

land betterment



Earth and Community First

Overview

Land Betterment LLC is a sustainable community development company that provides environmental services and remediation of former coal mining sites to upcycle the land for sustainable economic opportunities for the local population.

Environment – Community – Employment

“Land Betterment is committed to efficiently restore and remediate former coal mining sites and upcycle the land into areas that the local communities can be proud of, while generating employment and reinvigorating the region.”



Environment – Community – Employment

- We affordably and expeditiously **reclaim mining sites** to restore the land through an environmentally sustainable process.
- We **develop alternative uses** of previously impacted land that benefits the environment and provides long term sustainable employment opportunities.
- Environmental remediation of impact areas can live **side-by-side** long term employment.
- **Economic stability** is a key factor in the sustainability of any community.
 - Without income based opportunities for the community the land will not stay maintained.
 - Without employment the population will become unsustainable.
- **Private-public partnerships** are a key attribute to economically viable solutions in local revitalization.

Win – Win Solutions

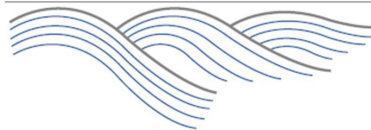
Land Betterment believes that when it comes to the environment it does not have to be a win / lose scenario.

Environmental Restoration

Post Reclamation Impact

Long Term Job Creation

land betterment



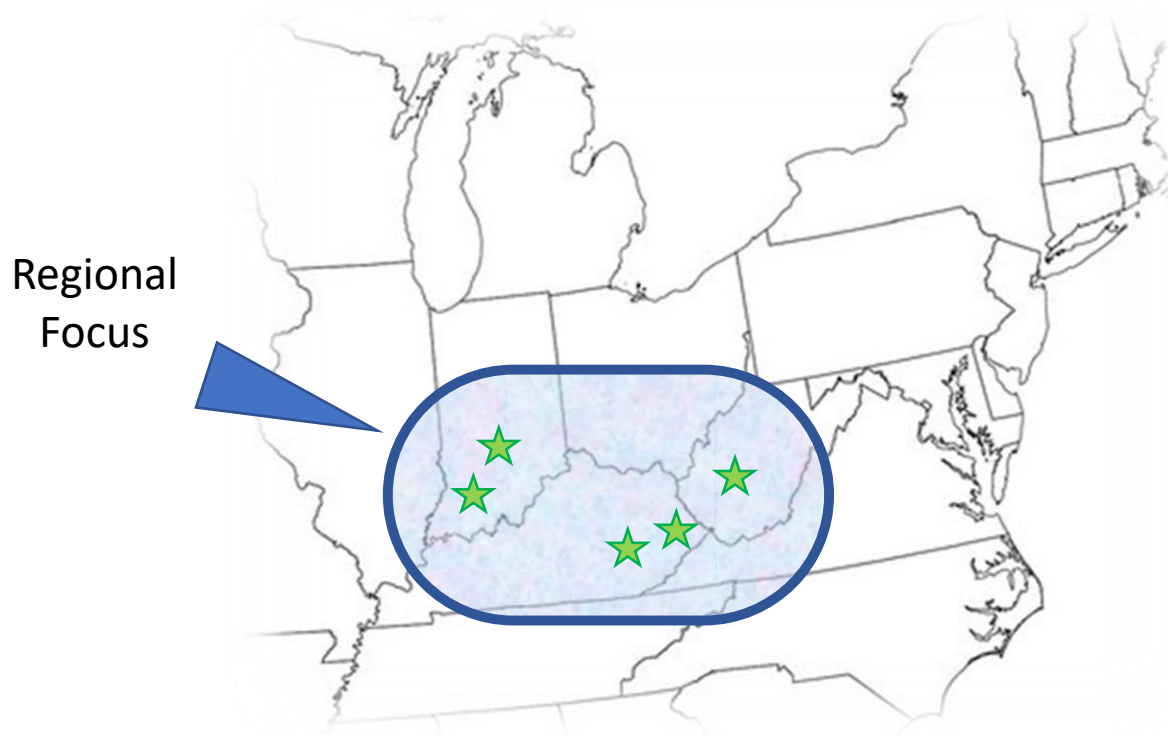
Economic Diversity

Local Presence / Workforce

**Experienced in all
Facets of the Process**

Geographic Expansion

- Land Betterment's emphasis is on areas deemed high impact zones within the Central Appalachian region and Midwest.
- Areas of impact have experienced massive economic swings resulting in substantial and long-term environmental and community needs.



 Active projects or projects under evaluation by Land Betterment

Industry Overview

Thermal coal use is dissipating at a record pace, with very little reason to be optimistic about the industry's future.

- Utility generation from thermal coal is down to 27% from 50% over the course of 13 years.
- In 2016 thermal coal mines were at their lowest numbers in at least 125 years (employing ~ 50,000 people).
- Additional coal utilities are forecasted to close due to natural gas pricing and climate change concerns.

Coal Mine Closure Costs

Industry changes have left massive liability that have fallen to the tax payers in certain states and regions across the country.

- We have forecasted well over 20 to 30 years of environmental reclamation work required in the Central Appalachian region alone.
- We believe that the number of mine closures in this region will continue to grow at an expedited pace, with many of the costs falling into the hands of the tax payers to be reclaimed and repurposed.

Our estimate of the cost to remediate phase one properties is north of \$500,000,000!

History of Success with Remediation of Impact Zones

The founders of Land Betterment have a repeated history of success with eliminating various environmental impacts of old mine sites providing for the repurposing of land for the environment and community.

Thermal Coal Mine Remediation

Before



After



Alternative (Natural) Water Treatment Process

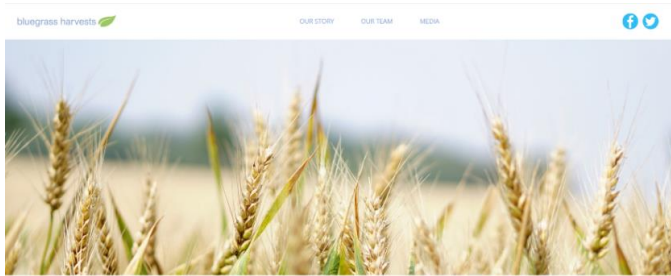


Coal Mining Complex Removal



Community Development

A community cannot survive if the population does not have desirous sustainable employment opportunities. We utilize previously impacted lands to build sustainable opportunities for the local population.



Bluegrass Harvests, a Land Betterment Company, is a sustainable farming company that is able to upcycle previously impacted land from prior coal mining and industrial activity. We provide the highest quality of agriculture while providing job opportunities to a region that is in need of sustainable employment.

Bluegrass Harvests

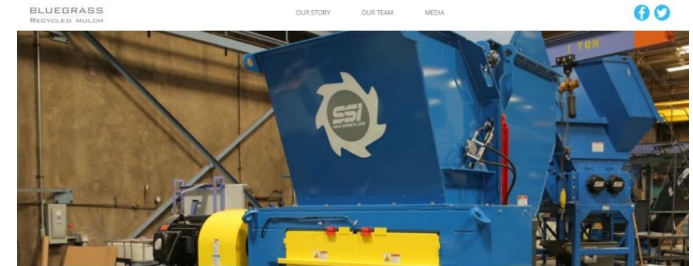
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www.bluegrassharvests.com

Bluegrass Recycled Mulch

Bluegrass Recycled Mulch, a Land Betterment Company, is a rubber recycling company that primarily utilizes abandoned tires from prior thermal coal mining activities. The land utilized to support the recycling activities has been upcycled from a previous thermal coal refuse impoundment.

www.bluegrassmulch.com

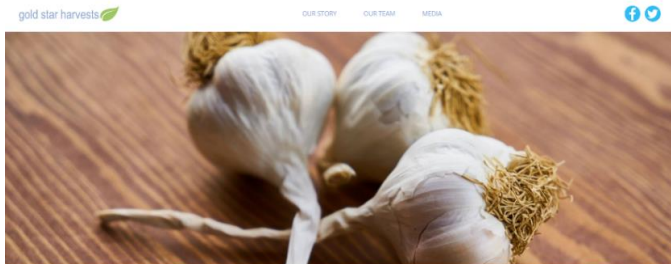


Bluegrass Recycled Mulch, a Land Betterment Company, is a rubber recycling company that primarily utilizes abandoned tires from prior thermal coal mining activities. The land utilized to support the recycling activities has been upcycled from a previous thermal coal refuse impoundment.

Goldstar Harvests

Gold Star Harvests, a Land Betterment Company, is a sustainable farming company that has upcycled the land that has been previously impacted from prior coal mining and industrial activity. We provide the highest quality of agriculture while providing job opportunities to a region that is in need of sustainable employment.

www.goldstarharvests.com



Gold Star Harvests, a Land Betterment Company, is a sustainable farming company that has upcycled the land that has been previously impacted from prior coal mining and industrial activity. We provide the highest quality of agriculture while providing job opportunities to a region that is in need of sustainable employment.

Post Environmental Restoration Land Use

Land Betterment understands that all land is not equal and that one solution does not fit all areas. We have developed strategic relationships and partnerships where we can implement real and effective solutions to benefit the community.

- **Recycling Facilities:** Land Betterment partners with tire recycling and other industrial operations to utilize what the local community produces, and repurpose such sites for further economic opportunities.
- **Vertical Farming:** Use of available reclaimed land to build a fully functional vertical farm utilizing powerful full spectrum LED grow lights, controlled and monitored environment, advanced nutrients supply systems and resource management.
- **Micro Community Farms:** The establishment of rentable micro farm plots to local residents that may not have access to land themselves.
- **Housing Communities / Storage Facilities:** The previously impacted land can be redeveloped for affordable housing communities and storage facilities, both of which are limited in the region given the terrain.
- **Recreational Use:** Presence in rural, forested regions of eastern Kentucky, the company controls hundreds of acres for recreational use, including hiking, camping, and other outdoor activities.



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