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India SMART UTILITY Week 2025

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

Generative AI Implementation in REC Limited

Presented By

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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.**

How REC Uses Microsoft 365 Copilot

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



Key Benefits

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

Transforming Decision-Making

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



KEY TAKEAWAYS / RECOMMENDATIONS



India
SMART UTILITY
Week 2025

ISGF
India Smart Grid Forum



AI drives efficiency & accuracy.



Reduces costs & enhances productivity.



Strengthens collaboration & communication.



Sets a model for AI adoption in CPSEs.

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असीमित ऊर्जा, अनन्त संभावनाएँ
Endless energy. Infinite possibilities.

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THANK YOU

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

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Links/References (If any)