



YOUR PARTNER IN

DECENTRALISED

ENERGY

SOLUTIONS



ADVANCED STORAGE TECHNOLOGY TO OPTIMIZE ENERGY GENERATION, TRANSPORTATION, DISTRIBUTION AND USE

**S4 Energy is an energy solution specialist with a focus on storage-based setups. S4 Energy combines its proprietary technologies with a global network of technical partners and knowledge-rich institutions, turning your energy challenges into integral, profitable solutions.**

### **KINEXT ENERGY STORAGE**

KINEXT for the first time enables storing large amounts of energy at high efficiency rates with an exceptionally short response time. The modular design allows integration in a variety of setups, which makes KINEXT an essential part of any modern energy solution.

Traditional storage technologies suffer from degradation, insufficient capacity, high losses, slow response and/or specialty components. S4 Energy's proprietary, innovative KINEXT technology, which is based on flywheel basics, holds the answer.

Additional benefits include the customizable configuration and setup with a choice of standard issue electric motors/generators, which allows easy maintenance, and safe operation due to the low RPM.

S4 Energy developed proprietary integral management software which makes it possible to present the added value of the energy storage solution in the customer specific user case. Furthermore, the control software allows us to translate case requirements into solution specifications.

### **KINEXT ENERGY STORAGE**

<b>Technology</b>	Flywheel
<b>Capacity</b>	30 kWh
<b>Stand-By Loss</b>	7 %/hr
<b>Power Capacity</b>	Modular, 0,1 – 1 MW
<b>Cycle Efficiency</b>	92 %
<b>Response Time</b>	< 20 ms
<b>Lifetime</b>	20 years/1.000.000+ cycles
<b>Footprint</b>	4 x 4 meters

KINEXT uses proven flywheel technology to power scalable energy storage solutions that increase operational efficiency. Whether its primary application is peak shaving, increasing network stability and power quality, or UPS: KINEXT saves costs by optimizing the grid connection demand and efficiency, production uptime, equipment lifetime, residual energy recycling while integrating sustainable sources and limiting on-site emissions.

KINEXT can be installed in a matter of weeks. Would you like to know more? Contact our team to discuss your application today.

Please call **+31 (0)10 742 0840** or visit

**S4-ENERGY.COM**

### **KINEXT BENEFITS**

- High power-to-energy ratio.
- Very fast response to power fluctuations.
- Low-cost device with a very long lifetime.
- Free of hazardous chemicals or harmful elements.
- Low operating cost and easy maintenance.
- Flexible, modular and adaptable set-up.



### **S4 ENERGY SOLUTION ADDS VALUE**

- Optimization of the available energy.
- Recycling of otherwise unutilized energy.
- Reducing or postponing capital expenditure in the infrastructure for energy distribution.
- Reduction of peak requirements of energy (and peak rates for end-users).
- Effective energy and smart grid management tools.
- Ensure uninterrupted power supply.

