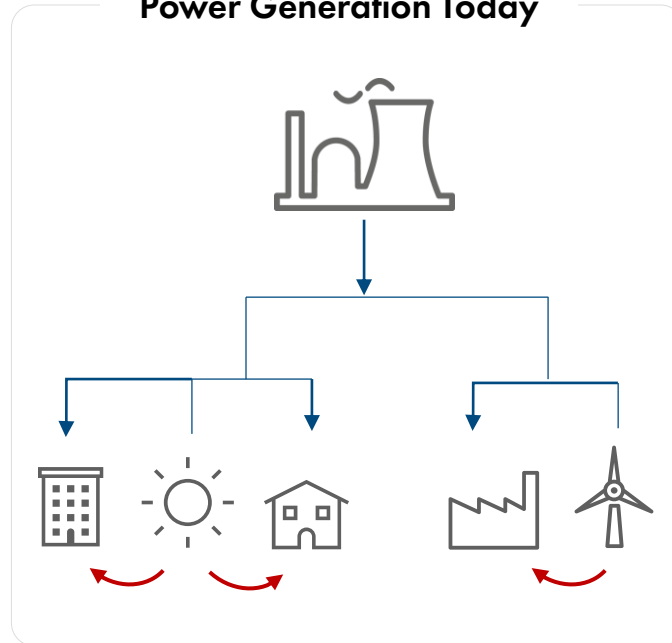


The Decentralised World of Energy Requires a Comprehensive Understanding of the System

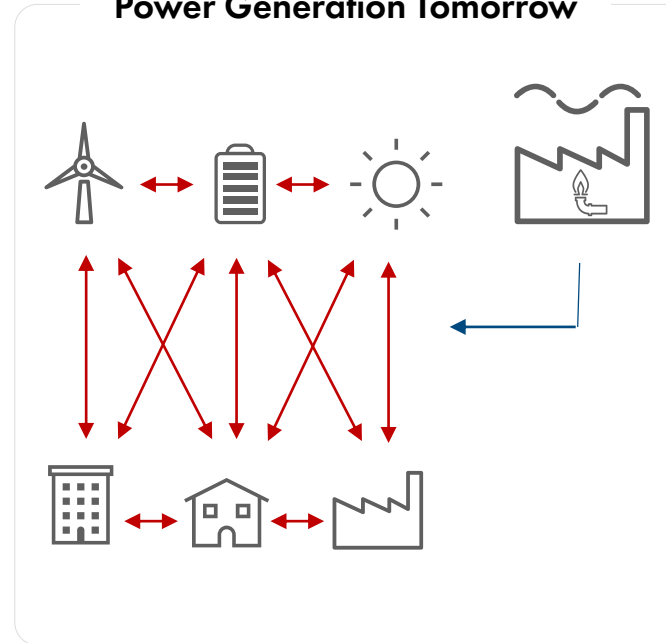


Renewable energies and storage systems form the backbone of future energy supply. In order to integrate them seamlessly and secure a reliable power supply, a comprehensive understanding of the system is essential.

Power Generation Today

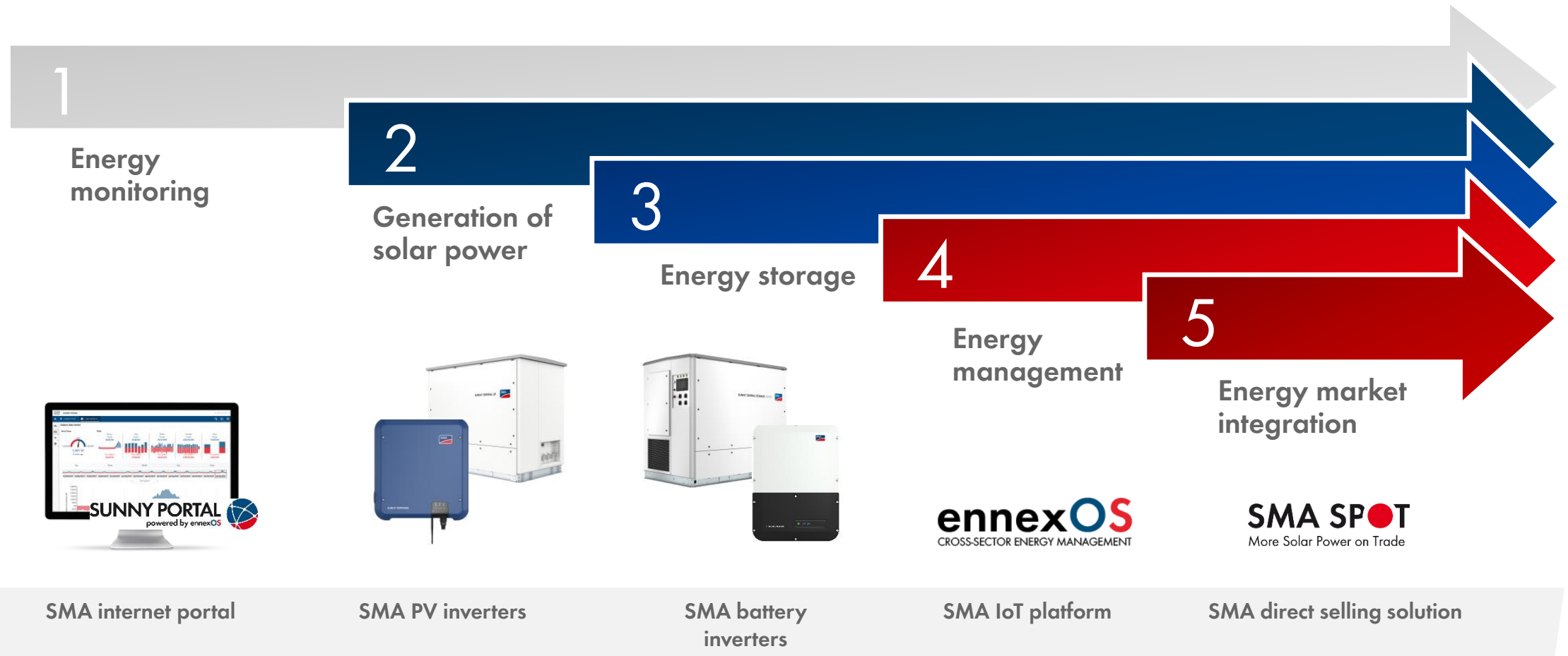


Power Generation Tomorrow

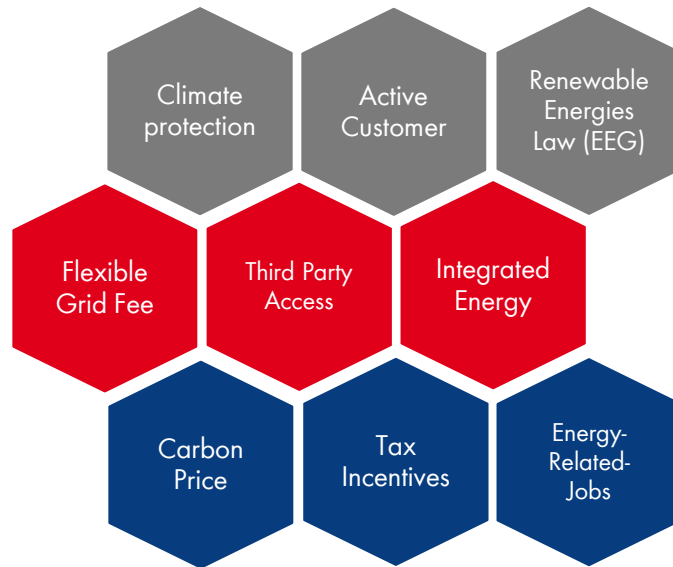


- With increasing decentralization, the supply system will become more complex.
- PV and storage systems must support the electricity grids and provide grid services.
- PV inverters will serve as the backbone for smart grid solutions connecting the components and collecting data.
- Generation and consumption data from inverters form the basis for reliable forecasts to control the system.

SMA 's Portfolio Covers Every Stage of Energy Integration



A Renewable Systems Approach



Policy

The decentralized character of solar energy empowers communities.

Locally generated electricity can contribute to the regional value chain through peer-to-peer trade and unbureaucratic regulation.



Interoperability

Digitalisation is a key enabler to advance the energy transition. The existing grid is the basis for flexible electrification. **Innovation Tenders** can turn innovation into smart solutions, integrated energy enables hybrid systems that drive grid innovations further.



Market Design

In order to create the right conditions for investment, long-term energy targets must be designed to reduce energy prices. **Corporate power purchase agreements** can prevent high fluctuations by a virtual contractual design.