

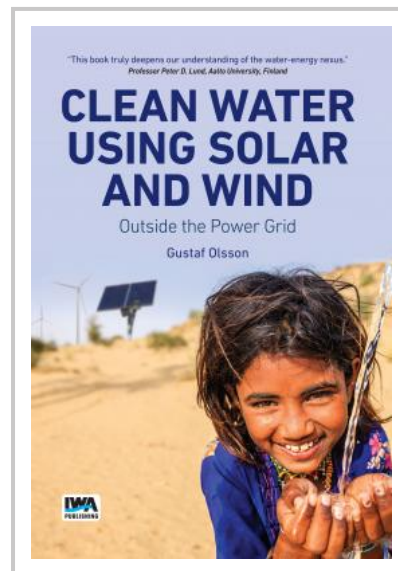
## Clean Water Using Solar and Wind: Outside the Power Grid

Solar photo-voltaic (PV) and wind offer to bring both clean energy and clean water to remote regions and peri-urban areas in the world, outside the conventional electric grids. One out of seven people has no electric power available that would bring light to the home, cook the food, pump to access water and purify or re-use it. Off-grid systems are scalable and can be designed to any size, from household to village and community levels. The renewable energy cost development is remarkable and can make electric power affordable also for the poorest.

Renewables promise an end to the era where energy security is closely related to geopolitics. The expenditure is up-front capital cost while “fuel” is free. With renewables, there is no geopolitical pressure where one country has deposits of a fossil fuel while another does not.

This book aims to show how clean water and clean energy are reachable for all while contributing to both a better climate and a healthier life.

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