The intersection of digital transformation and the energy transition

Strategies for managing energy flows

Strategy for managing Energy Flow

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There is no better time than now to be an **intelligent power management company**.

We make what matters work.
Sustainably.

To deliver on our commitment to reduce carbon emissions from our operations by at least **50 percent by 2030**, positioning us to achieve carbon neutrality, we will

Shift to a low-carbon, resource-efficient economy	Build/develop more sustainable communities	Comply with regulations and disclosure expectations

Uniting connected devices, data and insights efficiently solves critical power management challenges.

Delivering new intelligent power management solutions

Creating engaging customer experiences

Enabling the digital factories of the future

Boosting internal productivity

Our new **Brightlayer** platform enables us to do the same for you. Utilizing your own data to generate analytics, uncover insights and inform real-time decision-making regarding power management.

Flexible energy systems will power the future.

EVERYTHING AS A GRID is our approach to reinventing the way power is distributed, stored and consumed. With advanced technologies and digital intelligence, we are unlocking a low-carbon energy future for all.

EVERYTHING
AS A GRID

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EU 2030 goals and trends impacting you

GHG emissions reductions

55 % in **greenhouse gas emissions** compared to 1990 levels

Deployment of renewables

45 % of electricity coming from **renewable energy** sources by 2030

Electrical vehicle

48 M **passenger vehicles** by 2030

The electrification of our economies

The electrification of our economy is the most efficient way to decarbonize Europe, but this increases power demand and risk of grid congestion.

Transport

Buildings

Industry

Power demand increases by

65 %

over 2018-50

BloombergNEF Sector coupling study

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Europe is accelerating towards net zero targets

2016
Paris Climate Agreement:
UN agrees to limit global warming to less than 1.5 degrees Celsius, compared to pre-industrial levels.

2022
EU announces **REPowerEU** to speed up delivery of Fit-for-55 in response to world events and rising energy prices.

2028
Zero-Emission Buildings (ZEB) requirement will come into force to replace the Nearly-Zero Energy Buildings (NZEB) requirement. The low energy needs of ZEBs must be met with renewable energy.

2035
EU ban on sale of new petrol and diesel cars

2050

2021
COP 26: UN agrees emissions reduction must speed up for world to reach carbon net-zero by 2050. Europe's flagship is the **Fit-for-55** legislative package to drive delivery of the **European Green Deal by 2050**

2023
EPBD IV is agreed. It introduces Building Renovation Passports and requires pre-cabling for EV chargers for all parking spaces and installation of at least one charger.

2030
Minimum Energy Performance Standards (MEPS) for existing buildings: non-residential buildings must reach D class by 2030 (residential buildings to reach D by 2033)

Challenges you need to resolve

Regulation

Comply with regulation **but keep investment costs for doing this under control**
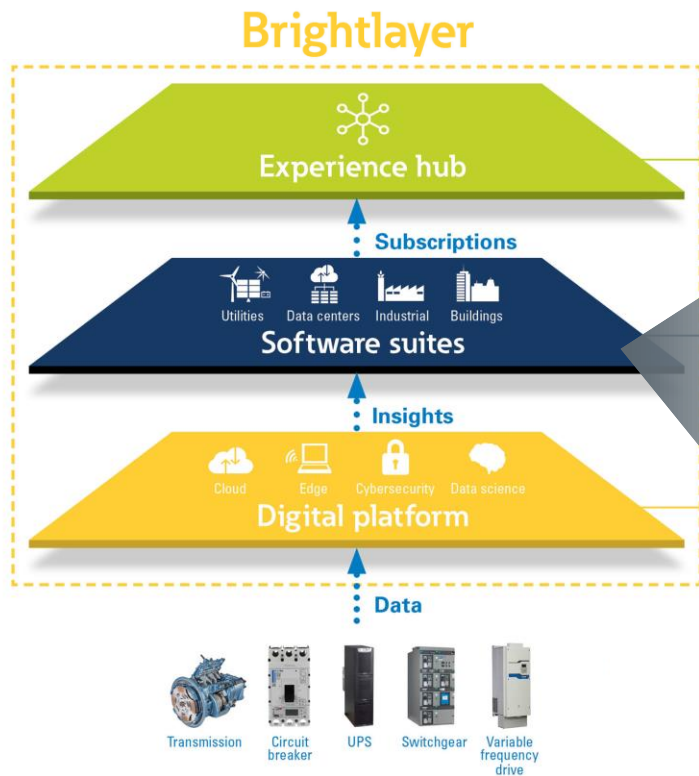
Profit

Solve power management challenges without a huge increase in **Capex,** minimize your energy bill and **Opex,** and, if possible, generate additional **revenue**

Sustainability Energy efficiency

Reduce the **carbon footprint** of your building

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Enabling intelligent assets and delivering secure insights in the cloud and at the edge

Cloud connectivity
Enable assets, data and software to be accessed via the cloud

Edge enablement
Enable assets at the edge with compute and connectivity capabilities

Cybersecurity
Secure assets, data and software from cyber risk

User experience
Standardize visual tools and design theme

Analytics
Power domain insights and analytics through data science

www.EATON.com/Brightl