



Acceleration pathways

post COP28

Above and beyond COP28

COP28 ended with positive outcomes: a consensus to **triple renewables and double energy efficiency** all the while transitioning away from fossil fuels, as well as more funding for loss and damage compensation, climate innovation, cross-border and inter-generational collaboration - overall contributing to **sustainable social and economic development**.

That said, I was already very much energized by the never-seen before mobilization of thousands of **companies, start-ups, individuals and leaders**, dreamers and do-ers teaming up in parallel of negotiations. On the ground and online, our purpose was to share experiences, expertise, ideas and concrete solutions **to accelerate action for a faster and fairer transition**.

Impact alliances keep growing from our **collective intelligence and power to act**, to decarbonize our products, services and processes; to build the infrastructure for sustainable energy and way of life; to include everyone, from cities to rural areas and across value chains on the journey.

It's with a triple sense of urgency, optimism and commitment, that I would like to share **3 concrete acceleration pathways** we can embark on, right now.

- 1** We have to deploy existing energy-demand technologies to effectively unleash sustainable (and profitable) outcomes on the very short-term – all the while continuing to work on the long-haul energy supply decarbonization efforts.
- 2** We must prepare our grids, buildings, data centers, industries and supply chains to welcome more renewables, more automation and electrification – enabled by digitization and data at the core.
- 3** We need to enable everyone to contribute in these massive undertakings ahead, with the right values and skills – those that will empower ourselves, our people, partners and youth to help deliver on all of the above.

Our actions do not connect only in meaning. They connect on impact. Not in 2050. Not in 2030, but today. Lots to do, no time to waste. Let's make an impact, together.

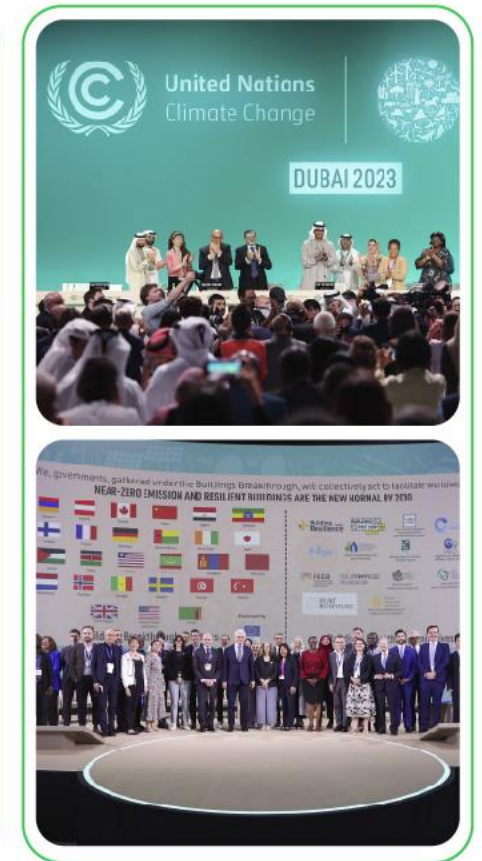


Gilles Vermot Desroches
Chief Corporate Citizenship Officer
Schneider Electric

Doubling the rate of energy efficiency by 2030

COP28 key take aways

- COP28 was marked by the publication of the Global Stocktake, a comprehensive evaluation of progress against climate goals with the signing of the UAE consensus on December 13, a plan to close gaps with the overarching aim to keep the global temperature limit of 1.5°C within reach.
- In this historical [agreement on the stocktake](#), Parties are called to act for a "deep, rapid and sustained reduction in GHG emissions in line with 1.5 °C pathways" in particular the urge to double the global average annual rate of energy efficiency improvements by 2030.
- This call to action was initially part of the [Global Renewables and Energy Efficiency Pledge](#) released on December 2, where 123 countries committed to collectively doubling the rate from around 2% to over 4% annually until 2030.
- The pledge is also in line with the [Global Decarbonization Accelerator \(GDA\)](#) which outlines a comprehensive plan for system wide change, addressing the demand and the supply of energy at the same time.
- On December 6, the [Buildings Breakthrough](#) initiative was also announced with 28 countries to date, aligned to an affirmed ambition to enable near-zero emissions and resilient buildings by 2030, with a focus on energy efficiency goals.

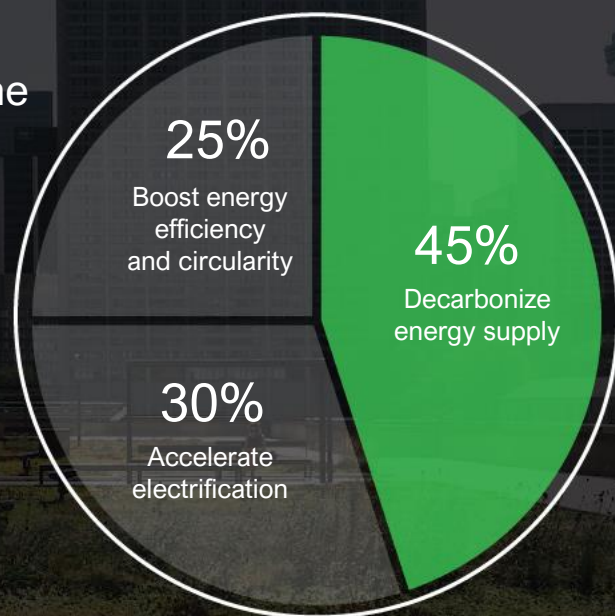


Accelerating the adoption of energy efficient solutions

With solutions that exist today

Energy efficiency at the core of our impact today and tomorrow

We can save 10-15Gt of CO₂ emissions annually



Source: [Schneider Electric™ Sustainability Research Institute](#)

2/3 Energy is either [lost or wasted](#). Only 1/3 energy goes to end users.

30% Energy savings in buildings deliver [ROI within ~5 years](#)

70%

[CO₂ emissions reduction](#) can be achieved using existing technologies



Buildings

Technologies available today (heating electrification, active energy efficiency solutions) have a potential to lower carbon emissions by 2030, while generating [up to 70% energy savings](#) for building dwellers.



Industry

Automation and digital tools can optimize the processes, productivity, performance, and energy usage. Using a combination of such tools can result in [20% reduction](#) in electrical, instrument, and control CapEx and [10% improvement](#) in process energy usage.



Mobility

The bulk of energy & CO₂ reduction comes from modal shifts (TaaS, autonomous vehicles, public transport), with electrification and efficiency playing a complementary role (3x efficiency on EVs).

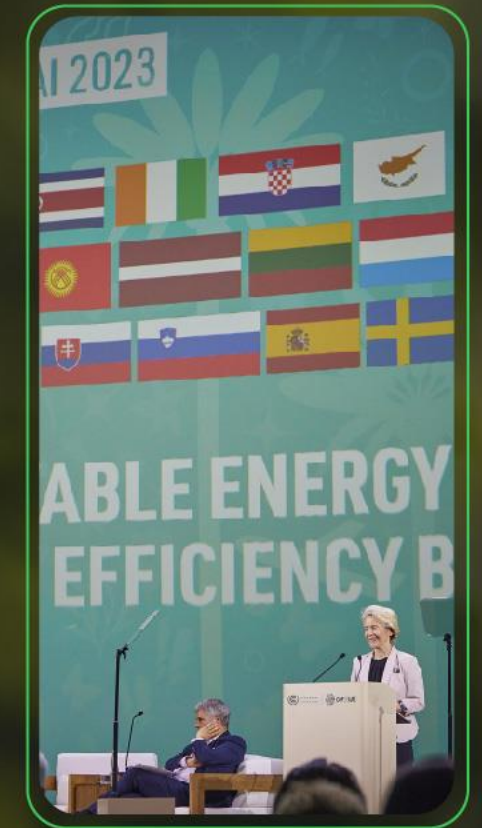
Tripling renewables and nuclear energy capacity

COP28 key take aways

The COP28 [consensus](#) was also marked by the commitment to meet the need for three times more renewable energy capacity (at least 11,000 GWh) by 2030 to limit warming to 1.5°C.

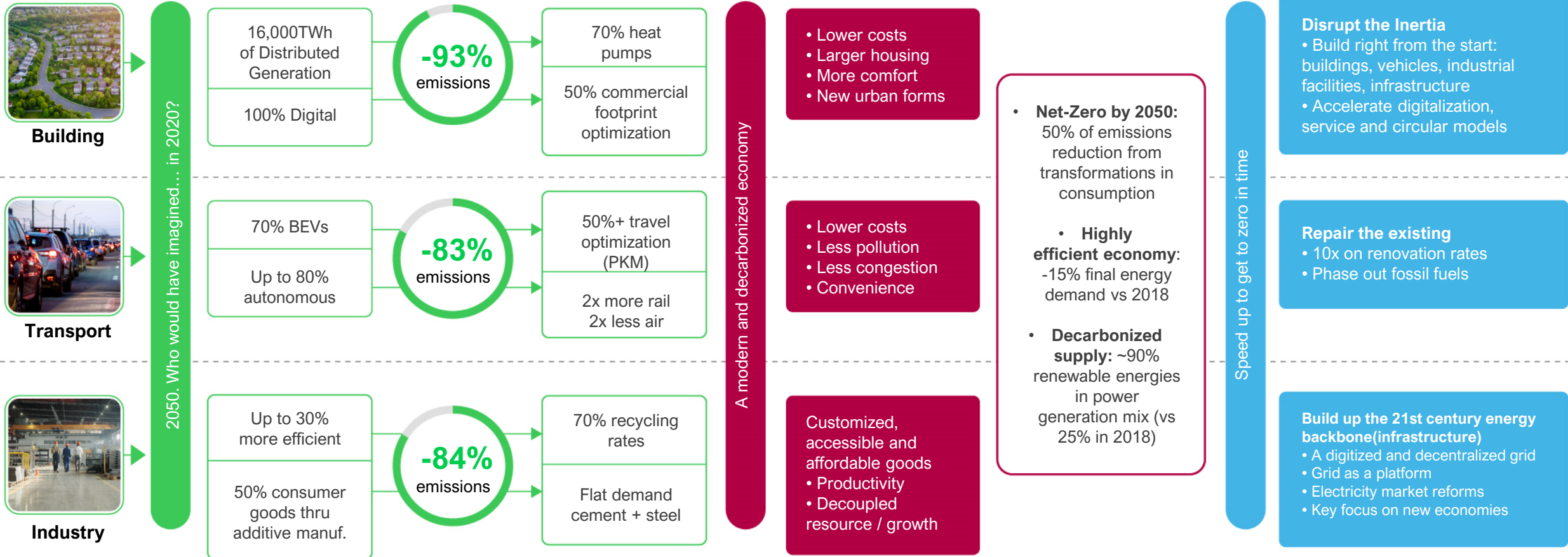
On top of the [Global Renewables and Energy Efficiency Pledge](#) and [Global Decarbonization Accelerator \(GDA\)](#) initiatives, pledges - such as the [UAE Hydrogen Declaration of Intent](#), with 39 countries endorsing a global hydrogen certification standard and the call of 22 countries to support [tripling nuclear energy](#) capacity globally by 2050 – all aim to achieve that.

With a notable step forward in the alignment to work together towards the transitioning of fossil fuels out of the energy supply side, arises the question of readiness - how to prepare our grids, buildings, industries and life to unlock the full potential of a renewables landscape?



Anticipating the needs of a sustainable energy landscape

With the transformation of energy demand



Source: [Schneider Electric™ Sustainability Research Institute](#)

Anticipating the needs of a sustainable energy landscape

With the transformation of energy demand

6x

More electricity will be generated from solar and wind by 2040

2x

Increase in power consumption of data centers by 2028 due to increased digitization, including growth in the use of Artificial Intelligence



Microgrid systems
Integrated into facilities can optimize energy generation, storage, and consumption alongside the grid.



Power Purchase Agreements (PPAs)
can replace carbon-based energy and control energy costs.



Virtual PPAs
allow purchasing renewable energy from other areas for the lowest cost.



Pooling electricity demand
by organizations for greater buying power and leverage, particularly when reducing supplier emissions.

Bridging sustainability and progress for all

COP28 key take aways

- Beyond unprecedented commitments on concerted climate action, COP28 encompassed a number of advancements to bring along more regions, communities and people in the journey ahead.
- Starting with the establishment of the [Loss and Damage Fund](#), hosted by World Bank for the coming 4 years in support to the most vulnerable countries which will be majorly impacted by climate change.
- Additionally, the [International Youth Climate Program](#) and the [Youth Climate Champion](#) were introduced to amplify voices of people under 35, with here again an emphasis on empowering youth from the most vulnerable communities.
- In the [Gender-Responsive Just Transitions & Climate Action Partnership](#) launched and endorsed by over 60 countries, contributors aligned to make progress in ways of inclusion.
- Finally, considering that 56% of global population lives in rural area, the [Declaration on Sustainable Agriculture, Resilient Food Systems, and Climate Action](#) signed by over 130 countries will help adapt and transform food systems land use targets in Nationally Determined Contributions (NDCs) and National Adaptation Plans (NAPs) by 2025.



Empowering and enabling ecosystem stakeholders

With wide-spread engagement initiatives

733 Million People still lack [access to electricity](#). Limiting education, jobs and well-being opportunities

80% Of those live in [rural areas](#)

2.8 M [Electricians gap](#) across regions

139 Million

New jobs to be created out of the [energy transition](#)



Upskilling

Employees, partners, youth to be part of the solution, especially with digital and energy management skill that are crucial for the future.



Inclusion

Promoting diversity and gender inclusivity, for equitable participation and leadership from education to professional roles.



Supply chain engagement

Supporting supply partners across the entire value chain to embark on a sustainability journey with concrete skills and programs of engagement that make a difference.



Local impact

Empowering each and every individual to understand what is at stake and can be done at work, at home and with other, in order to act and contribute actively to our common ambition.

Where to next?

Climate action collaboration opportunities



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