solar PV and wind together accounting for nearly 70%. The integration of these variable energy sources into national energy grids will largely depend on storage technologies, and among them especially batteries, to provide the flexibility required to smooth the energy supply w lables dans le mix énergétique à l'horizon . La nouvelle stratégie énergétique à l'horizon , adoptée en Avril , a fixé un nouvel objectif d'installer une capacité d'énergies renouvelables de MW d'ici pour la production d'électricité. Par ailleurs, la stratégie vise également à The implementation of an energy management strategy that is built on the increase of two components: (i) energy eficiency and the development of renewable energy, with a 30/30 target to reduce primary energy demand by 30% in compared to the trend scenario; and (ii) renewable energy to 30% of To address these challenges, Tunisia has set ambitious targets : Reducing carbon intensity by 45% by and increasing renewable energy's (RE) share to 35% of electricity production. From to , major reforms have strengthened the regulatory framework, with the creation of the Energy The GoT plans to reach 35% of renewable energy in the electricity system capacity by , against 3% currently. Renewable energy is then expected to cover 50% of the electricity needs by , and 100% of all electricity needs by . This represents 75% of Tunisia's commitments in terms of average power block efficiency of 20.81%. Table 1 summarizes the main dat pact in production of 40,624,268 dollars. Direct and indirect income-generation per unit me the most important impactsfor Tunisia. In terms of CO 2 emissions,the 77 gCO 2 eq/kWh contrast with he results of the environmental Tunisia - Tunisia, which plans to integrate 35% renewable energy into the national electricity mix by and to embed the principles of energy efficiency, would benefit from preparing the necessary infrastructure for energy storage now. Energy storage systems, using batteries and other Deploying Battery Energy Storage Solutions in Tunisiasolar PV and wind together accounting for nearly 70%. The integration of these variable energy sources into national energy grids will largely depend on storage technologies, and among Renewables Readiness Assessment: The Republic of The Global Atlas for Renewable Energy, an online resource assessment platform hosted by the International Renewable Energy Agency (IRENA), provides guidance on identifying cost RENEWABLE ENERGIES: To address these challenges, Tunisia has set ambitious targets : Reducing carbon intensity by 45% by and increasing renewable energy's (RE) share to 35% of electricity production. Green Energy Production in Tunisia: The World Bank The Government of Tunisia (GoT) has embarked on an ambitious path to increase its renewable energy production. The GoT plans to reach 35% of renewable energy in the electricity system capacity by , Tunisia Renewable Plans The report analyzes Tunisia's status in renewable energy, identifies challenges to increasing renewable energy investments, and provides recommendations in five thematic areas. Energy storage and sustainability Tunisia The effect of seasonal energy storage for intermittent wind power is taken into account such that desalination plants can increase power consumption during cold seasons in which wind power Tunisia energy storage integration Integrating wind power with energy storage technologies is crucial for frequency regulation in

modern power systems, ensuring the reliable and cost-effective operation of power systems Renewable energies in Tunisia: trends and competitiveness till Presented study is based on a parity cost calculation of conventional and renewable energies to compare their competitiveness and profitability.Renewable Power Generation Costs in Total installed costs for renewable power decreased by more than 10% for all technologies between and , except for offshore wind, where they remained relatively stable, and Grid Energy Storage Technology Cost and Recycling and decommissioning are included as additional costs for Li-ion, redox flow, and lead-acid technologies. The Cost and Performance Assessment analyzed energy storage systems from 2 to 10 hours. The Cost and Commercial Battery Storage | Electricity | | ATBCurrent Year (): The Current Year () cost breakdown is taken from (Ramasamy et al.,) and is in USD. Within the ATB Data spreadsheet, costs are separated into energy and power cost estimates, which allows Scaling up renewable energy investment in TunisiaTunisia has an abundance of solar and wind resources, providing sustainable and cost-competitive options to meet growing energy demand. The country has established a target of Utility-Scale Battery Storage | Electricity | | ATBProjected Utility-Scale BESS Costs: Future cost projections for utility-scale BESS are based on a synthesis of cost projections for 4-hour duration systems as described by (Cole and Karmakar,). The share of energy and power Electricity storage and renewables: Costs and markets to Citation: IRENA (), Electricity Storage and Renewables: Costs and Markets to , International Renewable Energy Agency, Abu Dhabi. Global energy storage Global pumped storage capacity , by leading country Energy Battery storage cumulative capacity in Europe - Batteries Lithium-ion battery price worldwide

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