Research Proposal Form

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Unit 13: Computing research project

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Date: 5/4/2023

Propose title : The use of modern methods to reduce carbon emissions in IT network systems.

Research question:

RQ1. What are carbon emissions?

RQ2. Why is the IT industry a significant contributor to carbon emissions?

RQ3. What are the main sources of carbon emissions in digital technology?

RQ4. How can the energy consumption of data centers be reduced to lower carbon emissions?

RQ5. How can software development practices contribute to reducing carbon emissions in digital technology?

RQ6. Why is it important to address carbon emissions from digital technology?

RQ7. Why is energy efficiency important in reducing carbon emissions from digital technology?

RQ8. What is the role of big data in reducing carbon emissions from digital technology?

RQ9. What is the role of big data in reducing carbon emissions from digital technology?

RQ10. How can the adoption of renewable energy sources, such as wind and solar, impact carbon emissions from digital technology?