

Greenhouse Solutions with Sustainable Energy

Bio

Dr Mark Diesendorf is based at Institute of Environmental Studies, UNSW. Previously, at various times, he was a Principal Research Scientist in the CSIRO Division of Mathematics and Statistics, Professor of Environmental Science at UTS, President of the Australia New Zealand Society for Ecological Economics, Vice-President of the former Sustainable Energy Industries Council of Australia and Director of Sustainability Centre Pty Ltd. He is the author of about 100 scholarly publications, including the recent book “Greenhouse Solutions with Sustainable Energy”.

Abstract

Global warming is accelerating, as the result of several amplification processes, and urgent strong action is needed now to reduce greenhouse gas emissions. The only technologies that are capable of making big reductions in emissions before 2020 are efficient energy use, the lower-cost renewable energy sources and gas. Neither coal power with CO₂ capture and storage nor hydrogen from renewable energy sources will be commercially available on a significant scale before the 2020s at earliest. To implement the available sustainable energy technologies, new policies are needed from both federal and state governments.

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