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SOLAR PV ON THE DISTRIBUTION GRID: SMART INTEGRATED SOLUTIONS OF DISTRIBUTED GENERATION BASED ON SOLAR PV, ENERGY STORAGE DEVICES AND ACTIVE DEMAND MANAGEMENT

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I DistributedPV is an international project funded by the European Union under the H2020 programme. It started in September 2017 and the duration will be 30 months. It is being developed by a European consortium composed of twelve partners from six European countries: Spain, Germany, Greece, Poland, Lithuania and Italy. The project coordinator is APPA Renovables (Spanish Renewable Energy Association) from Spain. The main objectives of the iDistributedPV project are to propose the development of integrated solutions to enhance the large penetration of solar PV distributed generation for e.g., households/larger buildings/park areas in safe mode and according to market criteria; to develop the concept of prosumer, a player that consumes and produces electricity in his facilities, using solar PV and energy storage

equipment and smart technologies that allow to carry out active demand management. The promising solutions will integrate solar PV generation, energy solar PV production equipment, inverters, storage devices, smart technologies, active demand management approaches, monitoring strategy procedures, grid operation procedures criteria and regulatory models. Based on market criteria, it will propose effective approaches for the integration of these solutions with the rest of the electricity system; electricity demand/supply of excess of production; provision of ancillary services; energy flows and economic flows; operative procedures and telecommunication standards.

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