

SMART ENERGY METER



Done By:

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PROBLEM STATEMENT

Human Errors

- Forget to Turn off the Appliances
- We don't track detailed consumption data for individual appliances.
- Increasing Phantom Energy
- Increasing Carbon Footprint

Problem with Traditional Energy Meter

- Limited Data Visibility
- Manual Reading Required
- No Realtime Data
- No Remote Monitoring or Control
- Lack of Alerts for Anomalies
- Fixed Pricing Models

APPROACH

Data Acquisition and Data Processing

- We need to create a central processing unit That will collect and store data
- Render the Collected Data and Produce Useful Insights
- Identifying Anomalies reporting that to the User

Services Used :

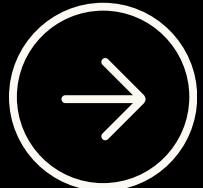
S3, Api Gateway, Lambda,DynamoDb

<http://completewebsite001.s3-website-us-east-1.amazonaws.com>





IDEA PHASE



ROI FOR THE ENDUSER

COS OF THE AWS INFRA

	Per Hour	Per Day	Per Month
Small to Medium Households			
For a Medium Scale Household it cost around 147/- Lets say Implementing the archetecture reduces the cost by 7.5% it saves around 262.50/month leaving a ROI of 81.28%	Lambda \$0.0004675	\$0.01122	\$0.3366
Office and Malls	Dynamodb \$0.00015	\$0.0036	\$0.858
For a Offices it would cost around 575/- Lets say Implementing the archetecture reduces the cost by 7.5% it saves around 11,250/month leaving a ROI of 1857.44%	S3 \$0.000063	\$0.0015	\$0.046
Factories and Machinery	Api Gateway \$0.0007	\$0.0168	\$0.504
For a Factories and Machinery it would cost around 2,0944/- , Reduces the cost by 7.5% it saves around 135,000/month leaving a ROI of 4483.5%	Total Cost \$0.00138	\$0.03312	\$1.7446 - Rupees 146/-



Ingoude Company

THANK YOU

for your time and attention

