

BOOKLET

'A Drop For Sustainability!'



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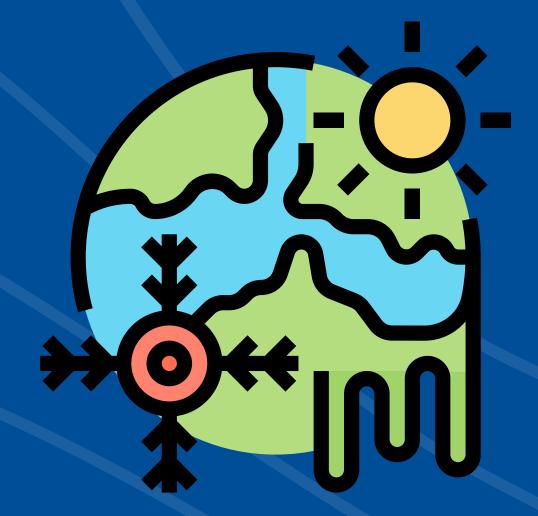
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A THREAT: CLIMATE CHANGE



What Is Climate Change?

Long-term alterations in Earth's weather patterns, including rising temperatures, extreme weather events, and shifts in ecosystems, caused by human activities.

Why is Climate Change Important?

It disrupts ecosystems, endangers biodiversity, and poses severe threats to human well-being. It accelerates sea level rise, intensifies natural disasters, and necessitating urgent collective action.

How Does Climate Change Affect Us?

Through more frequent and intense heatwaves, storms, and rising sea levels, climate change jeopardizes food and water security, and exacerbates health risks.

What Should We Do?

Individuals and nations must reduce carbon emissions, transition to renewable energy, protect ecosystems, and promote sustainable practices simillar to Lignopure.

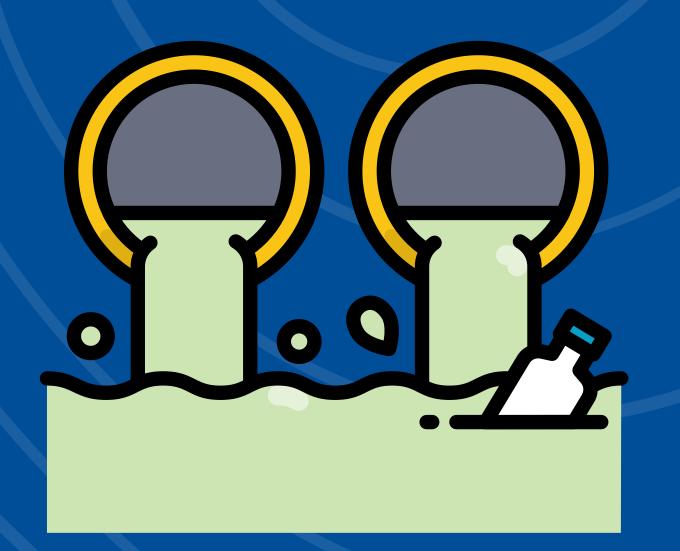




WATER CONTAMINATION

What is Water Contamination?

Introduction of harmful substances into water bodies, compromising its quality and making it unsafe for consumption or detrimental to ecosystems.





Main Causes of Water Contamination

- Industrial waste
- Agricultural runoff
- Oil spills
- Climate change
- Mining activities
- Seismic events

Top Contaminated Rivers in Turkey

Ergene River
Great Menderes River
Çoruh River
Euphrates River
Tigris River

PROBLEMS CAUSED BY WATER CONTAMINATION



Health Issues: Waterborne diseases such as cholera, dysentery, giardiasis, and hepatitis.



Soil Contamination: Contaminated water used for irrigation can lead to soil pollution, affecting the quality of crops and vegetation.

Taste and Odor Issues: Contaminants can affect the taste and odor of water, making it unappealing and reducing its quality.



Discoloration: Certain pollutants can cause discoloration of water, raising concerns about its safety and potability.

SOLUTION: LIGNOPURE



Lignopure is an innovative bio-based solution, carefully formulated with an agircultural waste rice husk.



This unique composition is designed to effectively address

water contamination issues in both agricultural and drinking water contexts.

Unlike existing solutions to water contamination, Lignopure stands for a biodegradable and multifunctional solution alligning with its costeffectiveness and improved agricultural waste management.

DETAILED DESCRIPTON : LIGNOPURE

A Lignocellulosic Biomass: Rice Husk

Composed of polysaccharides (cellulose and hemicelluloses) and an aromatic polymer (lignin). Lignopure is made of rice husk.





How Does It Work? 60 minutes is enough for Lignopure to absorb heavy metals and dye pollutants in water sources. Additionally, it can be implemented to any water filtarion system!

ENVIRONMENTAL IMPACT



Lignopure;

Replaces harmful chemicals in water treatment, minimizing pollution and protecting ecosystems, and lessens the chemical dependence

Decomposes naturally, avoiding harmful residues and ensuring safer water disposal.





Uses renewable resources: Utilizes sawdust, a waste product, promoting circular economy and reducing reliance on virgin materials.

Absorbes both natural and human threat: landslides dump muddy sediment, fractured rocks release toxic metals, while damaged infrastructure spills chemicals and sewage, all polluting the water and endangering ecosystems and potentially human health.



SOCIAL IMPACT

Decentralized and cost-effective water treatment can provide safe and clean drinking water to communities lacking access to existing infrastructure.

Provides an alternative water source in emergencies and natural disasters. Results in improved public health, reduced waterborne diseases, and empowered vulnerable populations.

Builds self-
reliance and
resilience in
communitiesFosters local
ownership
andcommunities
facing watermanagement
of waterscarcity.resources.

Empowers communities to adapt to climate change and water scarcity challenges.





LIGNOPURE

'A Pure Future Is Possible!'

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