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SPOTLIGHT

# European Utilities & Renewables

Tipping towards a green future

The energy crisis has put European renewables in the spotlight ...

...as governments set increasingly ambitious goals and supportive policies

Europe is on track to exceed its 2030 wind and solar targets, in our view

This is a redacted Free to View version of a report with the same title published on 14 March 2023. Please contact your HSBC representative or email AskResearch@hsbc.com for more information.



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## **Europe's renewable ambitions**

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### We forecast US renewables additions to rise to 120GW by 2030 to decarbonise power and to be sustained at these levels via electricity demand growth and green hydrogen production

Source: BNEF, HSBC analysis and estimates

Renewables: A competitive frenzy

Renewables time and again exceed expectations. The gap between forecaster expectations, such as the IEA, and actual development has widened and renewables outperformed expectations more than usual in 2022. The idea of land and pricing barriers has been put to the side. In fact, there is an abundance of cheap and green energy, redefining fundamentally how to think about energy. Today, zero carbon power is a question of system balance (security of supply), execution and more than anything competition.

The clean energy disruption in power is close to the tipping point of its exponential growth along the S-Curve. At the tipping point all future growth is provided by the disrupting technology, i.e. renewables, and in the mass rollout that follows, **renewables as the disruptor quickly rise to dominance.** The pace of the disruption is always set by the disruptor and external shocks such as COVID-19 or Russia's invasion of Ukraine inadvertently only speed up the disruption.

This is not to say that we expect every segment and market to proceed smoothly and perfectly land on target every year. While the overall direction of travel is an acceleration there will be at times markets and segments that are facing challenges. There is also fierce competition as the distributed as well as the disruptive nature of solar and wind has generated many new players and fundamentally changed the competitive landscape of power generation. New players in power production include homeowners, companies, communal projects, small and mid-size independent power producers, financial investors as well as oil & gas companies. **Utilities are at the forefront of driving the renewables disruption in new markets**, such as the US. **Nevertheless, utilities are also being disrupted and look set to lose generation market share in home markets**.

Europe's adaptation to lower Russian pipeline gas deliveries has been successful beyond most forecasters' expectations and confidence has increased that Europe can manage these transition years. This sets the scene for elevated (but not extreme) electricity prices with lower volatility. Generation including renewables will continue to benefit from higher prices for some time via hedging (even after windfall taxes).

Electricity networks are the green, often inflation protected, backbone of the energy transition and investments need to step up almost as much as renewables to accommodate growing electricity demand, renewables, to modernise and digitalise grids and to increase resilience.

Pricing environment: A tailwind

Electricity grids are a green growth haven..... assuming the regulatory (and political) environment is favourable



Gas network role emerging

The outlook for gas network operators is very different from electricity as the role of the transported commodity – natural gas – will be much reduced in Europe's net zero ambitions Gaseous fuels overall (from natural gas to hydrogen) will lose out to electric solutions in building heating & cooling and 2022 has likely tilted the balance in favour of electricity. Electric solutions will dominate building cooling/heating, especially in warm regions, such as parts of France, Spain and large parts of Italy, rendering (parts of) gas distribution networks obsolete.

Overall, the outlook for gas transmission networks to transition to hydrogen is better than for gas distribution networks. Nevertheless, the role is still emerging. How large are short- and medium-term investments opportunities for gas network operators due to security of supply concerns (e.g., storage, LNG, better European interconnectivity)? Can industrial hydrogen clusters or power users be served by regional networks or local production? Will there be hydrogen imports from North Africa or other neighbours via pipelines at scale?

This is a redacted Free to View version of a report with the same title that was published on 14 March 2023. The full note contains an in-depth look at the European Utilities sector, including our views on our entire European Utilities coverage universe, a discussion of our five-step company framework, a discussion of ESG aspects for the sector and our forecasts for renewable energy production in Europe. Please contact your HSBC representative or email *AskResearch@hsbc.com* for more information.



## **Energy Transition: rise of renewables**

#### Powering net zero: we identify key factors that will differentiate sector winners





Europe electricity demand and CO<sub>2</sub> emissions (Mt)





## **Disclosure appendix**

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