

INQUIRY INTO BENEFICIAL AND PRODUCTIVE POST- MINING LAND USE

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Date Received: 23 May 2024

The Benefits of Repurposing Disused Coal Mining Facilities and Leases

Introduction

The decline of the coal industry has left many regions grappling with economic downturns and environmental degradation. However, the disused coal mining facilities and leases present unique opportunities for repurposing that offer sustainable alternatives to the declining coal industry. By leveraging existing power and road infrastructure and adopting self-sustaining practices such as recycled water use, these initiatives can provide significant economic, environmental, and social benefits to the affected communities.

Economic Benefits

Water Management

One of the most promising uses for abandoned coal mines is in water management. These sites can be transformed into water storage or treatment facilities, aiding in local water management and supply. This repurposing not only addresses water scarcity issues but also creates jobs in water management and infrastructure maintenance. By utilising existing infrastructure, the cost of setting up these facilities can be significantly reduced, providing a cost-effective solution to water management.

Community and Commercial Development

Repurposing disused mining lands for community and commercial development can stimulate local economies. Housing developments on these lands can help address housing shortages, particularly in regions hard-hit by the coal industry's decline. By transforming these areas into residential zones, communities can attract new residents and foster economic growth.

Moreover, redeveloping these lands into commercial or retail spaces can create new economic activities and job opportunities. The existing road infrastructure can be utilised to support these developments, reducing the need for additional investments. This transformation not only revitalises the local economy but also enhances the quality of life for residents.

Environmental Benefits

Sustainable Water Management

Abandoned coal mines can play a crucial role in sustainable water management. By converting these sites into water storage and treatment facilities, communities can better manage their water resources. These facilities can use recycled water, reducing the reliance on freshwater sources and promoting water conservation. This approach aligns with environmental sustainability goals and addresses the critical issue of water scarcity.

Land Reclamation and Green Spaces

Repurposing disused mining lands can contribute to environmental restoration and the creation of green spaces. These areas can be rehabilitated to support biodiversity and improve local ecosystems. By transforming these lands into parks, nature reserves, or agricultural zones, communities can enhance their environmental health and resilience.

Social Benefits

Community Revitalization

The repurposing of disused coal mining facilities and leases can lead to significant social benefits by revitalising communities. Housing developments can attract new residents and provide affordable housing

options. This influx of new residents can rejuvenate local schools, businesses, and services, fostering a sense of community and improving the overall quality of life.

Job Creation and Skill Development

The transition from coal mining to new industries such as water management, commercial development, and land reclamation can create numerous job opportunities. These new jobs can range from construction and maintenance to management and environmental conservation. Additionally, training programs can be established to help former coal miners and other residents develop new skills, ensuring they can participate in and benefit from these new economic activities.

Conclusion

Repurposing disused coal mining facilities and leases offers a sustainable and multifaceted approach to addressing the economic, environmental, and social challenges posed by the decline of the coal industry. By leveraging existing power and road infrastructure and promoting self-sustaining practices such as recycled water use, these initiatives can provide substantial benefits to affected communities. Through innovative water management, community and commercial development, and land reclamation efforts, former mining regions can be transformed into vibrant, sustainable, and resilient communities
