AGENDA ITEM #X.A.

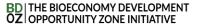


BDO Zone Ratings

Accelerating development of clean fuel production facilities in the U.S.: Bioeconomy Development Opportunity Zone Ratings

> Jordan Solomon President & CEO, Ecostrat Chairman, BDO Zone Initiative





BD OZ INITIATIVE A BDO Zone rating is a standards-based assessment of <u>biomass feedstock and</u> <u>infrastructure attributes</u> of a region with respect to <u>development potential</u> of new biofuel, renewable chemical, biogas or bioproduct manufacturing plants.

The BDO Zone Initiative enables regions to leverage local biomass assets to attract new bio-based manufacturing plants-- and create jobs.





BDO Zone Ratings Due Diligence

• BDO Zones undergo rigorous and extensive due diligence using a standardized framework of over 100 transparent and validated risk indicators.

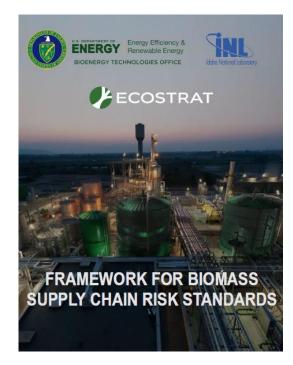
Feedstock surplus **Committed suppliers** Sound infrastructure Data indicating at least a 3x Biomass Evidence supporting long-term The OZ must have suitable Availability Multiple of excess commitment to supply both quantity transportation, logistic, operating and sustainable feedstock available to and quality by local farmers, forestry supporting infrastructure to meet the companies, food waste generators, requirements for new facility support typical intake of new biofuels, biochemical and biomaterial production haulers and municipalities. construction and operations. plants.

• "A" and "AA" BDO Zone Ratings identify optimal zones for new biobased development.



The 3 Pillars of BDO Zone Designations

Recognized, Credible, Transparent, Standards-based Ratings Framework



- BDO Zone Ratings are issued within the framework of the US Standards for Biomass Supply Chain Risk.
- 6 years development by US Department of Energy (USDOE)/ Idaho National Labs, Ecostrat, and a 65 member, \$60B capital market ratings review committee.
- >\$6MM funded by USDOE's Bioenergy Technologies Office (BETO).







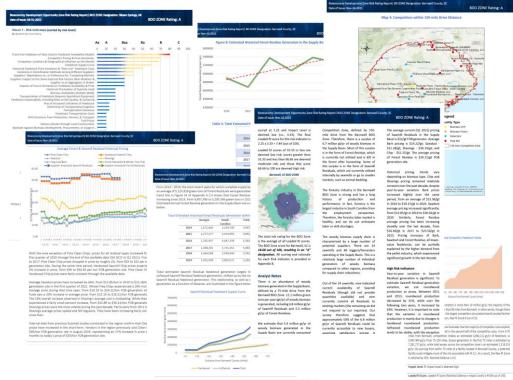
Barnwell County, SC **BDO** Zone 'A' Rating

- \geq 'A' rated BDO Zone for woody biomass.
- Strong supply chain attributes; well- \geq developed operating infrastructure for new plant development.
- Ratings upgrade to 600,000 bone dry \geq tons Q3 2022
- Currently in discussion with major SAF \geq company for \$1B plant development!

Bioeconomy Development Opportunity Zone Risk Rating Report | BDO ZONE Designation: Barnwell County, SC Date of Issue: Nov-16-2021

BDO ZONE Rating: A

Bioeconomy Development Opportunity Zone Risk Rating Barnwell County, SC Bioeconomy Development Opportunity Zone is rated "A". Long- term outlook on feedstock price and quantity of Forest & Sawmill Residuals is deemed stable. Key risks are likely addressable.



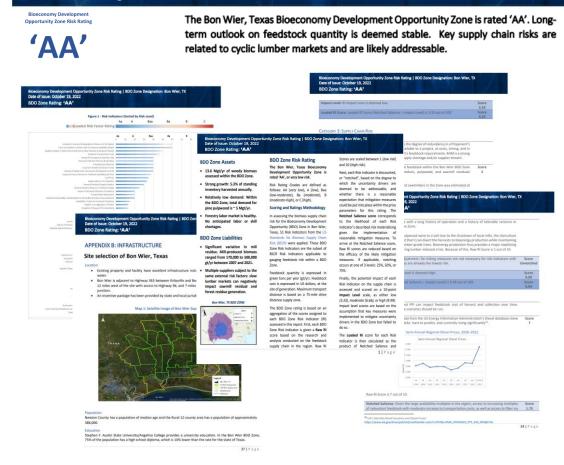




Bon Wier, TX BDO Zone **'AA' Rating**

- First ever 'AA' rated BDO Zone
- Rated for 2 million gt/y of woody biomass 75 mile radius ex Bon Wier, Texas, USA.
- Strong growth to drain ratio. Strong harvest and delivery infrastructure.
 Broad access to additional supply beyond Zone.
- BDO Zone Rating supported by USA Biofuels and Citi Bank for \$1B capital raise for SAF project.

Bioeconomy Development Opportunity Zone Risk Rating | BDO Zone Designation: Bon Wier, TX Date of Issue: October 19, 2022 BDO Zone Rating: **'AA'**



Bon Wier, TX 'AA' BDO Zone Rating supports capital raise

Date of issue: October 2022



Bon Wier, TX Rated AA for 2Mgt/y of woody biomass

The 'AA' BDO Zone Rating for Bon Wier, TX supports the siting decision and \$1B capital raise for USA BioEnergy's development of an advanced biorefinery.

citibank

"Citi and USA BioEnergy have worked closely together for more than two years to develop an efficient, achievable plan and we look forward to delivering on this vision."

David Livingstone, Managing Director, Citigroup, BDO Zone Press Release Oct 19 2022



"USA BioEnergy is committed to delivering over 100M gallons of sustainable aviation fuel into LAX annually. Airlines using our sustainable aviation fuel will eliminate over 50M metric tons of greenhouse gas emissions over a 20-year period."

Nick Andrews, CEO, USA BioEnergy, BDO Zone Press Release Oct 19 2022

BDO Ratings supercharge bio-based economic development: BDO ZoneCONNECT connects BDO Zones with >1000 project developers and investors worldwide

'Bio-Business Development' Webinars

Viewed by >1000 bio-project developers and investors worldwide

Access to TheDigest's >5 million unique online bioeconomy sector readers, 140,000 streaming viewers bio-industry stakeholders and 45,000 daily newsletter subscriptions.

'Rapid Accelerator' Meetings

Private, hosted discussion groups

Private zoom meetings with 50-100 pre-qualified bio-project developers, investors and strategic partner companies actively looking to build new bio-based plants in BDO Zones.





BD THE BIOECONOMY DEVELOPMENT OZ OPPORTUNITY ZONE INITIATIVE

BDO Zone Investment Coalition

April 22, 2021: **\$1 Billion announced** for deployment into bio-based investment in BDO Zones



The BDO Zone Investment Coalition is a group of leading capital markets¹ with a collective **goal of investing \$1 billion in BDO Zones** to build new biofuel, renewable chemical, biogas manufacturing plants.

BSCR Risk Ratings Review Committee Members



See all BDO Zone Investment Coalition members: www.bdozone.org/us/support See all 65 BSCR RC members: ecostrat.com/standards/participants

¹ Made up 16 members of the BSCR Review Committee

The BDO Zone Summit

PROGRAM AGENDA

1:00 OPENING REMARKS

How BDO Zones help communities leverage biomass assets to create jobs. Why BDO Zone Designations drive and unlock bio-investment and get new plants built faster.





Jordan Solomon President & CEO Ecostrat Chairman of the BDO Zone Initiative

Mark Riedy General Counsel & Co-Founder Alternative Fuels & Chemicals



1:10 COMMUNITY PANEL

Real communities speak about opportunities and barriers to attracting biobased investment and deal-flow. Grassroots support for BDO Zone Designations from local communities and EDAs. Moderated by Wes Jurey, ATIP Foundation.

Coalition (AFCC)



Donna Gambrell

President & CEO

Appolachian Community

Capital



Sumesh Arora Director of Energy & Natural Resources Division Mississippi Development Authority

Greg Norton President Golden State National Resources Corporation



View the BDO Zone Summit here:

https://bdozone.org/the-bdo-zone-summit-2021/

Nick Andrews CEO & Founder

Chris Whitworth Project General Manager Northwest Advanced Biofuels

2:20 USDA REMARKS

USA Bioeneray



Executive Director US Industrial Pellet Association

Executive Director American Biogas Council



Dr. Karama Neal Administrator, Rural Business-**Cooperative Service** USDA Rural Development



1:40 CAPITAL MARKETS PANEL

Barriers to investing in rural and distressed communities. Why are BDO Zone designations meaningful for capital markets? How much capital is "investment ready" to stand up biobased plants across the country? Moderated by Jordan Solomon, Ecostrat,









David Livingstone Managing Director Citigroup

Max Vernier Head of Bioenergy Live Oak Bank

Scott Chabina CEO & Founder Chabina Energy Partners

Banking Division Goldman Sachs 2:00 PROJECT PANEL

Vice President, Investment

Why BDO Zone Designations help create efficiencies for project developers. Why they help projects succeed. How they make developers develop more biobased projects faster. Moderated by Mark Riedy, AFCC.









In a nutshell, BDO Zone Ratings...



- Pre-vet, and quantify key regional biomass feedstock and infrastructure "success" characteristics.
- ✓ Connect BDO Zones with bio-based project developers and investors around the world
- ✓ Link BDO Zones with \$1B of private capital to get new plants built.
- ✓ Drive new biobased manufacturing to rural communities <u>and create jobs</u>!







Want to know more?

Contact:

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