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**REFFECT AFRICA**

RENEWABLE ENERGIES FOR AFRICA:  
EFFECTIVE VALORIZATION OF  
AGRI-FOOD WASTES



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# DARA olive mill

REFFECT AFRICA focuses on the on-site and real-time demonstration of an innovative system for improved gasification of agricultural waste.

One of the direct impacts will take place in Morocco (at the premises of the DARA oil mill). DARA oil mill is located on a 20 hectares farm, where 12 hectares are covered by the olive orchard.



**5 Year project**



**Olive tree value chain**



**Off-grid application**



**Morocco**

## Rehamna (Marrakesh)

The DARA oil mill is located in the province of Rehamna. It is a province of Morocco, part of the Marrakesh-Safi region with an area of 5,856 km<sup>2</sup> and 315,077 inhabitants.

### Province of Rehamna, Marrakesh, Morocco.

Currently, this factory is a stand-alone off-grid application and its primary source of electricity is a 100kVA diesel generator. The different elements of the proposed system are: A biomass gasifier, a diesel generator, and a paralleling controller system for the management between both generators and the load (mill).

Another important component of the demonstrator is the water laboratory which will be installed on the same site with tools adapted for water analysis on the farm and also for neighbouring farms.

## The benefit

The demonstrator will allow, the energetic reuse of the olive tree value chain, valorising the olive tree pruning residues generated in the mill to the extent of 50% of the electricity and 80% of the heat.

