.

RECENT HIGHLIGHTS

At the 11th International Conference on River Connectivity held in June, several Alden delegates presented research associated with fish passage innovation and commitment to fish restoration.



AtmosZero

OVERVIEW

Founded in 2021, AtmosZero is developing drop-in solutions to decarbonize industrial process heat. Accounting for 25% of global energy demand, industrial heat is produced almost exclusively from fossil fuel combustion, resulting in more than 7.5 GT of CO2 emissions per year. As global attention increasingly focuses on the urgency of our climate transition, AtmosZero is focused on solutions that are better for the environment and industrial bottom lines.

AtmosZero draws on the deep experience in climate tech commercialization and industrial process heating of its three founders: Addison Stark (CEO), Ashwin Salvi (COO), and CSU mechanical engineering faculty member Todd Bandhauer (CTO).

The team met through ARPA-E where Stark and Salvi previously worked and Bandhauer’s research has been funded. Bandhauer directs the REACH CoLab, which is also based at The Powerhouse.

AT A GLANCE

WEB: <http://atmoszero.energy/>

CEO: Addison Stark

LOCATION:

- **Headquarters:** Fort Collins, Colo.

Berkeley Air Monitoring



OVERVIEW

Berkeley Air is a vetted technical partner for energy, health, environmental research, and development programs across the globe. Since 2008, we have built a portfolio of air pollution, health, and climate projects in over 30 countries across the globe. Berkeley Air’s mission is to provide rigorous, scientific, and cost-effective monitoring and evaluation services to household energy and air pollution initiatives. We carry out high-impact field studies to measure impacts on climate, health, livelihoods, and gender dynamics.

We are a social enterprise consultancy incorporated in California, USA (incorporated 2008) with clients in the public and private sectors, both in the US and abroad. We are connected to a network of technical and academic partners in Asia, Africa, and Latin America, who partner with us to collect data around the world.

Our vision is the widespread adoption of cleaner and more efficient household energy solutions in developing countries for global health and climate benefits, and the empowerment of North American communities to better understand and address threats from air pollution. Our goal is to meet the needs of our clients for credible, cost-effective monitoring and evaluation to measure and inform progress.

RECENT HIGHLIGHTS

Berkeley Air is conducting an impact evaluation study assessing changes to indoor air quality in low-income New York housing developments following the swap out of gas cooking appliances with electric appliances for a potential reduction in exposure to pollutants harmful to human health in the home.

AT A GLANCE

WEB: <http://berkeleyair.com/>

SOCIAL MEDIA:

Twitter/Facebook: @BerkeleyAir

Instagram: @berkeleyairmonitoringgroup

LOCATIONS:

- **Headquarters:** Berkeley, Calif.
- Fort Collins, Colo.



Cross Canyon Engineering

OVERVIEW

Cross Canyon Engineering was formed in 2018 by three engineers who love what they do but want to do it their way. Our physical presence spans Colorado from the Northern Front Range to the Southern edge of the San Juan Mountains, and our designs are energized across the nation.

Our approach to any engineering design is to create, refine, and deliver a final product that builds our relationships for us.

Cross Canyon Engineering, LLC provides electrical engineering services to its clients with a quality and value that is second to none. We are located in Colorado and have established presence on both the Front Range and Western Slope.

Our focus is on the planning, delivery, and utilization of electric power and ensuring its reliability for clients' operations. With more than 75 years combined experience, we can provide you the right solution for the right cost.

AT A GLANCE

WEB:

<http://www.crosscanyonengineering.com/>

LOCATIONS:

- Fort Collins, Colo.
- Durango, Colo.
- Cortez, Colo.

Husk Power Systems

OVERVIEW

Established in 2008, Husk pioneered an off-grid power generation and distribution solution to serve rural customers in Bihar, India. Husk was the first company to use 100% biomass gasification from rice husk to generate 6-7 hours of electricity for households and small businesses.

We offer a flexible, 100% renewable energy 'pay-as-you-go' service, using a mobile-enabled smart metering system. With a 24-hour onsite service team and a maximum four-hour response time when issues arise, we provide reliable, low-cost AC power that matches the aspirational needs of our customers; for households, community services, small businesses and factories.

Our grid-compatible 100% "theft proof" power generation and transmission lines meet global standards and can be rolled out rapidly and cost effectively to help meet national electrification goals. In addition to providing access to off-grid energy, Husk also sells household and commercial appliances to local communities, from TVs and freezers to biomass gasification system to power Ag-processing units.

RECENT HIGHLIGHTS

Husk Power Systems, the leading net-zero energy company serving rural Africa and Asia and operator of the largest fleet of community solar-hybrid microgrids, today (June 20, 2022) announced its "Nigeria Sunshot Initiative", a multiyear effort to benefit at least 2 million Nigerians with reliable, renewable energy by 2026.



AT A GLANCE

WEB: <https://huskpowersystems.com>

SOCIAL MEDIA:

Twitter: @HuskPowerSystem

Facebook: @HuskPowerSystemsIndia

Instagram: @huskpower

LOCATIONS:

- Bihar, India
- Jabi District, Nigeria
- Fort Collins, Colo.
- Dar es Salaam, Tanzania

Indigo Ag

OVERVIEW

Indigo Ag leverages science and technology to help improve the sustainability and profitability of the agriculture industry. The company's core biological and digital products – biottrinsic, Market+, and Carbon by Indigo – integrate across the supply chain to optimize how the world's essential crops are produced, sourced, and distributed.

Founded in 2013 with a mission to harness nature to help farmers sustainably feed the planet, Indigo connects stakeholders across the agricultural ecosystem to unlock benefits for all.

Indigo improves grower profitability, environmental sustainability, and consumer health through the use of natural microbiology and digital technologies.

Alongside farmers and buyers, we are building a system responsive to demands for high quality and sustainably produced food and fiber. Indigo develops biological and digital technologies that improve farmer profitability, environmental sustainability, and consumer health. These technologies underpin its pioneering business model, which spans agriculture's full value chain.

RECENT HIGHLIGHTS

June 29, 2022 (Boston, Mass.)-- Indigo Agriculture today announced the completed production of the first crop of verified, registry-issued ag carbon credits generated at scale, which will be formally issued by the Climate Action Reserve in the coming days. This historic milestone for Indigo's industry-leading carbon farming program, establishes ag carbon credits as a new global revenue stream for farmers and a credible, nature-based climate solution for businesses. The issuance of around 20,000 credits by the Climate Action Reserve (the Reserve) will be the first in a repeatable process for producing the highest quality offsets among agricultural carbon farming programs – and part of a growing voluntary carbon market experts predict will reach \$50 billion by 2030.



AT A GLANCE

WEB: <https://indigoag.com/>

SOCIAL MEDIA:

Twitter/Instagram: @Indigoag

Facebook: @IndigoAgriculture

LOCATIONS:

- **Headquarters:** Boston, Mass.
- Fort Collins, Colo.



AT A GLANCE

WEB: <https://www.montava.com/>

SOCIAL MEDIA:

Instagram: @montava_fc

Facebook: @montavafortcollins

LOCATIONS:

- Fort Collins, Colo.

Montava

OVERVIEW

Montava is a planned community set in northeast Fort Collins that will focus on New Urbanism. New Urbanism is a planning and development approach based on the principles of how cities and towns had been built for the last several centuries: walkable blocks and streets, housing and shopping in close proximity, and accessible public spaces. In other words: New Urbanism focuses on human-scaled urban design.

Montava will occupy 1000 acres in Northeast Fort Collins, 3 miles from downtown Fort Collins and 4 miles from CSU.

Fort Collins has been planning the northeast sub area for over 20 years. The development team has been committed from the beginning to make Montava the living embodiment of those plans and goals. Serving the needs of the entire NEFC community, this master plan includes everything needed for the self sufficient vitality of a community.

Natural areas, schools, parks and trails, a working organic farm, commercial services, gathering places and homes of all types and sizes will make Northeast Fort Collins a very special place to live.

An important part of City Plan and the MVSA plan is providing Natural Area access to people in Northeast Fort Collins. Part of that plan will be our partnership with the Natural Areas department to restore almost 150 acres of storm water land into a dual use Natural Area for community and wildlife benefit. This will be connected with the Farm through a trail network, providing almost 200 acres of open space and Natural Areas in NE Fort Collins.

Montava's Builders Guild consists of Thrive Home Builders, Wonderland Homes and McStain Neighborhoods. The Native Hill Farm have partnered with Montava to manage the on-site farm.

There is a rich history of agriculture in Fort Collins. We are embracing this history by integrating true urban farming into the DNA of Montava. By setting aside land that can be used to grow a wide variety of produce, we can foster people's connection with their food at this most basic level. With our partners at Native Hill Farm, Montava will become a sustaining influence for generations.



Moser Energy Systems

OVERVIEW

Moser Energy Systems is a world-class provider of innovative, low-emission, grid interactive distributed energy solutions for Oilfield Services, Commercial, Industrial, and Military applications.

Since 1973, Moser has been at the forefront of advances in distributed energy solutions. Moser's cutting-edge, eco-conscious technologies include industry-leading development of proprietary oilfield generator systems utilizing raw wellhead gas. These innovations substantially reduce flaring and offer customers significant reductions in operating expenses. The company's products and commitment to customers are recognized throughout the industry as the gold standard for low-emissions, reliable and durable natural gas generators, and hybrid generation systems.

Moser continues to build on its commitment to excellence and legacy of industry-leading innovation in pursuit of a greener future powered by flexible, smart energy applications with renewable, integrated grid services and active load management. With a dynamic vision, dedication to responsible business

practices, and cleaner, more efficient products, Moser is transforming power for the future.

AT A GLANCE

WEB: <https://moserenergy.com/>

LOCATIONS:

- Fort Collins, Colo.
- Evansville, Wyo.
- Watkins, Colo.
- Williston, ND
- Dickinson, ND
- Midland, Texas
- Floresville, Texas
- Roosevelt, Utah

Northern Colorado Clean Cities



OVERVIEW

A non-profit geared to build partnerships to advance affordable, domestic alternative transportation fuels and technologies.

PROJECTS

Alt Fuel School District Projects – Instituting electric vehicle buses into school systems. The program has helped deliver at least one EV bus to 13 counties in Colorado and a county-high seven EV buses to the Aurora Public Schools.

Alternative Fuel Corridor Development – NCCC is a part of the Clean Cities Alternative Fuel corridor development project to advance corridor development. We organize and facilitate alternative fuel infrastructure planning activities, alternative fuel corridor development (including support of the FAST Act Section 1413, Alternative Fuel Corridor Designation initiative activities), research and preparation of alternative fueling readiness plans, and planning for future fueling infrastructure development where current corridor gaps exist.

CSU Mobility and Energy Improvements – Led by CSU Principal Investigator Thomas Bradley, this project aims to combat issues right here in Fort Collins. The main three issues include traffic congestion along major transportation corridors, the interface between bus rapid transit (BRT) and traffic at intersections, and through-town Class 8 freight truck transport.

East Zion National Park Electric Vehicle Shuttle System Project – This project demonstrated a small scale, environmentally-sound, zero-emission, electric vehicle shuttle system through the East entrance of Zion National Park. This project will prove viability of electric vehicles (EV) in a rugged environment with extreme temperature variations and difficult road conditions in Southern Utah. The project has been designed for universal scalability, with deployment in other high-traffic, environmentally sensitive National and State Parks throughout the United States in mind.

AT A GLANCE

WEB: <https://northerncocleancities.org/>

SOCIAL MEDIA: @NOCOCleanCities

LOCATIONS:

- Fort Collins, Colo.



AT A GLANCE

WEB: <https://outofspecstudios.com/>

SOCIAL MEDIA:

Instagram/Facebook: @outofspecreviews

Twitter: @Out_of_Spec

LOCATIONS:

- Fort Collins, Colo.

Out of Spec Studios

OVERVIEW

Out of Spec Studios was created in 2017. Based in Fort Collins, Colorado we're a short blast from some of the best views and driving roads, making it an epic location to shoot vehicle reviews and adventures.

We are committed to bringing honest, thorough, and transparent automotive content to our audience. From electrified vehicles to overlanding builds, we're into anything with wheels... And some more!

Also operates SwerveAutos.com, which focuses on daily coverage for breaking automotive news, as well as written coverage on vehicle reviews and videos. SwerveAutos is your one stop shop to stay up-to-date on industry news.

RANGE Collaborative

OVERVIEW

In February 2022, the States of Colorado, New Mexico, Utah, and Wyoming signed a Memorandum of Understanding (MOU) to coordinate a regional clean hydrogen strategy to achieve the diverse policy objectives of this bipartisan coalition of states. The Western Inter-States Hydrogen Hub (WISHH) coordinates with industry partners, local communities, researchers, and other stakeholders to compete for a portion of the \$8 billion allocated in the 2021 Infrastructure Investment and Jobs Act towards four or more regional hydrogen hubs.

The WISHH Executive Committee— composed of representatives selected by each State’s governor— has contracted with Rocky Mountain Alliance for Next Generation Energy (RANGE) to evaluate projects and partners that may participate in an application for funding from the U.S. Department of Energy (DOE).

RANGE seeks information from those interested in participating in the clean hydrogen economy (producers, users, storage providers, and transporters) to inform early analysis and evaluate ideas for potential inclusion in funding opportunities.

RANGE is a non-profit corporation and is carrying on the reputation of collaboration built by the Colorado Energy Research Collaboratory over the course of years since 2007. The four-state RANGE initiative was originally convened by the Collaboratory bringing universities, federal labs, industry, and government to partner on the regional hydrogen hub.



RANGE
ROCKY MOUNTAIN ALLIANCE
for NEXT GENERATION ENERGY

AT A GLANCE

WEB: <https://RANGEcollaborative.org/>

LOCATIONS:

- **Headquarters:** Fort Collins, Colo.



Solaris Energy

AT A GLANCE

WEB: <https://www.solarisenergy.com/>

SOCIAL MEDIA:

LinkedIn: build-solaris-energy

Facebook: @solarisenergyabc

LOCATIONS:

- **Headquarters:** Fort Collins, Colo.

OVERVIEW

Solaris Energy is a certified B-Corp and 1% for the planet member. Our non-profit roots and mission-based values drive our team of experienced professionals to work together with solar builders, investors, and commercial energy consumers towards a 100% affordable and renewable energy future.

We offer our EPC builder partners affordable and simple Solar Service Agreements with 20 plus year terms. Our investors receive consistently stable returns while our solar energy customers save money on reliable and clean energy. Working with our solar company is a win for everyone.

The firm was listed on Solar Power World's 2021 and 2022 Top Solar Contractors list for the large amount of solar the company brought online the past several years.

LOCALLY

The Solinator Garden : The community solar site for City of Fort Collins bumps up against open space and becomes an extension of habitat for local birds, bugs, and bees through native pollinator plants and grasses. The size is 1 MW lifetime with production of 36,122 MWh and lifetime CO₂e Offset of 25,819 Metric Tons.

RECENT HIGHLIGHTS

Solaris Energy was featured on Solarpowerworldonline.com (July 2022) as it helped fund a solar microgrid project that will let environmental research firm Pacific EcoRisk remain operational at all times. The nearly 250-kW rooftop microgrid system is expected to produce over 380,000 kWh of clean, renewable energy in year one. The project was financed through a power purchase agreement with Solaris Energy and will save the organization \$24,000 in the first year of production.

Six solar sites across campus buildings were financed, developed and turned on in 2018. In 2020, Solaris Energy financed another 20 project sites across the campus. These projects have made CSU a national leader in the University system for solar energy and sustainability.



Solas Energy Consulting

OVERVIEW

Solas Energy Consulting leads the way in helping companies and organizations achieve a sustainable, zero-carbon future. Specializing in renewable energy, energy storage, hydrogen, electric vehicles (EV), biomass, geothermal, grid modernization, and climate change solutions, we support utility and commercial scale projects throughout their project life cycle.

Solas Energy has over 20 years of experience in new market entry strategy, project development, project and construction management, commercial structuring, and sustainability advisory.

We provide our clients with the depth and perspective required to navigate the complex issues associated with energy decarbon-

ization, emerging technology assessment, and climate change policy. As an independent, women-owned enterprise, Solas Energy helps companies and organizations achieve a sustainable, low-carbon future.

AT A GLANCE

WEB: <https://solarenergyconsulting.com>

LOCATIONS:

- **US Headquarters:** Fort Collins, Colo.
- **Canada Headquarters:** Calgary, Alberta

RECENT HIGHLIGHTS

In January 2022, Solas Energy Consulting US Inc. announced its role in supporting Global Infrastructure Partners (GIP) in its \$500 million investment in independent power producer (IPP) BrightNight, LLC, a leading renewable power company. Solas Energy Consulting acted as the key technical advisor to GIP for the \$500 million investment, which includes Preferred Equity and a letter of Credit Facility. As part of the due diligence for the project, Solas Energy evaluated BrightNight's hybridized development portfolio which includes a diverse set of resources, including solar PV and storage.

Spirae

OVERVIEW

Spirae is an innovative technology company that develops solutions for integrating renewable and distributed energy resources within microgrids and power systems for economic optimization, resiliency enhancement, and decarbonization. Headquartered in Fort Collins, Colorado, Spirae has developed, refined and validated its control platform and menu of customer-driven applications through numerous full scale and pilot projects in the Americas, the Caribbean, Europe, Africa, and S.E. Asia.

Our Wave Platform and Wave Microgrid Controller complement each other to offer a powerful set of capabilities for designing, deploying and operating microgrids that deliver immediate value to energy consumers.



AT A GLANCE

WEB: <https://spiraewave.com/>

LOCATIONS:

- **Headquarters:** Fort Collins, Colo.

Thrive Home Builders



OVERVIEW

For nearly 30 years, we've built homes in metro-Denver that give you the best, healthiest and most efficient choices available. Our promise is that Thrive will continue to evolve as a green home builder, using new technology and sustainable, locally-sourced products, because we're not just building homes for our customers, we're building them for our families.

We believe the true luxury of owning a healthy and new home is the peace of mind that comes from knowing you've done all you can for the people you love.

For nearly 30 years, Thrive has been the leader of energy-efficient home building in Colorado. We have built the most Zero Energy Ready homes and the most LEED Certified homes in the great state of Colorado.

In order to stay at the cutting edge of building healthy, new and efficient homes, we constantly adapt to our changing environment. We're proud to share the story of how we got here, and the incredible achievements our team has realized along the way.

RECENT HIGHLIGHTS

In July, Thrive Home Builders announced the introduction of Thrive Carbon-Wise, a new building approach to producing carbon neutral homes. This pioneering construction method focuses on reducing the embodied and operational carbon of the homes Thrive builds. The result is delivering a home that lessens the harsh impacts of carbon on the environment and helps combat climate change.

Thrive Home Builders will produce homes for the first time with this building approach in a community named Sonders in Fort Collins, Colorado, with two collections of single level homes and one collection of townhomes. Production of these homes in Northern Colorado will begin in the fall of 2022.

Thrive Home Builders won the silver in the 2020 National Housing Quality Awards by Professional Builder Magazine.

AT A GLANCE

WEB: <https://www.thrivehomebuilders.com>

LOCATIONS:

- **Headquarters:** Denver, Colo.
- **Fort Collins,** Colo.