

IDENTIFIED CALL		
TOPIC	Renewable energy system integrated at the building scale	
Type of Action	RIA Research and Innovation action	
Hyperlink CALL	Link	
Deadline CALL 1st stage	31st January 2018	
Deadline CALL 2nd stage	23rd August 2018	
Challenge	<p>“An increased penetration of renewable energy in the energy mix and the decarbonisation of the heating sector are amongst the most important priorities set in the Energy Union Strategy. To this aim, solutions that integrate several technologies based on one or more renewable energy sources (and their combination with energy storage systems where necessary) should be made available and the highest possible share of renewable energy should be achieved. This integration requires innovative approaches, due consideration of the implications for the user and a proper assessment of the cost-effectiveness. This specific challenge is in line with the objectives of the SET-Plan, of Innovation Challenge n. 7 ("Affordable Heating and Cooling of Buildings") of Mission Innovation and the roadmap of the Energy-efficient Buildings (EeB) cPPP”</p>	
Scope	<p>The proposal will provide a combination of different renewable energy technologies to cover the highest possible share of electricity, heating and cooling needs of a multi-family residential or commercial or public or industrial building (in the case of the industrial building, the project is not expected to address the energy needs of the industrial process).</p> <p>Since the final application will be operated by users and installed by installers, their needs and requirements (e.g. in terms of space that the users are willing to provide for the installation of the different components of the system) shall be taken into account and the relevant expertise in terms of social sciences and humanities has to be included in the consortium.</p> <p>Attention should be paid to reducing emissions of air pollutants.</p> <p>Proposals are expected to bring the integrated technologies solutions from TRL 3-4 to TRL 4-5 (please see part G of the General Annexes).</p>	
Impact	<p>The project is expected to develop solutions that will reduce the dependence on fossil fuels for providing electricity, heating and cooling in buildings. Cost competitiveness with traditional solutions is expected to be achieved by 2025 considering also the effect of economies of scale.</p>	
Budget call (and for project)	<p>Between EUR 2 to 5 million would allow this challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts</p>	