

Three key features of electro-industrial technology

Feature

Example

Efficiency: Machines avoid combustion losses and deliver precise, real-time control.

Thermal batteries: Convert low-cost electricity into long-duration, high-temperature heat with 90%–99% efficiency.

Scalability: Components ride predictable experience curves (Wright's Law), so costs fall as production volumes rise.

Solar photovoltaic: Solar module prices dropped 90% between 2010 and 2020 while installed capacity rose by 1,600% from 40 to 710 GW.

Digitalization (hardware as software): Once electrified, performance is increasingly software-defined and upgradable.

Heat pumps: In September 2025, Quilt announced that a single software/firmware update increased the heating and cooling performance of installed units by over 20%.