Environmental Impact of Hydrogen Technologies

I. Dincer, T.N. Veziroglu

This document appeared in

Detlef Stolten, Thomas Grube (Eds.):
18th World Hydrogen Energy Conference 2010 - WHEC 2010
Parallel Sessions Book 4: Storage Systems / Policy Perspectives, Initiatives and Co-operations
Proceedings of the WHEC, May 16.-21. 2010, Essen
Schriften des Forschungszentrums Jülich / Energy & Environment, Vol. 78-4
Institute of Energy Research - Fuel Cells (IEF-3)
Forschungszentrum Jülich GmbH, Zentralbibliothek, Verlag, 2010
ISBN: 978-3-89336-654-5

Environmental Impact of Hydrogen Technologies

Ibrahim Dincer and T. Nejat Veziroglu

Abstract

This chapter discusses the role of hydrogen technologies as a potential solution for current and future environmental problems, and to provide a better environment and sustainable development. It also assesses the hydrogen production methods for sustainable hydrogen production by evaluating their greenhouse gas emissions and air pollutants. Two case studies are presented to discuss the environmental impact and energy utilization aspects, and to highlight the importance of the topic and show that these can help achieve a better environment and sustainability.