

Brief Discussion on Geological Disposal of Radioactive Waste

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Letter

Abstract: This letter discusses the geological disposal of radioactive waste, focusing on the challenges and solutions. The waste is highly radioactive and long-lived, requiring safe and secure disposal. The geological disposal method involves isolating the waste from the biosphere for thousands of years. This is achieved by using multiple barriers, including the waste form, container, and geological formation. The waste form is a key factor in the disposal process, and it should be stable and resistant to leaching. The container should be made of a durable material and able to withstand the harsh conditions of the geological disposal site. The geological formation should be stable and have low permeability to prevent the migration of radionuclides. The disposal site should be carefully selected and monitored to ensure the safety of the surrounding environment and population. The geological disposal method is a promising solution for the safe and secure disposal of radioactive waste, but it requires further research and development to overcome the challenges and ensure its long-term success.

1. Introduction

2. Geological Disposal of Radioactive Waste

3. Challenges and Solutions

4. Conclusion

5. Acknowledgement

6. References

7. Conflict of Interest

8. Author Information

9. Correspondence

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12. Copyright

Conflict of Interest

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