SMART MONITORING SYSTEM FOR DRY-TYPE TRANSFORMER
RENEWABLE ENERGY
RENEWABLE
ENERGY
VARIABLE
UNCERTAIN
RENEWABLE ENERGY VARIABLE UNCERTAIN BALANCE
SMART GRID
SMART GRID

BETTER

FORECASTING
SMART GRID

BETTER FORECASTING

DEMAND RESPONSE
SMART GRID

BETTER FORECASTING

DEMAND RESPONSE

INTEGRATED STORAGE
SMART GRID

BETTER FORECASTING

DEMAND RESPONSE

INTEGRATED STORAGE

ADVANCED ENERGY MANAGEMENT SYSTEM
SMART GRID

BETTER FORECASTING

INTEGRATED STORAGE

ADVANCED ENERGY MANAGEMENT SYSTEM

DEMAND RESPONSE

DYNAMIC LINE RATING
DYNAMIC LINE RATING
Smart Monitoring System for Dry-type Transformer
Smart Monitoring System for Dry-type Transformer

100% Loading Capability
Smart Monitoring System for Dry-type Transformer

100% Loading Capability

Remote Diagnosis
Smart Monitoring System for Dry-type Transformer

- 100% Loading Capability
- Remote Diagnosis
- Security
Smart Monitoring System for Dry-type Transformer

- 100% Loading Capability
- Remote Diagnosis
- Security
- Remained Lifetime
Smart Monitoring System for Dry-type Transformer

Sensors → Data analysis device → IIoT Hub → Control Systems and portable devices
## Analysis Techniques

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<td>▪ Loading Capability Analysis</td>
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*under development
Loading Capability Analysis

![Graph showing the relationship between Ambient Temperature (°C) and Optimal Loading Factor (p.u.). The graph includes points at X: -30, Y: 1.529; X: 0, Y: 1.389; X: 30, Y: 1.166; and X: 45, Y: 1.]
Smart Monitoring System for Dry-type Transformer

- Increase Lifetime
- Increase Productivity
- Decrease Maintenance Expenses
- Decrease Failure Risk