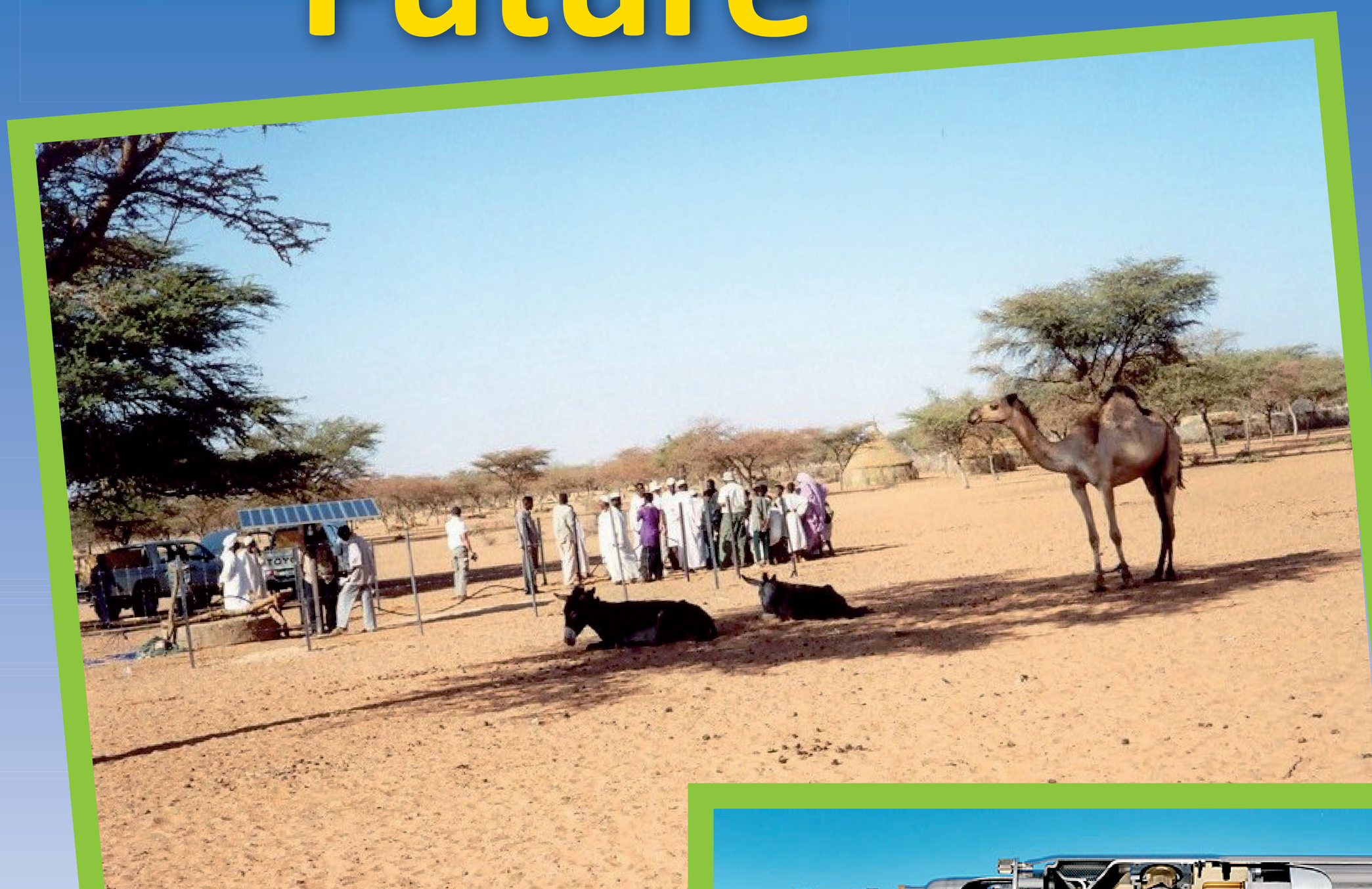
Educate for the Future

ENEA

Italian national agency for new technologies,
energy and sustainable economic development

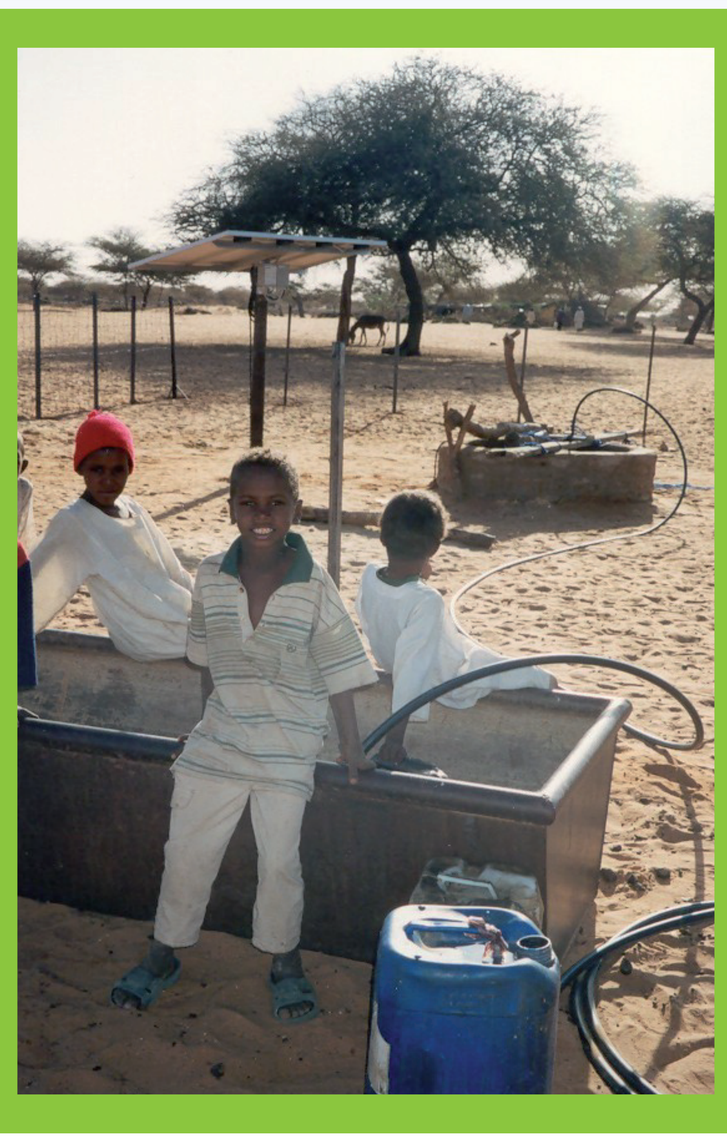


SOLAR WATER PUMPING SYSTEM

A submerged solar pump is a small power and high efficiency system designed specifically for water delivery in remote locations. It can be directly fed by photovoltaic panels of common type with an electrical capacity from 200 to 2.000 Wp (24-48 V).

The pumping system delivers from 1.000 to 50.000 liters per day depending on the photovoltaic power and depth of the well, which can vary from 0 to 150 meters. A stocking reservoir can be placed up to a distance of 2000m. Its installation is extremely easy and does not need any special equipments.

An electronic management system is able to control the flow variation inside the pump (dry check). For example, in sub Saharan Africa, with a photovoltaic capacity of 500 Wp, a solar pumping system can deliver 10,000 liters of water per day from a well 40 meters deep.



Italian National Network of Schools for a Sustainable Future

www.educarsialfuturo.it • educarsialfuturo@enea.it • www.enea.it

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