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Transition and quality control of wastewater uses recycled in Algeria

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Algeria is in the category of poor water resources according to the scarcity threshold set by the United Nations Development Program (UNDP) or the World Bank at 1,000 cubic meters per capita per year. It is currently estimated at 500 m³ and will be only 430 m³ by 2020, according to projections made by the UN (Source MRE). So Algeria cannot turn back to this opportunity and reuse this purified or naturally purified wastewater considering these commitments of sustainable development. Algeria has all the keys to a successful transition and to control the quality of wastewater uses. It is necessary to recognize that scientific knowledge helps in the integrated and sustainable management scientifically for the use of water from its adapted source. This is a good ideal, ideal for health, ideal for soil, ideal for finished product - cheap and sustainability assured. The "ideal drop" is the guarantee for each context of an optimal and specific technology (expected quality and quantity of water, storage, irrigation mode). It must also lead to economic and social profitability while preserving risks to health, agronomy and the environment. Treating water excessively kills the profitability of agricultural projects. Conversely, poor control of the risks would lead to failures jeopardizing the future of the reuse of domestic wastewater. The reflection on treatment must be carried out from the downstream of the water chain and the water must be treated according to the use that is made of it. Irrigators and water caterers are then obliged to work in synergy and seek the best compromise, ideal goal and share best benefits.

Biography

Saliha Zerdoum is working as an Engineer and Expert in Environment and Sustainable Development. During her 20-year career, she has been involved in all aspects of administrative and technical management of environmental issues in her area. She first started in the administrative sector, where she had the chance to be involved in the development projects development and management program. She has not only witnessed the advancement of development towards modern facilities such as technical landfills, recycling and composting facilities, and wastewater recycling, but it also gave her the opportunity to learn more and develop skills.

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