



## NiCE funding fiche: Horizon2020 -

### Local / small-scale energy storage

<b>Call &amp; reference</b>	LCE 8 - 2014: Local / small-scale storage □	<b>Deadline</b>	7 May 2014
<b>Funding programme</b>	Horizon 2020	<b>EC Service</b>	Dg Research and Innovation
<b>Objectives</b>	<p>This topic will address the need to progress energy storage and reduce the barriers associated with new storage concepts integrated into the distribution grid and at building/house level. For local storage applications, it is desirable to include the interaction between the electricity grid and other energy uses such as the district heating/cooling network, CHP, micro-generation, local renewables and to include the most advanced ICT for optimising the whole system.</p> <p>Activities should focus on integrating solutions that reached Technology Readiness Level 5 to TRL 6 and above (technology validated and demonstrated in relevant environment).</p> <ul style="list-style-type: none"> <li>• Demonstration and performance verification of electrochemical and other storage technologies that are connected with low voltage substations or variable distributed electricity generation or in individual houses.</li> <li>• Demonstration and performance verification of compact electricity-grid connected heat and cold storage systems with enhanced performance. This would include integrated systems with e.g. heat pumps and/or micro CHP or the integration of existing heating/cooling grid storage with the electricity grid.</li> <li>• Demonstration proposals shall include market uptake measures for integrating energy storage in the electricity network and power system management and cost-benefit analyses of the possible uses of the technology seen from a system perspective.</li> </ul> <p>All projects will have to perform a detailed cost-benefit analysis and operational optimization of storage.</p>		
<b>Expected Impact</b>	<ul style="list-style-type: none"> <li>• Demonstrate the technical and economic synergy between local storage (ideally of several energy vectors), smart grid management, demand response and their integration with advanced ICT.</li> <li>• Demonstration of the integration of storage services in network management, particularly exploiting storage with electronic interfaces to facilitate the integration and back-up of highly variable renewable generation and dispersed demand response.</li> <li>• Increase the grid security and stability, and reduce grid congestion e.g. through appropriate integration with ICT tools for the control and management of electricity networks.</li> <li>• Increase the potential for new grid supporting services (balancing and ancillary services) linked with the availability of storage.</li> <li>• Enhanced supply independence of remote areas by means of local renewable energy generation and storage.</li> </ul>		

	<ul style="list-style-type: none"> <li>• The impacts are expected to be linked to either energy balancing, increased grid security and stability or improved grid congestion management at local level.</li> <li>• Cover a wider use of storage technologies in the energy system through validation of solutions with reduced cost, increased efficiencies, and lower environmental impact.</li> <li>• Accelerating innovation and business models for deployment of storage at local level.</li> <li>• Deferred investment for grid reinforcements and lower societal costs associated with high penetration of distributed variable renewable energy resources.</li> </ul> <p>The impacts are expected to be linked to either energy balancing or improved grid congestion management at local level.</p>		
<b>Total budget for this call</b>	EUR 44.15 million	<b>Co-financing rate</b>	Max. EC co-funding rate Innovation Actions: up to 70% co-financing (100% for non legal entities) Contribution per project                      EUR 8-12 million
<b>Further information</b>	Link to the call <a href="#">here</a> . Link to the general annexes <a href="#">here</a> . Link to the legal basis of H2020 ( <a href="#">here</a> ). Includes “Financial regulation”, with the Rules of eligible cost and the “Rules for participation”. Grants manual on proposal submission and evaluation <a href="#">here</a> .		

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