

The Tunisian consultation workshop on the assessment of the water-food-energy-ecosystems nexus in the North-West Sahara Aquifer System (NWSAS) was held from 3 to 4 April 2010 in Tunis, Tunisia. The event gathered over 60 Tunisian participants among authorities and experts from the water, energy, agriculture and environmental fields, as well as ...

Morocco drives renewable energy projects in Western Sahara. Morocco has claimed authority over Western Sahara since 1975, but the UN does not recognise Moroccan control, calling Western Sahara a "non-self-governing territory." The UN has called for a referendum to decide the region's future.

"An Affordable and Sustainable Energy System for Sub-Saharan Africa" (Energy Sub-Saharan Africa) is a five-year (2019-2024) programme funded by the European Union that is designed to support selected countries in sub-Saharan Africa to improve their energy data management and long-term energy planning.. The IEA has been working in and with African countries on energy ...

the groundwater resources of the North Africa's transboundary aquifer system, the North-Western Sahara Aquifer System (NWSAS). The sustainability of these valuable resources is facing increasing threats. The damages of natural resources and ecosystems have reached an irreversible stage as manifested by local hydrocarbon contamination.

Nexus approaches have been widely used for evaluating interlinkages between resource systems, trying to identify challenges, synergies, trade-offs and assess holistic solutions [1, 2].Nexus thinking is also gaining attention in transboundary resources settings [2, 3] ch is the case of the North Western Sahara Aquifer System (NWSAS).

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The North-Western Sahara Aquifer System (NWSAS) shared by Algeria, unisia and Libya, can be categorized as a multi-layered system of aquifers which embodies a huge stock of non-renewable, fossil water. This basin comprises a series of aquifer layers which have been grouped into two reservoirs called the Continental Intercalary (CI) and the Complex Terminal ...

The UNECE and Global Water Partnership report "Reconciling resource uses: Assessment of the water-food-energy-ecosystems nexus in the North Western Sahara Aquifer System", underlines the urgency of taking action across borders and sectors to address the threats leading to the degradation of the aquifer system.

that involves representatives from the energy ministries, utilities as well as other energy stakeholders to oversee the energy issues in the NWSAS region and connect the basin's needs to the national energy policymaking and planning process. Action 5: Motivate the energy sector to involve effectively in the dialogues at the transboundary level.

The temporal resolutions of 3 h for the whole study area, or 1 h for Western Sahara are not fine enough to consider issues in power system operation (usually based on steps of 15 min). In this respect, our study is a conceptual one based on multi-annual statistical and correlation properties of wind and solar resources.

Ecosystems Nexus in the North-Western Sahara Aquifer Youssef Almulla Division of Energy Systems Analysis ... sustainable scheme for solar energy (environmental impact) Development of detailed implementation plans to achieve the planned renewable targets. This should address questions related

International Forum on Energy for Sustainable Development Road Safety Trust Fund. ... Shared by Algeria, Libya and Tunisia, the North Western Sahara Aquifer System (NWSAS) is North Africa's largest groundwater reserve, supporting the lives and livelihoods of 4.8 million inhabitants. A vital water resource extending over 1 million square ...

Western Sahara Resource Watch, a Brussels-based NGO allied to the independence movement, estimates that by the end of the decade occupied Western Sahara could be supplying half of all Morocco's wind ...

in the North Western Sahara Aquifer System Part B: Technical assessment of resources and sectors 2020 . 2
ACKNOWLEDGEMENTS The project partnership would like to thank the member institutions of the NWSAS Consultation Mechanism and the project Steering Committee for guidance: General Water Resources Authority of Libya, ... 1.6.3 Renewable energy ...

Building on the Water Convention's nexus work, the UNECE proposes a "tool-kit" for sustainable renewable energy. "Towards sustainable renewable energy investment and deployment: Trade-offs and opportunities with water resources and the environment" is a joint publication of the Environment and Sustainable Energy Divisions. Energy-related objectives can be achieved ...

International Forum on Energy for Sustainable Development Road Safety Trust Fund. ... Covering an area of approximately 1 million km², the North Western Sahara Aquifer System (NWSAS) basin is an essential water resource for 4.6 million people in Algeria, Tunisia and Libya (2.04 million in Algeria, 1.48 million in Libya, 0.7 million in Tunisia). ...

Morocco drives renewable energy projects in Western Sahara. Morocco has claimed authority over Western Sahara since 1975, but the UN does not recognise Moroccan control, calling Western Sahara a "non-self-governing ...

inter-dependencies that make cooperation a precondition to sustainable development and peace. There is a long history of cooperation between Algeria, Libya and Tunisia in the knowledge and management of transboundary water resources of the ...

This policy brief highlights the main results of an assessment of the water-food-energy-ecosystems nexus in the North-Western Sahara Aquifer System (NWSAS), shared by Algeria, Libya and Tunisia. The aquifer system is one of the largest transboundary groundwater reserves of North Africa, extending over one million square kilometres and subject ...

in the North Western Sahara Aquifer System basin Policy brief supported by. 2 ... economic, environmental and political inter-dependencies that make cooperation a precondition to sustainable development and peace. There is a long history of cooperation between ... o The added-value of implementing a water-food-energy-ecosystems nexus approach ...

International Forum on Energy for Sustainable Development Road Safety Trust Fund. Policy Brief: Improving sustainable development in the North-Western Sahara Aquifer System through a transboundary nexus approach ... French. File type1. Policy-Brief-Sahara-Aquifer-WEB_final_FR.pdf (application/pdf, 3.68 MB) Downloads. English. Policy-Brief ...

This report highlights the main results of an assessment of the water-food-energy-ecosystems nexus in the North-Western Sahara Aquifer System (NWSAS), shared by Algeria, Libya and Tunisia. The aquifer system is one of the largest transboundary groundwater reserves of North Africa, extending over one million square kilometers and subject to ...

Actions for sustainable deployment of renewable energy in the basin 19 TABLE 9. Actions for local product valorisation and women and youth empowerment 22 TABLE 10. Actions for the definition and the consideration of environmental needs in the water balance of the aquifer 24 ... in the North Western Sahara Aquifer System (NWSAS). Shared by ...

This report highlights the main results of an assessment of the water-food-energy-ecosystems nexus in the North-Western Sahara Aquifer System (NWSAS), shared by Algeria, Libya and Tunisia. The aquifer system is one of the largest ...

The initial stages of another renewable energy project has been launched in the disputed Western Sahara region, which is under the control of Morocco. The Janassim project recently launched its measuring campaign ...

More than sixty stakeholders from Algeria, Libya and Tunisia gathered in Hammamet for the second and last basin workshop of the project 'Assessing the Water-Energy-Food-Ecosystems Nexus in the basin of the North Western Sahara Aquifer System (NWSAS)';.

Building on the Water Convention's nexus work, the UNECE proposes a "tool-kit" for sustainable renewable energy. "Towards sustainable renewable energy investment and deployment: Trade-offs and opportunities with water ...

Previous studies have explored hybrid renewable energy systems to electrify rural areas. Hou et al. and Wimalaratna et al. collectively studied advanced renewable energy solutions, optimizing wind-photovoltaic-storage systems, assessing wind power integration, and introducing an innovative off-grid system for sustainable energy generation.

Operational Recommendations for a Sustainable Management of the SASS Water Resources. The North Western Sahara Aquifer System (NWSA), better known under the acronym SASS for its French name Syst#232;me Aquif#232;re du Sahara Septentrional, is a large aquifer shared by Algeria, Libya, and Tunisia. The NWSAS designates the superposition of two main ...

International Forum on Energy for Sustainable Development Road Safety Trust Fund. Reconciling resource uses: Assessment of the water-food-energy-ecosystems nexus in the North Western Sahara Aquifer System ... "Policy Brief: Improving sustainable development in the north Western Sahara Aquifer System through a transboundary nexus approach" is ...

North-Western Sahara Aquifer System basin". WATER ENERGY FOOD ENVIRONMENT 1 The formulations are simplified from the report "Reconciling resource uses: assessment of the water-food-energy-ecosystems nexus in the North Western Sahara Aquifer System" Example of solutions: circular economy through non-conventional water resources and renewable ...

In response, there has been a concerted effort to transition towards sustainable energy systems, with renewable energy sources playing a central role. However, the intermittent nature of renewables, like solar or wind, presents significant challenges for grid stability and reliability. Energy storage technologies represent a cutting-edge field ...

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