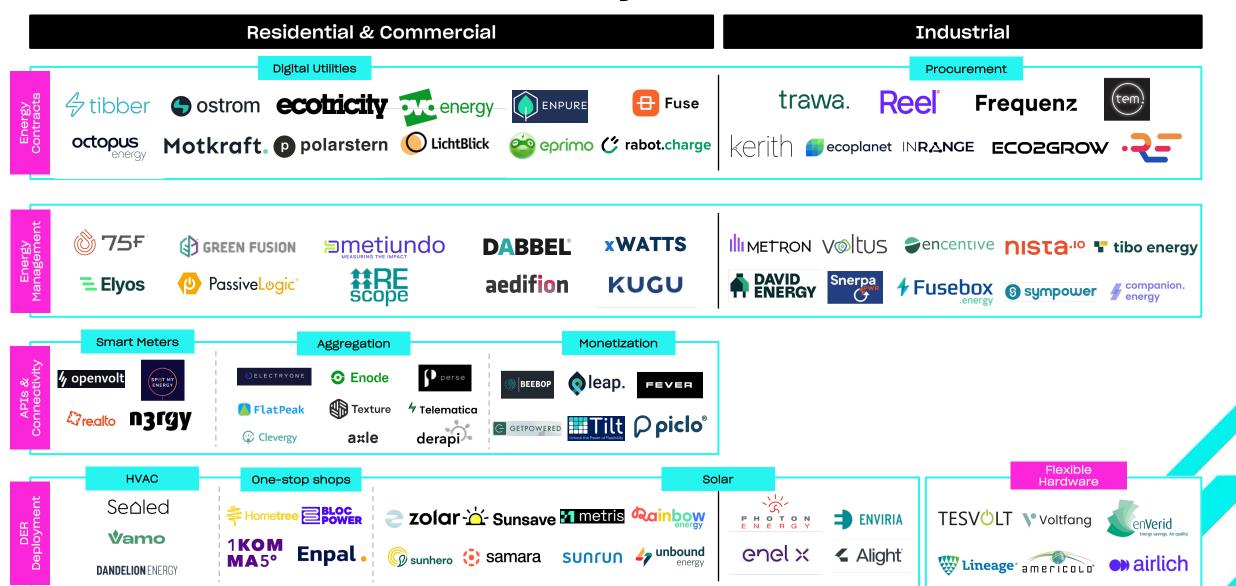
Behind-the-Meter Flexibility





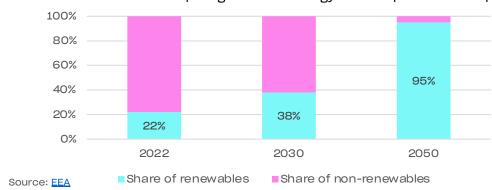
BEHIND-THE-METER FLEXIBILITY CHEAT SHEET

The decarbonisation of the energy system is bringing about radical transformation, including intermittent electricity production patterns. In parallel, the demand-side replacement of fossil-fuelled processes (notably in mobility and heat) by electrical ones and the decentralisation of energy production are bringing new challenges yet adjacent opportunities to manage intermittency, with the help of behind-the-meter assets. Startups spanning the entire spectrum, encompassing hardware, software, IoT, and deployment strategies, are serving as catalysts for behind-the-meter flexibility.

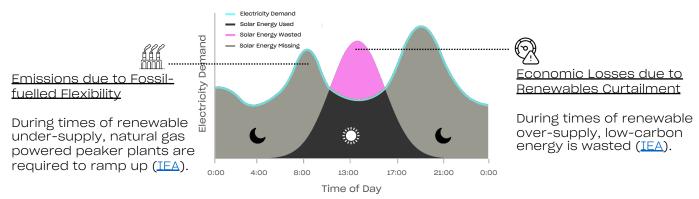
The Impact Challenge

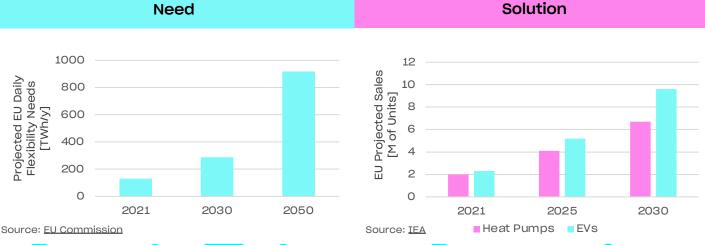
The electricity grid is a highly complex system in which electricity supply (generation) and demand (consumption) must constantly be kept in balance. In the past, this has been achieved by ramping fossil fuel power plants up and down ("dispatching") to match consumption. In an energy system which relies on intermittent ("non-dispatchable") renewable electricity generation, this dependency is reversed and consumption must be modulated to match supply, hence the necessity for demand-side (behind-the-meter) flexibility.

The % of renewables in Europe's gross final energy consumption will sharply increase...



creating an electricity supply-demand mismatch, and thus a two-fold problem.





The Opportunity Tailwinds & Trends **Tech Plays** Massive subsidies for the deployment of flexible 6 **APIs & Connectivity** assets in the IRA & the EU Green Deal (NRE) Increasing energy prices & price volatility, Flexible Hardware which creates an incentive to shift time of **Energy Contracts** consumption (Statista) Increasing smart meter penetration (EU 4 **DER Deployment** Commission) Introduction of dynamic/time-of-use electricity **Energy Management** tariffs (Council of the EU) See our f<mark>ull mark</mark>et map here. Startups to Watch **TESVOLT** axle Enode T tibo energy C rabot.charge **三** Elyos



Hometree



Texture

y openvolt



Reel

encentive



trawa. **∱**Fusebox