

SmartWatt Consulting & Integrated Energy Solutions



Service Offerings

2021

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SmartWatt An Emirati Company



Mr. Saeed Ali Ahmed Al Dhaheri
Chairman

“Demand-side based energy management solutions integrated with deployment of renewable power are some of the main drivers of global sustainable development and might be the solution to many of the world’s throbbing economic problems....”



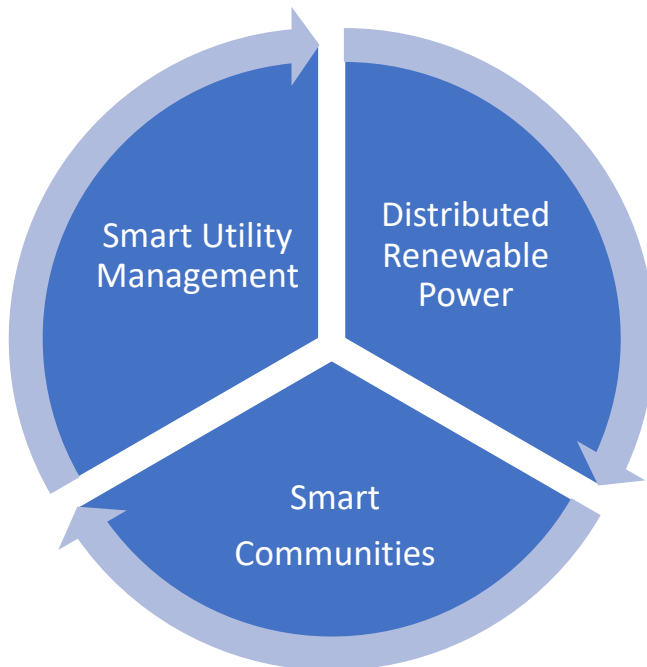
Mr. Omran Al Khoori
Board Member

We work with clients in the public sector to develop novel market solutions, and in the private sector to improve their business operations and performance from an energy point of view.



Dr. Sameh El Khatib
CEO

We support clients understand the business and regulatory threats and opportunities across the energy and utility spectrum, through our deep knowledge of the power sector and demand-side management.



Overview of SmartWatt Service Offerings

Energy Consulting



In today's world, organizations need to adapt to stringent energy regulations, energy price fluctuations, energy demand restrictions, etc. Our team of well qualified consultants will be able to help you with **energy strategy development, supply chain reviews, energy reporting, energy assessments.**

Energy Management & Analytics



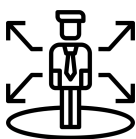
In today's world, businesses are becoming increasingly conscious of their incremental utility cost. Our **Energy Management & Analytics service** provides you with capabilities of informed decision making to manage your energy/ utility consumption and thereby **reduce the cost.** We also support organizations with the design and development of **ENMS in line with ISO 50001.**

Energy Performance Improvement



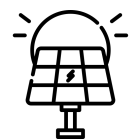
Energy efficiency is the new normal for any industry, commercial space and even for residential buildings. With increasing energy and utility expenditure, implementing energy efficiency solutions is an important decision that you need to take. Our solution helps you with identification of the right energy efficiency intervention and helps you with design, implementation and management of the intervention.

Energy Risk & Resilience



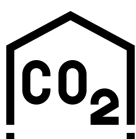
With changing regulation, climate change threats, supply chain uncertainty, businesses today are **exposed to immense risk.** Our consultants and experts will work with you to **identify threats** that may impact your business and develop **resilience measures for managing and adapting to these threats.**

Distributed Energy Solutions



With the cost of renewable energy going down, the distributed energy resources is becoming a disruptive trend of the P&U sector. Our team of experts along with our technology partners will design the **most appropriate cost optimized RE solution** for you. Our DER solution is **complemented with various financing models.**

Carbon Accounting & Management



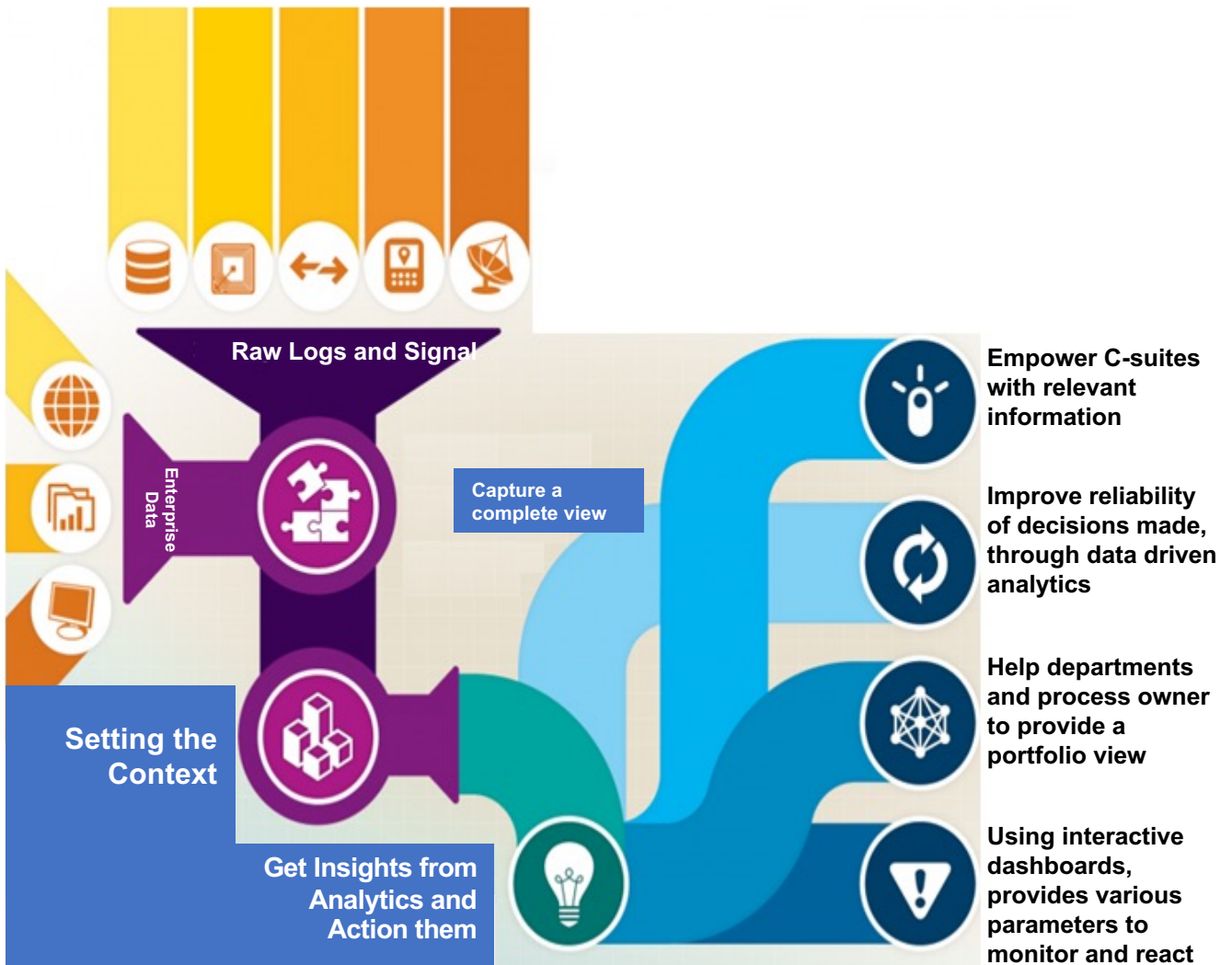
Carbon accounting and disclosure is becoming a requirement for most of the business operations. We can assist your EHS team to compute, report and analyze your Carbon/ GHG footprint at an organization level, across your supply chain, at a product/ service level. Through interactive dashboards, your EHS team can deliver appropriate message to your stakeholders on your environmental initiatives



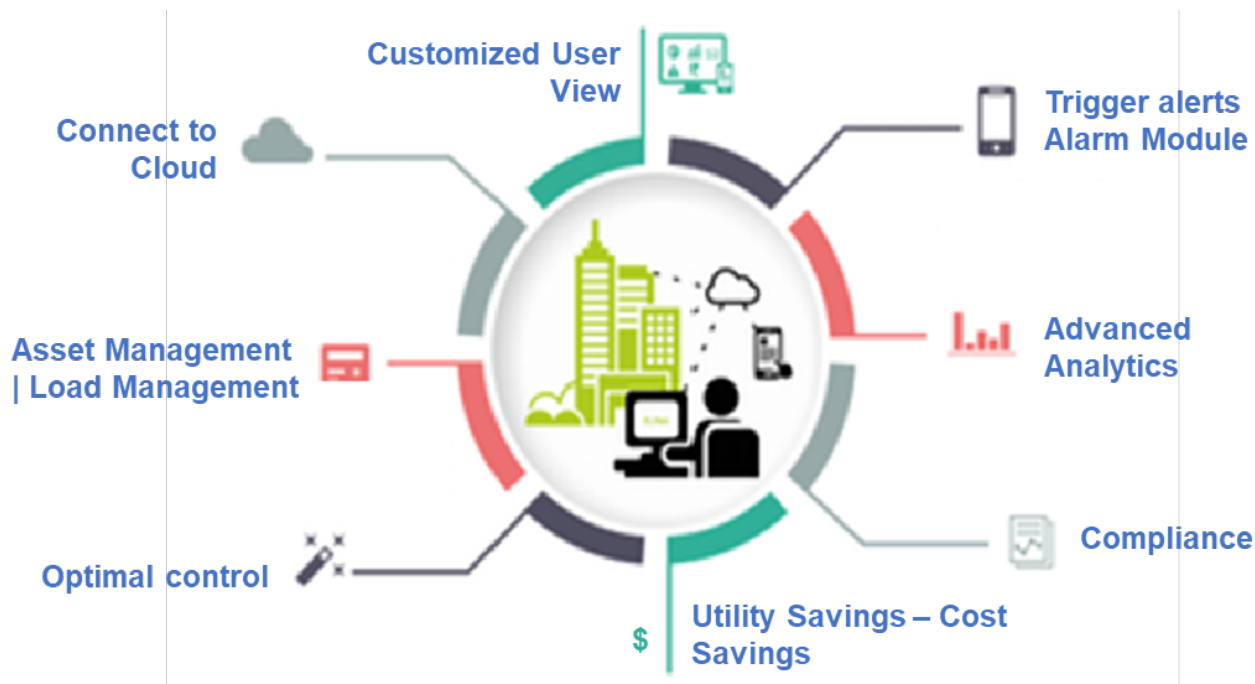
Beyond the six service offerings of SmartWatt listed before, we are developing a **Smart Utility Management Platform** which entails value creation through **Advanced Analytics** – a solution that can be used for **energy management, environment reporting, carbon accounting, safety tracking, asset management**

The SmartWatt – Smart Utility Application

Being able to pinpoint which systems and equipment have irregularities — to identify and prioritize cost-saving opportunities allows you to make smarter operating decisions. With technology driven solutions, iWatt (Smart Utility Application) will help you to completely understand why utility issues are happening and how to remedy these situations.



The Eight Characteristics of the Smart UMS



Customized User View

Customized dashboards, viewer screens and reports developed for each category of stakeholders and employees in the organization to deliver the right kind of message

Trigger alerts | Alarm Module

Alert MEP staff, process engineers, etc. of any impending issues with asset. Effectively manage asset through KPI based monitoring and tracking preventive and curative maintenance activities

Advanced Analytics| Optimization

Perform a data driven analysis of “What Happened”, “Why it Happened”, “What could happen” and ultimately arrive at actions plans to optimize the operation – reduce cost, enhance asset life, reduce carbon footprint, increase safety of operations, increase comfort index, etc.

Compliance | Track and Manage

Calculate, project, track emissions, environmental parameters, safety indexes, and any other KPI the organization deem fit for purpose of compliance and reporting

Utility Savings | Cost Savings

Spend less on your utility bills by optimizing energy use and energy generation from distributed assets

Optimal Control

Based on analytics either through automated control or through operator, configure appropriate set points for minimum energy use

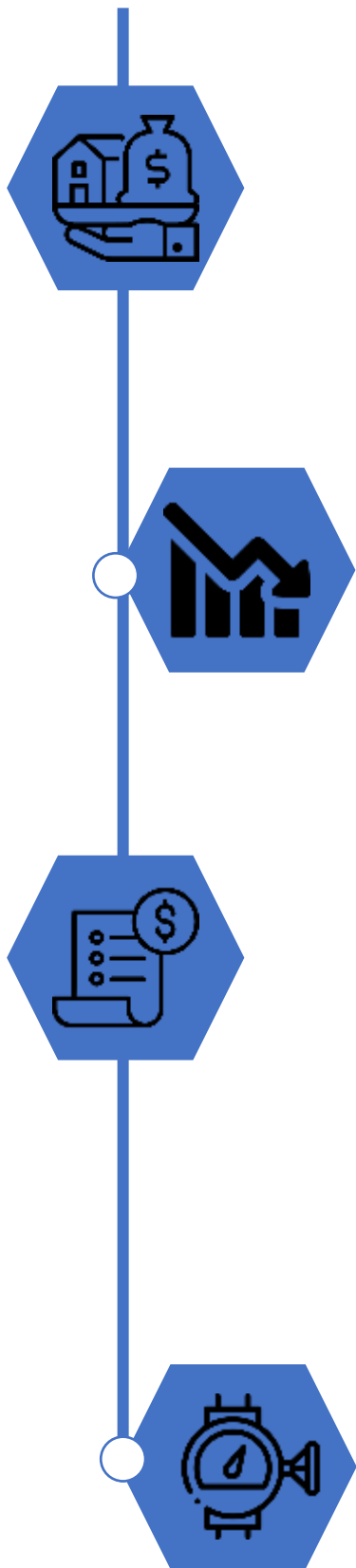
Asset Management | Load Management

Using load monitoring assess asset health, leading to enhance preventive maintenance. Instead of undertaking curative maintenance, take proactive measures to improve asset life and health

Connect to Cloud | Accessibility

Sit at your premises and monitor your portfolio of energy assets. A great tool for Energy Manager, CFOs, COOs to find out their asset usage and health

SmartWatt UMS Features and Advantages



Asset Management

- UMS enables the overlay of process/load utility performance with corrective and preventive maintenance
- This will ensure assets utility consumption is continuously optimized, thus reducing utility consumption and increasing the longevity of the assets. Thus asset longevity is enhanced

Loss Minimization

- Performance indicators will reveal if consumption patterns change against well set dynamic internal and external benchmarks that account for occupancy, ambient temperatures and other relevant factors.
- This minimizes avoidable losses attributed to faulty equipment or bad-usage or even leaks and automation

Bill Management

- Detailed interval data from metering
 - Proper meter placement and
 - Meter data analytics
-can significantly improve commercial buildings (and sites such as malls, hotels, airports, compounds) ability to measure the utility consumption of commercial tenants and bill them accordingly;
-This will initiate a process of recovery of more utility costs paid by commercial site owners to utility companies.

Identification of initiatives

- Utility Management Systems (UMS) will provide high quality load profiles enabling the identification of the most significant utility consuming processes and loads..
- This will allow for the development of well-informed implementation plans for these measures with accurate evaluation of payback periods against level of capex required for these interventions.

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