

BATTERY ENERGY STORAGE SYSTEMS (BESS)



Interconnect Malta Ltd. (ICM) has been entrusted the responsibility to implement two Battery Energy Storage Systems (BESS) to be connected to the Maltese National electric grid network.

BESS is essentially a group of large batteries configured to store and dispatch electrical energy with very fast response when required.

The first system (BESS 1), rated at 20MWh (8MW), will be located in the underground tunnels of the former Marsa power station while the second system (BESS 2) shall have a rating 64MWh (32MW) and shall be located within the precincts of the Delimara power station.

This project is in alignment with Malta's energy and climate strategies, as it emphasises the integration of energy emanating from renewable sources and the mitigation of energy curtailment, thus enhancing energy security and reducing carbon emissions.

BESS shall contribute towards enabling Malta to achieve its EU decarbonisation commitments, as it counters the intermittency characterising Variable Renewable Energy Sources (VRES) such as solar PV and stabilises the grid among the potential provision of other services.

It is estimated that the Delimara project will cost €35 million, with that in Marsa costing €12 million. BESS 1 will be 100% funded from the Recovery and Resilience Fund (RRF) while BESS 2 is being considered for co-financing under the ERDF programme 2021-2027.

The BESS project is also intended to mitigate weather-related challenges posed by renewable energy sources, which are reliant on climatic conditions and can therefore lead to significant dips in generation during moments of sudden cloud coverage severely affecting the PV generation in Malta.

Having battery-stored renewable energy will also allow the country to reduce its reliance on fossil fuel-generated power at peak times.

ICM has submitted development permitting applications for both the Marsa and Delimara projects have been filed with the Planning Authority.



May be co-funded by
The European Union

SISTEMI TA' HAŻNA TAL-ENERĠIJA BIL-BATTERIJI (BESS)



Interconnect Malta Ltd. (ICM) giet fdata bir-responsabbiltà biex timplimenta żewġ Sistemi ta' Hażna tal-Energija bil-Batteriji (Battery Energy Storage Systems - BESS) li se jkunu konnessi man-network nazzjonali tal-elettriku ta' Malta.

Dawn is-sistemi essenzjalment ikunu jikkonsistu fi grupp ta' batteriji kbar magħquda ma xulxin biex jaħżnu u jqassmu l-enerġija elettrika fi żmien qasir meta jinqala' il-bżonn.

L-ewwel sistema (BESS 1), b'kapacità ta' 20MWh (8MW), ser titpogġa f'mini taħt l-art tal-ex power station tal-Marsa filwaqt li t-tieni sistema (BESS 2) li se jkollha kapacità ta' 64MWh (32MW) se tkun tinsab fil-konfini tal-power station ta' Delimara.

Dan il-proġett jorbot mal-istrategġija tal-enerġija u l-klima ta' Malta, billi jgħin fl-integrazzjoni ta' enerġija li tkun geġja minn sorsi rinnovabbli u ser jgħin biex jillimita it-trażżin mhux mixtieq tagħha meta ma tkunx tista' tiġi ikkunsjata fil-pront. B'hekk isaħħaħ is-sigurtà tal-enerġija u jnaqqas l-emissjonijiet tal-karbonju.

Dawn is-sistemi ser jikkontribwixxu biex Malta tikseb l-impenji tagħha ta' dekarbonizzazzjoni tal-UE, billi inaqqsu l-intermittenza marbuta ma Sorsi ta' Energija Rinnovabbli bħal solar PV, u b'hekk jistabbilizzaw aktar il-grid tal-elettriku.

Huwa stmat li l-proġett ta' Delimara se jiswa €35 miljun, filwaqt li dak f'Marsa se jiswa €12 miljun. BESS 1 se jkun iffinanzjat 100% mill-Fond għar-irKuprar r-Reżiljenza (RRF) filwaqt li BESS 2 qed jiġi kkunsidrat għal kofinanzjament taħt il-programm ERDF 2021-2027.

Il-proġett BESS huwa wkoll maħsub biex jimmitiga l-isfidi relatati mat-temp li jaffettwa is-sorsi ta' enerġija rinnovabbli billi dawn jiddependu fuq il-kundizzjonijiet klimatiċi u li jista' jwassal għal tnaqqis sinifikanti fil-ġenerazzjoni waqt mument meta meded kbar ta' sħab f'daqqa jaffettwa serjament il-ġenerazzjoni tal-elettriku solari f'Malta.

Il-ħażna ta' enerġija rinaovabbli fil-batteriji se jippermetti wkoll lill-pajjiż inaqqas id-dipendenza tiegħu fuq l-enerġija ġġenerata mill-fjuwils li jipproduċu il-karbonju f'ħinijiet ta' domanda għolja.

ICM ipprezentat applikazzjonijiet għall-permessi ta' żvilupp għaž-żewġ proġetti ta' Marsa u Delimara mal-Awtorità tal-Ippjanar.

