Public Libraries & AI

THE GALECIA GROUP
technology solutions for librarians

LIBRARY OF MICHIGAN

8. Environmental Impact

Series 2: AI Risks and Limitations

AI Energy Consumption

- Used in AI training phase and ongoing public usage

- Industry working on smaller, more energy-efficient AI models and AI hardware

- Industry reluctant to release specific figures

AI Water Consumption

- Data centers require clean water for cooling

- Some water recycled but lots is "consumed"

- Drinking water supplies have been affected

Comparisons and Predictions

- Global data center electricity use: 1.5%, rising to 2% in 2026 (comparable to Japan)
- US data center electricity use: 3%, rising to 8% by 2030
- AI companies acquiring nuclear power plants

- ChatGPT query averages 10x electricity consumption as Google query
- ChatGPT "session" may consume 1/2 liter of water

Coming up...

- Deep dive on AI Tools and Applications

Thanks for watching!