



# Energy Usage and Billing Information

## Overview

Smart meters are essential to efficient energy consumption and a key part of the smart grid infrastructure. Smart meters help consumers stay fully informed about their daily energy use and eliminate wasteful routines or get rid of inefficient appliances.

For utility companies, the real-time visibility into energy consumption process translates into accurate billing data and the ability to balance demand against supply via flexible pricing and other policies.

## Applicable Industries



Aerospace



Construction



Renewable Energy

## Applicable Functions



Maintenance

## Market Size

Estimate A      The global smart meters market is expected to grow from an estimated USD 12.79 Billion in 2017 to USD 19.98 Billion by 2022.

Source: [Marketsandmarkets](#)

Estimate B      According to Allied Market Research, the global smart meter data management market was valued at \$661.1 million in 2016, and is projected to reach \$1,896.3 million by 2023, growing at a CAGR of 16.4% from 2017 to 2023.

Source: [PR Newswire](#)

## User Viewpoint

Business Value

### How does this use case impact an organization's performance?

Smart metering systems are helping energy and utility companies meet these evolving demands and IoT smart home systems are providing homeowners with convenience, comfort and the ability to manage consumption. Smart energy solutions provide real time visibility into consumption and billing data helping consumers to conserve resources, while energy and utility companies are better able to balance production to meet actual demand reducing brown outs and other potential issues. These smart systems also enable operational efficiencies that require fewer service visits, reduced labor costs and improved cost efficiency for consumers and producers alike.

Accurate up-to-te-minute consumption data, more transparent billing processes, peak usage adaptation.

Key Performance Indicators

### How is the success of the system measured for users and for the business?

Customer satisfaction, billing accuracy.

Deployment Environment

### Where is the 'edge' of the solution deployed?

Smart home systems.



## IoT ONE Use Case



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