



IAM Permissions Summary Matrix

AWS Energy Data Insights Platform | Complete Permission Mapping

✓ **Required** - Essential for function operation ○ **Optional** - Enhances functionality — **Not Used** - Not required by this function

Total Lambda Functions

5

Unique Permissions

23





AWS Services Used

6

Most Permissive

Chat Lambda

Service / Action	Lambda Authorizer	Chat Lambda	Renewable Orchestrator	Tool Lambdas	Petrophysics Calculator
Amazon Cognito					
cognito-idp:DescribeUserPool	✓	—	—	—	—
cognito-idp:DescribeUserPoolClient	✓	—	—	—	—
Amazon DynamoDB					
dynamodb:PutItem	—	✓	✓	—	—
dynamodb:GetItem	—	✓	✓	—	—

Service / Action	Lambda Authorizer	Chat Lambda	Renewable Orchestrator	Tool Lambdas	Petrophysics Calculator
dynamodb:Query	—	✓	✓	—	—
dynamodb:UpdateItem	—	✓	✓	—	—
 Amazon S3					
s3:GetObject	—	✓	✓	✓	✓
s3:PutObject	—	✓	✓	✓	○
s3:ListBucket	—	—	✓	—	—
 Amazon Bedrock					
bedrock:InvokeModel	—	✓	—	—	—
bedrock:InvokeModelWithResponseStream	—	○	—	—	—
 AWS Lambda					
lambda:InvokeFunction	—	✓	✓	—	—
 CloudWatch Logs					
logs:CreateLogGroup	✓	✓	✓	✓	✓

Service / Action	Lambda Authorizer	Chat Lambda	Renewable Orchestrator	Tool Lambdas	Petrophysics Calculator
logs:CreateLogStream	✓	✓	✓	✓	✓
logs:PutLogEvents	✓	✓	✓	✓	✓

Lambda Authorizer

5

permissions (all required)

Chat Lambda

15

permissions (14 required, 1 optional)

Renewable Orchestrator

12

permissions (all required)

Tool Lambdas

5

permissions (all required)

Petrophysics Calculator

6

permissions (5 required, 1 optional)