Meeting EU sustainability target by applying system engineering to Data Center life cycle management

FRA

Tatiana Fantaeva Data Centre & DIT Segment Leader Eaton EMEA - Electrical Sector

FHI UIT INFRA

HET KENNISEVENT OVER COMPUTERRUIMTES, DATACENTERS EN CLOUD COMPUTING

16 november 2023 1931 Congrescentrum 's-Hertogenbosch

Sustainability - from aspiration to regulation

Globally, data centres are estimated to be responsible for up to 3% of global electricity consumption European Commission, states the ICT accounts for approx. 7% of global electricity consumption, and is forecasting up to 20% by 2030

Green Deal

Energy Efficiency Directive (EED)

> Building Research Establishment Environmental Assessment Method (BREEAM)

Regulations

Data Centres Customer demand

Financial evaluation

Risk

Reputation



WWW.FHUNLZITINERA



Sustainability - from aspiration to regulation

EED published on 20 September 2023 reduce energy use in Europe by 11.7% by 2030

Reporting requirements:

- energy usage efficiency
- renewables energy usage
- water footprint
- effectiveness of carbon usage

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- effectiveness of cooling
- reuse of heat

Time to rethink our data centre life cycle management



Design, build, operate and replace for a sustainable future

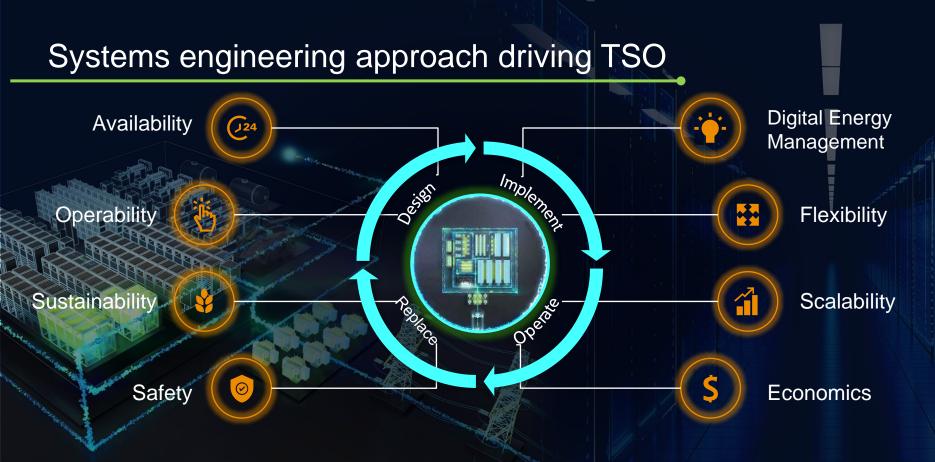




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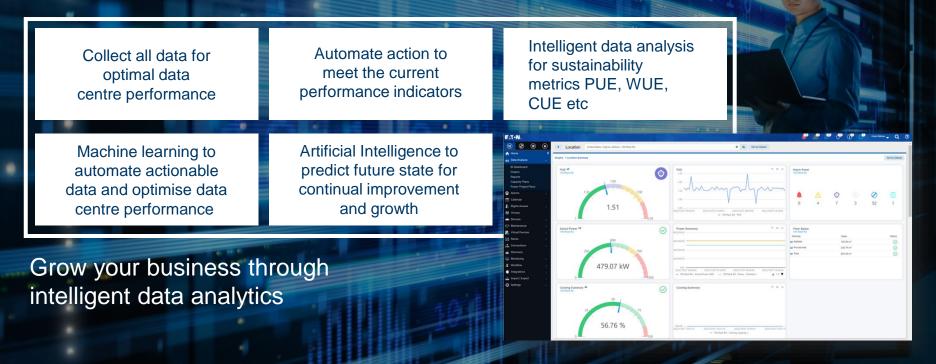






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Actionable data was never so important before

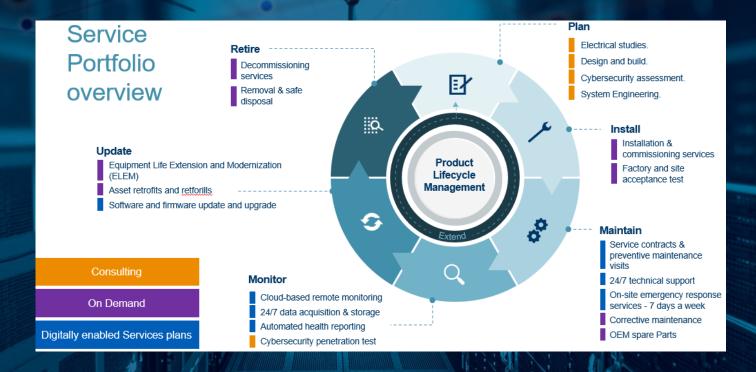








Whole Life Management Service







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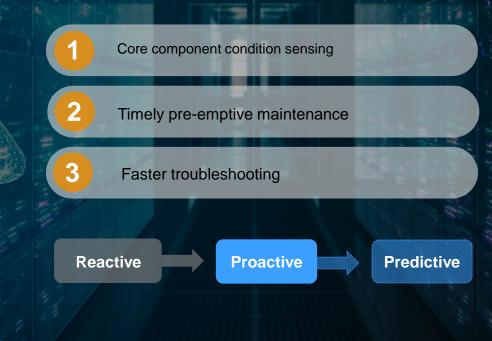
Component condition monitoring

Know your system to the core

Real-time data of system status



To avoid UPS load loss by providing insights on component condition and taking appropriate and timely service action







Energy efficiency as the key to save the planet

High Efficiency UPS (97.5% Online Mode) further reduces losses by 40% from industry standard

TO/FROM GR

EnergyAware

TO/FROM BATTERY

Eaton EnergyAware extends sustainability within and beyond the walls of the data centre Enabling and increasing the adoption of renewables

Utilisation and smarter use of existing assets to provide flexibility with no impact on primary function

Higher utilisaton rate of distribution infrastructure





100

Sustainability - Obligation or enabler for commercial success?

Energy savings remain central in sustainability as the cleanest energy is the one we do not consume!

Sustainability acts will also be enablers for commercial success! New revenue streams

Added customer value – matching sustainability targets

Faster speed to market

More financial options i.e. green financing

Lower operational expenses in environment with fluctuating energy prices



Powering Business Worldwide



www.eaton.com/sustainability

