

TECHNICAL DAYS

**DIGITAL TRANSFORMATION**& INDUSTRIAL CYBERSECURITY
IN THE OIL&GAS INDUSTRY



JUNE, 24 & 25 Rio de Janeiro, Brazil



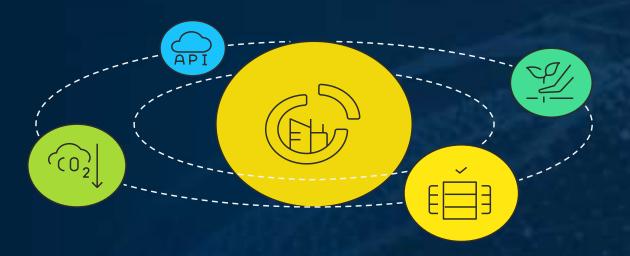
# **EP PETROECUADOR's Energy Transformation**

# Artificial Intelligence

Utilizing AI to optimize energy management

#### **Sustainability**

Promoting eco-friendly energy practices





#### **Decarbonization**

Reducing carbon emissions in energy operations

# Operational Efficiency

Enhancing performance through Al integration

## **Energy Efficiency Indicators 2010 - May 2025**



## **Machine Learning in Energy Management**

## Identify Historical Data

Gathering relevant historical data for analysis



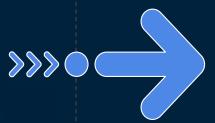
# **Predict Energy Consumption**

Forecasting future energy consumption



# Manage Energy Consumption

Overseeing energy use in assets













#### Model Complex Patterns

Using machine learning to model patterns



# Apply in Energy Efficiency

Implementing predictions to improve efficiency



### **Strategic Digital Transformation**

Our commitment is clear: improve energy performance and reduce GHG emissions. We consolidate digital transformation as a strategic axis. This includes sustainability and permanent innovation.

#### **Sustainable Energy Future**



It refers to a global system of energy production and consumption that meets the needs of the present without compromising the ability of future generations to meet their own needs.

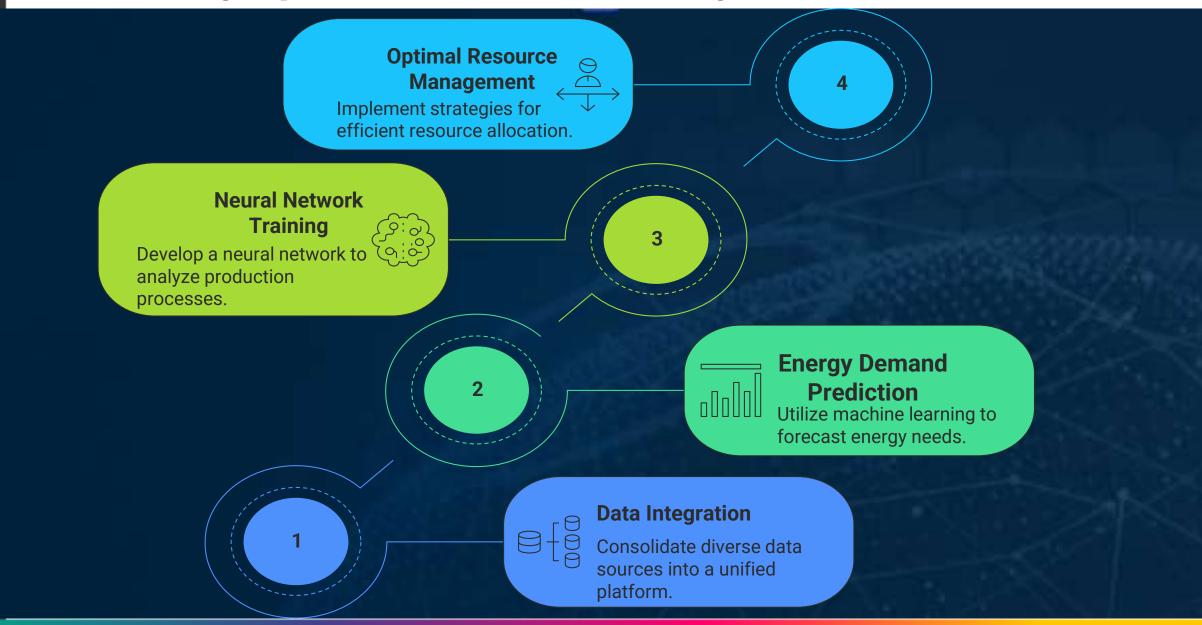
#### **Decarbonization**

Reducing carbon emissions through renewable energy sources

#### **Digital Transformation**

Enhancing energy efficiency and sustainability with technology

## **Achieving Optimal Resource Management**



### **Business Analytics Platform Architecture.**



### Unveiling Machine Learning's Role in Energy Management

