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Working Toward a More Sustainable Future

The American Diversified Enterprises' Family of “Enabler” & “Innovator” Companies

American Diversified Enterprises (ADE) is an enabler, helping companies with new projects and initiatives advance. It also is an innovator, with several projects of its own under development focused on mitigating the climate crisis. [Read more about ADE and its companies below.](#)

**ENERGY
BUSINESS
REVIEW** TOP 10
ENERGY CONSULTING

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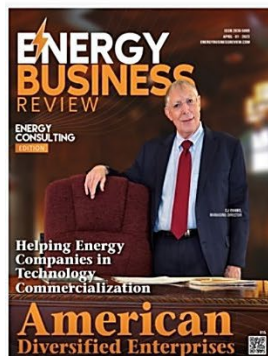
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MAGAZINE



ENERGY CONSULTING - APRIL, 2023



SECOND TO NONE

“Please meet CJ Evans, Managing Director of American Diversified Energy. If there is any group in the U.S. that can produce a strong feasibility study and a competitive loan application ... it’s them. We have worked with them on several projects now and have been nothing but impressed by their expertise, responsiveness, and quality ...[The] team’s level of meticulous care and attention to detail is really second to none, in our experience.”

— Max Vernier, Business Unit Leader,
Bioenergy Lending, Live Oak Banking Company

#1 SBA lender by volume; 2018 USDA Rural Business &
Cooperative Service Lender of the Year (REAP & B&I)



ADE helps shape and influence U.S. federal government policies

through a strategic collaboration that its managing director, a registered Washington, DC lobbyist for the past 44 years, co-founded with a prominent energy and project financing attorney, Mark Riedy of Kilpatrick, Townsend & Stockton, and Rina Singh, Ph.D.: the [Alternative Fuels & Chemicals Coalition](#) (AFCC):

- AFCC has grown into the second largest bioeconomy lobbying group in the U.S.,
- It is a potent advocate in the U.S. Congress and with U.S. federal agencies for the development and production of alternative fuels, renewable chemicals, biobased products, and sustainable aviation fuels (SAF),
- AFCC is powered by its 150+ member companies, with offices and manufacturing facilities located in a majority of U.S. states and overseas, that provide services and sell products, **delivering benefits and creating jobs, adding economic value, and generating tax revenues for virtually every community in every U.S. Congressional District and all U.S. states.**

ADE and AFCC are not alone in doing this. There are many advocacy groups representing their industry members. There also are many reputable and capable firms that provide many of the same services as ADE. ***Maybe not all three at once, maybe not with the same experience and success ADE has had, and maybe not in way ADE approaches the challenges faced by the innovators it assists.***

BEST POSSIBLE OUTCOME

“Your work was the highest caliber. Your ability to understand the unique requirements for each task element, from environmental to process, planning and construction, was commendable.

“You managed multiple critical areas and in each case communicated in a way that was most effective for success. With your guidance, we clearly achieved the best possible outcome.”

— *Jerry Gargulak, Business Development Manager, LignoTech USA, Inc.*

ADE is an Enabler:



Four of ADE’s companies – [American Diversified Energy](#), [3rd Party Services](#), [Due Diligence & Analysis](#), and [Project Financing Assistance](#) – serve as enablers.



The U.S. government has increased the amount of funding available through its grant and loan guarantee programs NEARLY FIVE-FOLD from its 2021 funding levels.

This is the result of the [Inflation Reduction Act](#), which directs nearly \$400 billion in federal funding to clean energy, with the goal of lowering the nation's carbon emissions by the end of this decade, with the funds delivered through a mix of tax incentives, grants, and loan guarantees.

Moreover, grants and loan guarantees are available to advance projects through all nine Technology Readiness Levels, from initial concept to commercial deployment (see the [Directory of Federal Funding Opportunities for Each Technology Readiness Level](#) on the American Diversified Energy website).



One of the ADE companies that serves as an enabler – [American Diversified Energy](#) – assists innovators in meeting requirements and preparing applications to apply for this funding. In the past year alone, American Diversified Energy has been working with a dozen companies to secure funding to deploy technologies that will:

- Produce biodegradable plastics that replace all types of fossil-based plastics and decompose seamlessly,
- Produce zero-emission electricity, hydrogen, gasoline, diesel, and sustainable aviation fuels (SAF),
- Produce renewable natural gas (RNG) from the methane released from landfills and organic wastes,
- Grow sustainable protein for feed and food, using cellular agriculture, without using land, plant, or animal products,
- Manufacture more efficient, advanced solar panels,
- Convert nonbiogenic wastes (tires, plastics, and the like) to the chemicals that are used to produce glues and adhesives, lacquers, detergents, fingernail polish, and other common products,
- Sequester carbon while producing renewable diesel and biomass power from forestry waste,
- Build the largest lithium battery gigafactory in North America with the capacity to produce enough batteries to power 650,000 vehicles per year,
- Deploy a technology for carbon recycling and expanding supplies of SAF and renewable diesel to reduce emissions and decarbonize the aviation and ground transportation industries,
- Deploy compact, modular geothermal units that generate power using the heat differentials between temperatures at the tops and bottoms of wells, which allows it to be used with any well with sufficient heat differentials, including abandoned oil wells,
- Establish waste processing facilities that allow municipalities to achieve zero-waste goals, using single-bin, mixed waste collection, that extracts all recyclables and produces a low-emission fuel that can replace, at a lower cost, the use of coal in industrial furnaces.



IMPROVED THE ECONOMICS & FEASIBILITY OF OUR PROJECT

“You created a comprehensive financial model that led to an improvement in the economics and feasibility of our project, presented the numbers in a compelling way, and laid the groundwork for us to apply for a government loan guarantee and tax-free bonds. It also gave our investors the numbers they needed to commit support to the project. Thank you!”

— Ray Crabbs, President & CEO, IBC Holdings

3rd

Another ADE enabler – 3rd Party Services – works on behalf of lenders, investors, and government agencies to prepare independent feasibility studies, risk analyses, energy audits, and technical, financial, economic, management, and environmental assessments that they require prior to financing approval.



ADE's third enabler – Due Diligence & Analysis – also works on behalf of lenders to provide loan underwriting services as well as an independent analyses of technical, financing, and construction planning due diligence to confirm that all material facts of a matter under consideration are accurate, complete, and clearly presented.

Securing the hardest money to find:

Finding the private Benjamins

Development Capital, the Lifeblood of Every New Initiative Is Much Too Hard to Obtain.

By C.J. Evans

Managing Director, American Diversified Enterprises, Co-Founder, Alternative Fuels & Chemicals coalition



**SPECIAL SIDEBAR:
How to Advocate for
Development Capital**

[click here to view article](#)



ADE's fourth enabler – [Project Financing Assistance](#) – is addressing the need to provide the critical, hard-to-obtain funding – development capital – to complete final development and carry out the necessary front-end engineering and design (FEED) steps to qualify for construction financing from commercial lenders and government loan guarantees.

Providing this funding will expedite the deployment of projects to address the climate crisis, not in 10 or 15 years, but in four or five years.

Project Financing Assistance (PFA) provides:

- Assistance in preparing clear, compelling, easy-to-read, and easy-to-follow project financing documentation
- Guidance on working with investors, lenders, venture capital and equity firms
- Access to multiple financing options, including a low-interest loan that provides financing for: 12 months and 1 day of full commercial operations (the requirement to be considered a “bankable” project by commercial lenders), commissioning and startup, construction and *the hardest money to find*: FEED.

More information about PFA and its loan programs is available on PFA's website on the [PFA's Loans](#) tab.

QUICK STUDY

“To come into a tight-knit professional group as an outsider and to quickly gain a working knowledge of both the enabling technology and the professional dynamics of three different companies as you did is a unique and valuable set of skills ...

“You are an outstanding group of consultant sand I would unreservedly recommend you to others.”

— Christopher Doherty, Chief Financial Officer, ThermoChem Recovery International.

ADE is an Innovator:

ADE has initiated three disruptive, innovative projects: [Fresh-to-the-Table Farms](#), [Privatelands.org](#), and [Mag-Lev Solutions](#), each of which has the capacity to make significant contributions toward reducing the impacts of the climate crisis.

Read the Profile of ADE's Managing Director, CJ Evans, in the May 2023 [Top 100 Innovators and Entrepreneurs](#) Magazine.



Fresh-to-the-Table Farms ([click her to view draft website](#))

is a collaboration between multiple farm operators that have developed cutting-edge technologies that have the potential to revolutionize agriculture. These technologies are being combined into a vertically integrated, planet-friendly, multi-enterprise group of model farms that will:

- Produce more than 150 farm products – from birth and seed to market and table – capable of feeding 350,000 people per year,
- Control every aspect of food production up through delivery, thus ensuring quality and fresh, grown-and-raised-to-peak-flavor, prepared-yesterday-delivered-today farm products,
- Capture the majority of each food dollar, not just the 7 cents normally earned by farmers, but up to 70 cents of every food dollar, with several multiples of that earned for custom-prepared, premium products meeting the specifications of specialty markets and chefs in four- and five-star restaurants,
- Incorporate humane, environmentally sound practices in every part of its operations,
- Generate no wastes – none: with nothing disposed, emitted, discharged, or leached, but instead, captured to produce clean water, renewable energy and fuels, renewable chemicals, and soil enhancements,
- Enhance the farms’ soils to be more productive and become carbon sinks, making the farms carbon negative,
- Use biosafe barns to provide healthier environments for farm animals, resulting in higher feed conversion and growth rates,
- Combine small amounts of seaweed into animal feed, per a [March 2021 study by the University of California at Davis, California](#), to reduce methane emissions from cattle and other farm animals by up to 90 percent,
- Produce fresh, picked-at-peak-flavor fruits, vegetables, and nuts; fresh meat and fish; milk; eggs; and grains; as well as ice cream, yogurt, cheese, butter, powdered milk, bread, and pasta, and ready-to-use and ready-to-cook packages of farm fresh products.

GREAT RESULTS

“I’m impressed with the caliber of your multi-faceted and talented team. They are true professionals in the way they go about getting the job done, their ability to work with every one of our staff and project partners, the guidance and encouragement they provide, and the results they get.”

— *Bart Wolman, Co-Chairman, EnRevo Industries*



Stewardship America, a nonprofit organization that took the lead in creating a private-landowner-driven program in the 1990s, later embodied in Florida State law, that brought the endangered Florida Panther back from the brink of extinction (from fewer than 20 individuals when the project was initiated to more than 250 individuals now),

is being revived as a non-profit organization and separate revenue-producing company.

Stewardship America's original mission was to "engender a thriving rural economy, an economically robust agriculture, a healthy natural environment, viable rural communities, safe supplies of food and fiber, and potent actions to address climate change."

This mission will be expanded to focus on creating incentives for rural landowners, who manage more than half of the U.S. land area, to enhance the viability of the ecosystems on their lands and adopt practices to increase their lands' ability to serve as carbon sinks.

ONE OF THE BEST!

"The company's managing director is an excellent facilitator, has opened doors for us with different agencies, and is a highly effective lobbyist. One of the best we've ever worked with!"

— Philip Smith, CEO, EnRevo Pyro



Mag-Lev Solutions ([click here for a brief overview](#)) has the potential to transform the world's divided roadways into high-speed, safe, non-polluting

transportation systems, using a single lane of existing roadway rights-of-way in both directions to transport existing vehicles – from compact cars to tandem trailer lorries and trucks – from point to point on drive-on, drive-off transporter sleds that speed along at up to 300 miles per hour on solar-powered/battery storage mag-lev guideways – without using any fossil fuels.

TOP-QUALITY RESULTS

"An extremely talented advocate and consultant in renewable energy and government funding. I have always been impressed by the top-quality results."

— Mark Warner, Senior Vice President of Engineering at Solazyme, Inc.