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**DISTRIBUTION
UTILITY MEET
DUM 2023**

Session : Disaster Management and Climate Readiness of Utilities

Sustainability through Cloud

Presented By

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Distribution Utility Meet | 02 - 03 November 2023 | www.dumindia.in



INTRODUCTION



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AWS as your sustainability partner

"86% of companies record data manually in spreadsheets"
[\[Source:2021 BCG Survey\]](#)



Siloed Data Sources

- Data trapped in silos, fragmented, scattered
- Data capture is manual (mainly spreadsheets)

Resource Burden

- Time and resource intensive: Manual data capture and analysis in spreadsheets

Key Challenges

"25-30% estimated average error rate in emission measurements"
[\[Source;2023 BCG Survey\]](#)

Inconsistent Data Quality & Reliability

- Immature/incomplete Scope 3 accounting, Error prone
- Lack of data accuracy & standardized methods

Limited Insights

- Static point-in-time snapshots of performance insufficient for decarbonization planning

"Only 10% of companies are accounting for Scope 3 emissions comprehensively"
[\[Source:2023 BCG Survey\]](#)

ISV Partner Solutions



AWS Guidance for Builders

1. Carbon Accounting on AWS

Implementation Partners

2. Sustainability Insights Framework (SIF) on AWS



3. Utility Bill Processing on AWS

4. SAP Sustainability Data Lake on AWS

5. SAP Sustainability Control Tower on AWS

6. Carbon Data Lake on AWS*

Implementation Partners

**For Energy, Power & Utilities Sector*



A data-driven approach to sustainability strategy, enabled by cloud computing



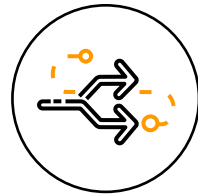
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Sustainability OF the cloud

Delivering a sustainable IT fleet – taking advantage of the cloud and AWS efficiency through migration



Sustainability THROUGH the cloud

Deploying cloud-based solutions and advisory support to accelerate customer sustainability objectives



Sustainability IN the cloud

Optimizing workloads on AWS with the Sustainability pillar of the Well-Architected Framework

AWS as your sustainability partner

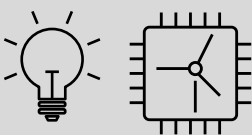
Sustainability THROUGH the cloud



Energy efficiency in AWS infrastructure

Well-Architected for sustainability

AWS Customer Carbon Footprint Tool



Energy intensity and clean energy

Energy monitoring & insights

Renewable data lake, Energy storage monitoring/ integration planning

Predict future energy usage Sustainable building management

EV charging management & observatory



Water use efficiency and quality, Sanitation

Water distribution monitoring and accounting

Water quality monitoring

Predict future water usage

Water bodies/ wet lands spread using geospatial analysis



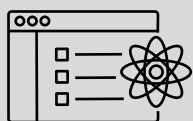
Air quality and waste management

Air quality monitoring

Emission monitoring & surveillance

Waste management

Green cover spread



Measure and track carbon footprint

Carbon Accounting

Sustainability Insights Framework

Utility bill processing (RA)

Amazon Sustainable Data Initiative



7 AFFORDABLE AND CLEAN ENERGY



Bosch Phantom – Energy monitoring and analytics platform

LogicLadder – TSC Energy & Sustainability accounting

Innvendt Insights – electrical asset monitoring

Ecolibrium SmartSense

ATSUYA – Energy monitoring & Sustainability accounting

Inergio iSolarSight

ChargeMOD - EV charging management

Elocity – EV charging management

Charzer

Electreefi

6 CLEAN WATER AND SANITATION



LogicLadder – TSC Water

Nimble vision - Ni The Water Saviour

WEGoT aqua - Track & Control Water Usage

Efftronics – Smart water management

Woloo – Sanitation

15 LIFE ON LAND



Kawa Space – Green cover and wet
land monitoring/ change detection

13 CLIMATE ACTION



Efftronics – Smart environment
solutions

Devic Earth – Air pollution control

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THANK YOU

For discussions/suggestions/queries email: dum@indiasmartgrid.org

www.isuw.in

[Links/References \(If any\)](#)

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