



Monitoreo remoto

Controla consumo energético a través del IOT

“Energy is one of the key operating expenses that we can reduce while delivering system upgrades that improve the customer shopping experience”



Mark Vanderhelm
Vice President of Energy. (2018)

With Smart energy control you can:



55%

Reduction In Power Consumption



50%

Up To 50% Less Management



60%

Up To 60% Reduction In TCO

78% of **OXXO** Stores have the **Smart Energy** Automation and Control System, which enables **savings** of 12% in **energy** use (FEMSA Sustainability Report, 2015)

SAVE SMART

WHAT WE DO

Through controllers we obtain data from different equipment in which energy consumption is monitored among other variables; the data is then sent to the Cloud for storage, processing and consumption.

FROM

- Cooling
- Illumination
- HVACs (Heat, Ventilation and Air Conditioner systems)

OBTAIN

- Predictive equipment maintenance
- Consumption alerts and consumption peaks
- Equipment replacement recommendations
- Behavior analysis of the equipment and its relationship with operators and consumers

TO

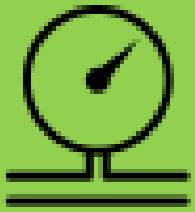
- Map out an actionable sustainability strategy
- Steer it toward “green” energy sources
- Audit energy bills
- Identify energy rebates and other incentives
- Analyze new regulations for compliance risks
- Optimizing energy but also to ensure optimal temperatures and storage conditions

Smart Retail Energy Remote Monitoring- How do we do it?



Device Connectivity and Management

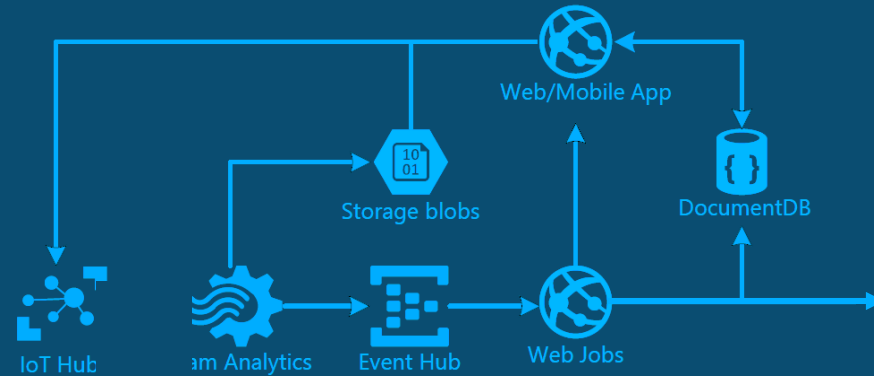
Sensors and Smart Gateway



Ethernet

Data Processing, Analytics and Management

Azure IOT Services



Business Connectivity

Operational Insights



Administrator



Power BI



Alerts



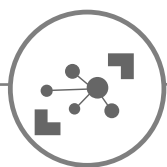
Insights



Actions



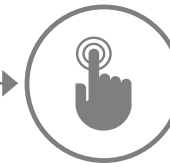
Things



Control



Insights



Action



**DIMENSION AND PLAN THE
SENSORIZATION OF THE STORE**

**INSTALL OR COMPLEMENT EXISTING
SENSORS**

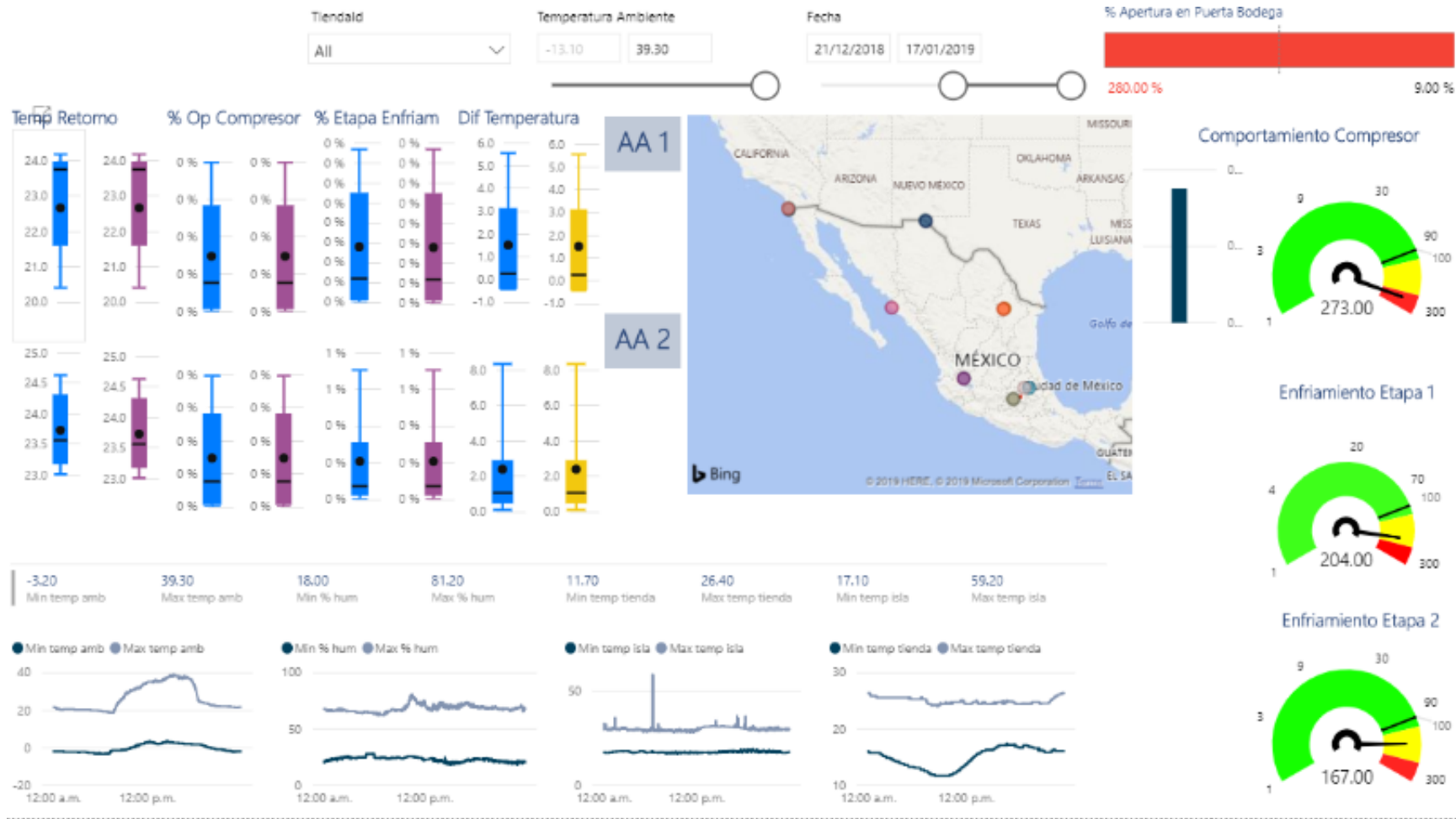
**STRUCTURE THE ARCHITECTURE IN
THE CLOUD**

**CREATE DASHBOARD TO CONSUME
DATA AND TAKE ACTIONS**

EACH STAGE GENERATES WHAT IS NECESSARY TO INTEGRATE THE INTELLIGENT STORE SERVICE AND CAN BE OFFERED MODULARLY:

- HARDWARE (SENSORIZATION FROM ZERO)
- HARDWARE (INTEGRATION OF EXISTING MONITORING SYSTEMS)
- COMMUNICATION (WIFI, CELLULAR, ETC.)
- CLOUD STORAGE (AZURE, AWS, GOOGLE)
- DEPLOYMENT OF INFORMATION (POWER BI OR CUSTOMER SYSTEMS)

BUSINESS INTELLIGENCE AS AN ENERGY EFFICIENCY TOOL



- Energy consumption
- Alerts for operation outside the operation parameter
- Savings estimates
- Filters by zones, types of clients or dates
- KPI and historic Data

NUESTROS SOCIOS ESTRATÉGICOS



ARROW ELECTRONICS



CLIENTES RECIENTES



Thank you!

FOR MORE INFORMATION
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