

Eaton Electric SRL

Gabriel Tache

Energynomics – Cluj Napoca

Nov 2022





Energy, power and digital transformation

Key findings, all
segments



C-suite commitment

Only **50%** of enterprises consider themselves in the 'execution' phase of digital transformation today, compared to **47%** in consideration and **3%** with no digital strategy at all.

Digital talent & skills

74% said they are in the process of building a digitally skilled staff but have room to improve. Just **22%** described their in-house digital capabilities today as 'strong.'

Digital technology adoption

Similarly, **74%** of companies said they have adopted 'some' digital technologies, while just **22%** claimed 'broad' adoption (and **5%** no adoption at all).



Energy, power and digital transformation

Q: Which of the following are drivers of your organization's current or future digital transformation initiatives?
(n=1,001)

Energy Transition Goals Are a Critical Digital Transformation Driver



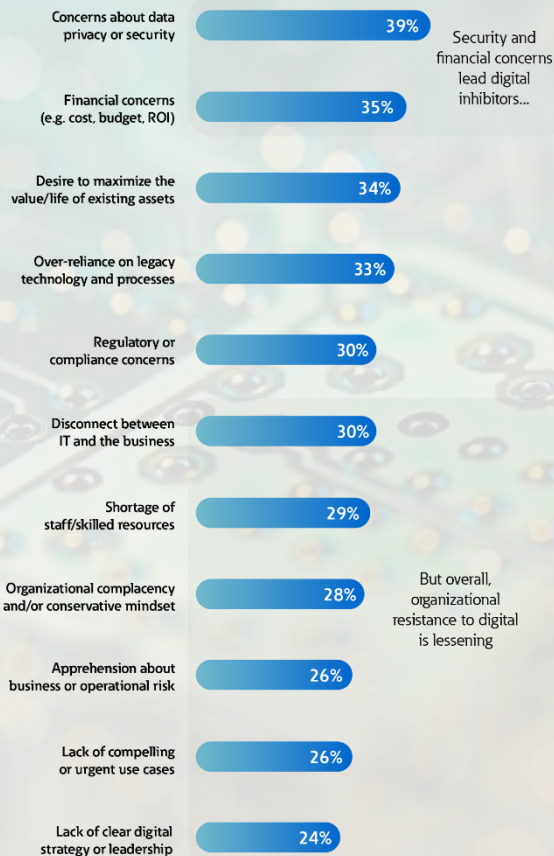


Energy, power and digital transformation

Q: Which of the following are challenges to the adoption of digital transformation within your organization?

n=1,001

Functional areas, attitudes are aligning to support digital initiatives



Powering Business Worldwide



Energy transition is coming, if not here already.

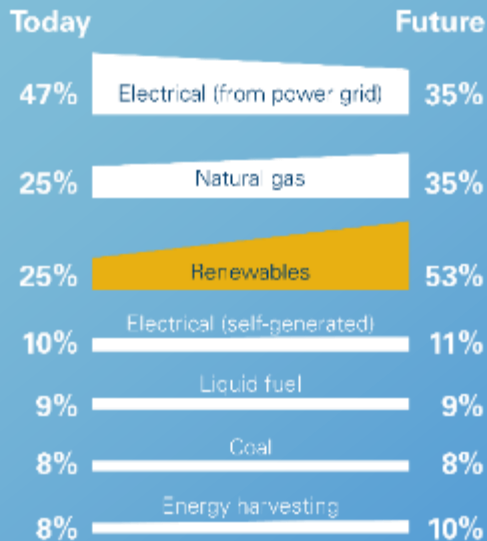
Q: Which of the following are your organization's current primary power sources? (n=750)

Q: Do you expect those primary power sources to change in the future? (n=750)

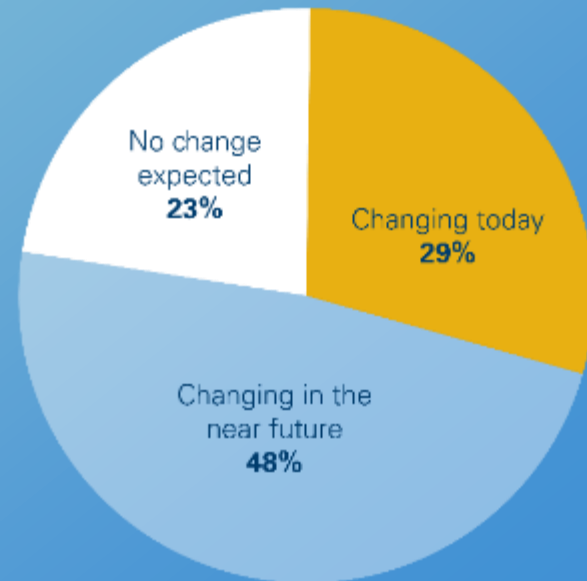
Q: Which of the following do you anticipate being your enterprise's primary power sources in the future? (n=576)

Three fourths of firms anticipate changing energy resources

Energy sources



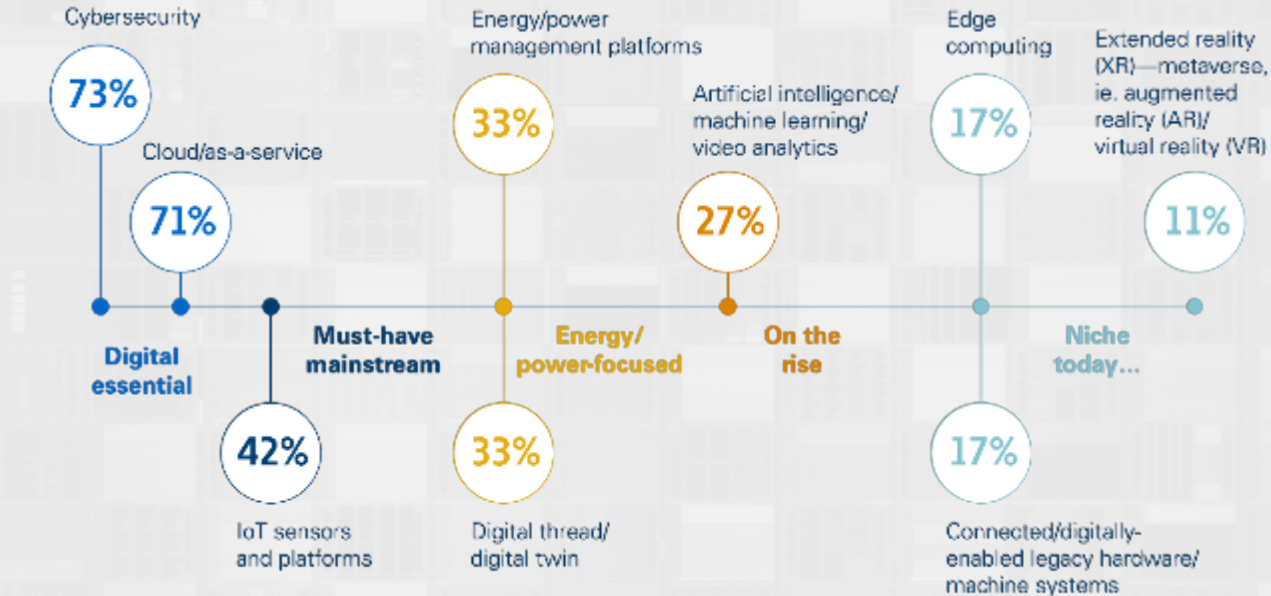
Energy transition plans





Digital change requires a new technology toolbox

Which of the following technologies, tools or applications have you deployed or plan to deploy in the next 12 months to support your organization's digital transformation? (n=1,001)

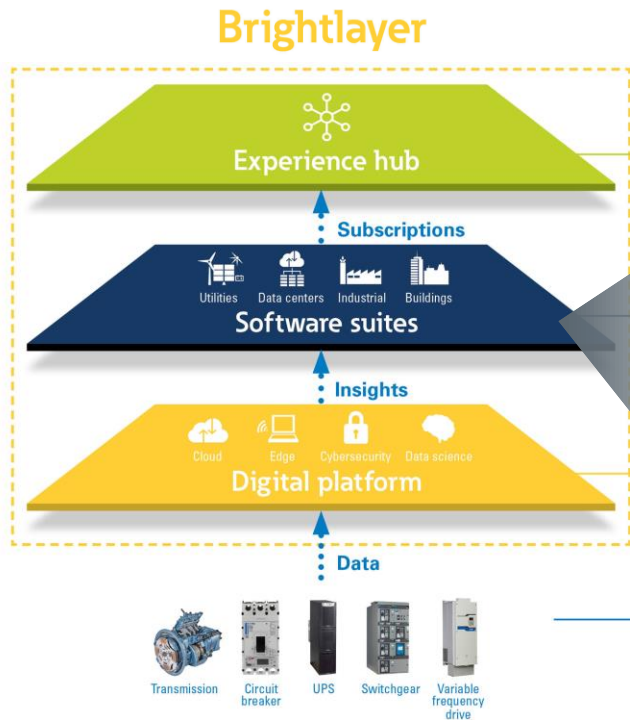


Digital Transformation

Top 10 takeaways

- Digital transformation in power-critical enterprises is real and growing, but it's still in the early stages.** Just 3% of enterprises have no digital strategy, while 47% are in consideration and 50% in execution.
- Advanced technologies and modern IT are central to digital transformation.** Top technology includes cloud infrastructure (deployed by 71% of digitally transforming enterprises) and Internet of Things (IoT) sensors/platforms (42%). That said, just 17% of firms have digitally enabled their legacy systems, a critical step for full digital transformation.
- Operational concerns drive digital efforts, but energy and power concerns are important to the story as well.** 44% percent of enterprises cited energy transition and greater power efficiency as a key digital transformation driver, while 43% touted ESG programs and reporting as critical.
- In addition to optimization goals, enterprises are facing a major energy transition, driven by governmental regulations, industry targets and societal change.** 77% percent of companies expect to transition away from their current power sources, and 29% are already underway. More than half (53%) of enterprises expect renewables to be their predominant energy source in the future.
- Most energy and power metrics tracked today are relatively simple, but they must become more sophisticated to contribute to digital transformation.** Top metrics that organizations are tracking today include relatively straightforward key performance indicators (KPIs) such as total energy consumption (measured by 51% of companies) and electrical safety (38%).
- Optimizing power and energy usage will require new metrics—enabled by new digital infrastructure, platforms and applications.** Less than a third of companies are tracking key sustainability and energy intelligence KPIs such as power usage effectiveness (PUE), carbon offset tracking and greenhouse emissions levels. Only 33% of enterprises have deployed intelligent energy/power management platforms capable of generating insights to track those numbers. That percentage must rise to fully address sustainability targets.
- Surprisingly, industrial firms are lagging in their awareness of the need for energy and power intelligence—creating significant competitive advantage for early adopters.** Just 24% of industrial respondents chose energy and power concerns as a top digital transformation driver. Those that prioritize it cited renewables adoption as their most critical energy goal.
- Utilities face significant challenges updating their infrastructure while meeting growing yet evolving service demands. The** energy transition has already come to the sector—respondents said that wind (chosen by 36% of respondents) and solar (28%) are significant energy sources even today. To continue that transition and meet demand will be a difficult task as 41% of utilities said they have concerns about outdated grid infrastructure.
- Power optimization and ESG reporting are critical issues for building owners and operators.** Being sustainable is the top goal for the sector, prioritized by 46% of respondents over resiliency and inhabitant comfort. 'Smart building' efforts targeting sustainability are already underway—76% of building respondents said they are deploying environmental monitoring digital use cases today, a first step toward broader energy management.
- Energy and power considerations are built into data center business and operational models.** That said, next-step goals for the sector include increasing use of renewables (cited by 50% of data center owners), improving energy storage (47%) and making money selling generated power back to the grid (34%). These steps further leverage the energy transition as a key sector change agent.

Enabling intelligent assets and delivering secure insights in the cloud & 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



Powering Business Worldwide

© 2022 Eaton. All rights reserved.

www.EATON.com/Brightlayer

EATON

Powering Business Worldwide