

## ContainerPower Energy Solutions

# Site Energy Digitalization

114KWh ESS



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RoHS



MSDS

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## Overview

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How will digitalization affect the future energy system?

Digitalization will both strengthen and challenge the future energy system. To maximize the energy-saving benefits of automation and intelligent technologies, we must also minimize their negative environmental impact through highly efficient data infrastructure.

What is energy digitalization?

The improved efficiency and effectiveness of the energy system will encourage the shift to greener energy sources and alter the energy landscape of the future. This editorial gives a background about energy digitalization in terms of the common technologies used, potential applications, barriers and challenges.

Why do energy systems need a digitalisation strategy?

Policy makers, business executives and other stakeholders increasingly face new and complex decisions, often with incomplete or imperfect information. Adding to this challenge is the extremely dynamic nature of energy systems, which are often built on large, long-lived physical infrastructure and assets. Digitalisation trends are truly astounding.

Will digitalised energy systems be the future?

Digitalised energy systems in the future may be able to identify who needs energy and deliver it at the right time, in the right place and at the lowest cost. But getting everything right will not be easy. Digitalisation is already improving the safety, productivity, accessibility and sustainability of energy systems.

How does the Commission promote the digitalisation of the energy system?

The Commission promotes the digitalisation of the energy system through research and innovation projects under Horizon Europe and in synergy with

other programmes, such as the Digital Europe Programme, the LIFE Clean Energy Transition sub-programme, Connecting Europe Facility and Cohesion Funds.

How can energy digitalization help build a net-zero future?

Whether to increase flexibility, drive down costs, or better integrate renewables into the energy mix, these digitalization trends are key to building an energy system built for a net-zero future. However, energy digitalization has also brought with it a host of new challenges for leaders to tackle head-on.

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