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Deep Dive Session on AI, ML and Robotics - Use Cases for Utilities

Generative AI Implementation in REC Limited

Presented By

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INTRODUCTION





REC Limited

- Maharatna NBFC under the Ministry of Power, Govt. of India.
- > Leading financier for power & infrastructure projects.
- Expanded scope: Power (Generation, Transmission, Distribution, Renewables) & Non-Power Infra (Roads, Metro, Airports, IT, etc.)
- REC has played a crucial role in government power sector schemes and now focuses on Generative AI adoption to enhance efficiency.
- **Key Government Partner**: Nodal agency for major power schemes (SAUBHAGAYA, DDUGJY, RDSS, PM Surya Ghar Muft Bijli Yojana)





Generative AI Implementation in REC

- Microsoft 365 Copilot adopted to automate operations
- Enhancing report generation, DPR evaluations, presentations & collaboration.
- > Improving efficiency, reducing costs & driving innovation
- > Supporting digital transformation in power sector initiatives.
- > Implementation of Govt. Schemes





The Impact of AI in REC

- > Automates repetitive tasks, saving time & costs.
- > Improves decision-making & operational efficiency.
- > Strengthens collaboration across teams & stakeholders.

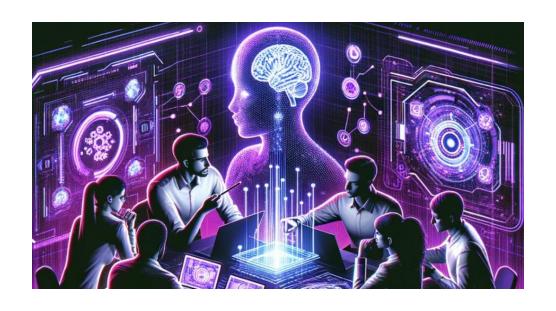
Al Implementation in REC





How REC Uses Microsoft 365 Copilot

- Automating reports & document creation.
- > Enhancing presentations & proposals.
- > Assisting in project evaluations.



AI Implementation in REC





Key Benefits

- Faster report generation.
- Streamlined project evaluation.
- Reduced manual effort in documentation.
- Improved internal & external communications.

Use Case – AI in DPR Evaluation





Transforming Decision-Making

- > Al automates Detailed Project Report (DPR) evaluation.
- > Reduces processing time, leading to faster approvals.
- > Ensures accuracy & consistency in assessments.



KEY TAKEAWAYS / RECOMMENDATIONS







Al drives efficiency & accuracy.

Reduces costs & enhances productivity.

- Strengthens collaboration & communication.
- Sets a model for Al adoption in CPSEs.

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India **SMART UTILITY** Week 2025

THANK YOU

For discussions/suggestions/queries email: isuw@isuw.in

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Links/References (If any)













