


# Artificial Intelligence (AI) for the Industrial Enterprises

## TUV India + VADICT USA = IOT Implementation



An IoT solution digitizes, automates and interconnects all company assets; co-relates with informational data (ERP, EMS, etc.) and contextual data (FOREX, weather, etc.); enriches the data with intelligent algorithms; and augments this information with TUV's deep-industry expertise to create business solutions.

We provide ready to use business solutions accessible from web and mobile for major industry verticals. These solutions leverage latest technologies trends in IoT, Smart Sensing, Data Science, Data Security, Cloud Computing combined with our deep industry expertise. This is built on top of Vadict Cloud Platform, and can be extended easily to meet the customs need.

### **Applicability:**

Our solution is applicable to mid to large size organizations for Energy and Environment Monitoring and Analysis. Furthermore this product can be leveraged for predictive analysis, environmental and sustainability compliance including reporting for GRI, ISO14064, ISO50001 and other ISO standards.

### **Benefits:**

Combination of operational data, informational and contextual data from all operating plants/facilities augmented with intelligent algorithms can provide organizations with unprecedented insights into their operating environment. We enable these insights to be compared with other industrial benchmarks to allow informed decision making for leaders of the organization.

### **Ready to use Solutions**

#### **► Sustainability Solution:**

Executives get real-time global view of Sustainability KPIs like Energy Intensity, Greenhouse gases, Electricity consumption, Waste water generated, Treated waste water, Solid waste generated, Energy (Fuel) saved due to use of solar plant, reduction in GHG emission etc. The KPIs can be tracked against specific targets. Targets can be set by management at plant/equipment level and rolled up to corporate level. The KPIs can be drilled down to site/plant/ equipment/device level. At plant level Managers can track the sustainability goals for their sites using detailed real-time information. Additionally, they can also run reports various analytical reports to make scientific decision making. They can also take help of remote experts by sharing the real time and historic information thereby reducing downtime.

### ► GRI Reporting Solution:

GRI Solution can be configured to meet any organization's GRI standards' reporting needs. This allows real-time view of entire organization's resource usage presented in the standardized GRI format. IoT Platform saves considerable time and effort that goes into collecting, and co-relating the input data; by digitizing and automating the data capture process. It enables Energy Management/Audit service providers to deliver value to their customers with fast turn-around; and cost-effectively.

### ► Solar Thermal Solution:

Solar Thermal solution can be used to monitor KPIs for the plant performance like Total Heat dispatched, Efficiency of the solar panel arrays, ROI, CO<sub>2</sub> Emission Savings. The solution enables additional intelligence by co-relating contextual data like wind-velocity and ambient temperature.

### ► Marginal Oil-field Solution:

This solution provides multiple dashboards catering to different audiences. Executive Dashboard provides summary of organization KPIs like Total Oil/Gas production, down times, losses and fields status on executive PC or mobile and update him all the time, any place. Site Operations Dashboard provides live information of KPIs like oil gas production, production/ flaring loss, total downtime etc. This enables quick and effective decisions and actions. Analytical Dashboard allows engineers to analyze and benchmark historical and live data of different parameters and enhance their capability for monitoring and optimization of operation.

### ► Solution to fit your needs:

Vadict platform is engineered to deliver custom solutions meeting your advanced needs with short turn-around times.

### Our Expertise

- Depth of engineering knowledge and expertise in calculation of KPIs, plant performance parameters
- Closely associated with energy efficiency improvement projects of industries
- Pool of experienced experts to conduct detailed electrical and thermal Audits in all types of industries e.g. Chemical and Petrochemical, Cement, Power, Tyres, Paper, Automobile, Textile and Textile Processing, Pesticides, Fertilizer, Paints, Steel, Engineering, Ceramic, Synthetic Fibers, Hotels and Commercial Buildings etc.
- Registered with BEE (Bureau of Energy Efficiency), MEDA (Maharashtra Energy Development Agency), GEDA (Gujarat Energy Development Agency), PCRA (Petroleum Conservation Research Association), EMC (Energy Management Centre - Kerala)

**TUVI** is acting as knowledge Partner with **VADICT USA** to provide the Artificial Intelligence (AI) for the Industrial Enterprises.

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