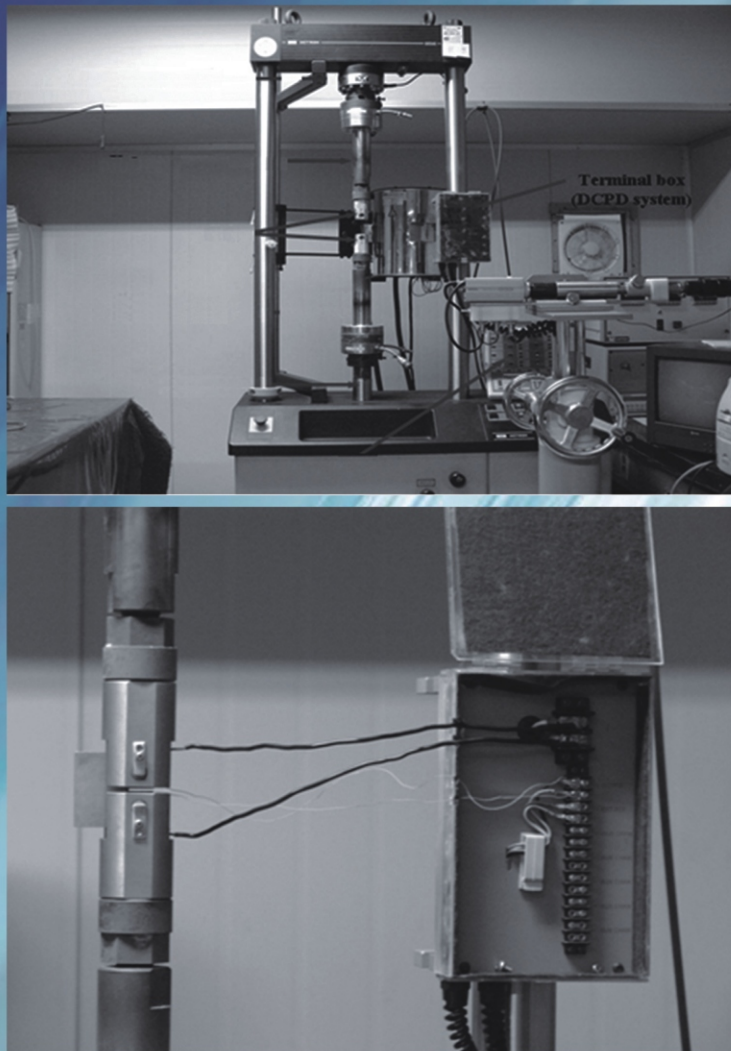


ISSN: 2158-7000 Vol. 2, No. 1, March 2011

Low Carbon Economy

www.scirp.org/journal/lce



ISSN: 2158-7000



Scientific
Research

Journal Editorial Board

ISSN: 2158-7000 (Print) ISSN: 2158-7019 (Online)

<http://www.scirp.org/journal/lce>

Editor-in-Chief

Prof. Andrea Baranzini Haute Ecole de Gestion de Genève, Switzerland

Editorial Board

Dr. Alireza Afshari	Aalborg University, Denmark
Prof. Jeroen van d. Bergh	Universitat Autònoma de Barcelona, Spain
Prof. Xiaoqiang Cai	Chinese University of Hong Kong, China
Prof. Carlo Carraro	University of Venice, Italy
Prof. Heekyu Choi	Changwon National University, Korea (South)
Dr. Dabo Duan	University of Cambridge, UK
Prof. Emmanuel Fragniere	Haute Ecole de Gestion de Genève, Switzerland
Dr. Joshua S. Fu	University of Tennessee, USA
Prof. José Goldemberg	Universidade de São Paulo, Brazil
Prof. Richard B. Howarth	Dartmouth College, USA
Prof. Angel Irabien	Universidad de Cantabria, Spain
Dr. Shun-Chung Lee	National Cheng Kung University, China
Dr. Junfeng Liu	Princeton University, USA
Prof. Axel Michaelowa	University of Zurich, Switzerland
Dr. Luis Mundaca	Lund University, Sweden
Dr. Sunil Nautiyal	Institute for Social and Economic Change, India
Prof. Giancarlo Tosato	Energy Models Studio, Italy
Prof. Yundong Wang	Tsinghua University, China
Prof. Yiming Wei	Beijing Institute of Technology, China
Dr. Harold L. Wilhite	University of Oslo, Norway
Dr. Zhongxiang Zhang	East-West Center, USA

Editorial Assistant

Yating Cao Scientific Research Publishing Email: lce@scirp.org

Low Carbon Economy

Journal Information

SUBSCRIPTIONS

Low Carbon Economy (Online at Scientific Research Publishing, www.SciRP.org) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$39 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

COPYRIGHT

Copyright©2011 Scientific Research Publishing, Inc.

All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

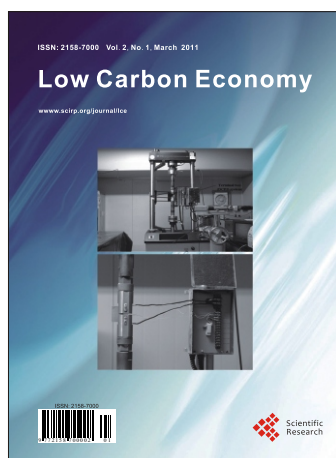
Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: lce@scirp.org



Call for Papers

Low Carbon Economy

<http://www.scirp.org/journal/lce>

Low Carbon Economy (LCE) is a peer reviewed international journal dedicated to the latest advancement of low carbon economy. The goal of this journal is to keep a record of the state-of-the-art research and to promote study, research and improvement within its various specialties.

Subject Coverage

All manuscripts must be prepared in English, and are subject to a rigorous and fair peer-review process. Accepted papers will immediately appear online followed by printed hard copy. The journal publishes original papers including but not limited to the following fields:

- carbon markets and carbon taxation
- clean development mechanism, joint implementation, emissions trading
- corporate low carbon strategies
- ecological consumer behaviour
- ecological reforms
- energy management
- environmental and clean technologies
- fossil fuels resources and consumption, markets and policies
- green economy and sustainable development
- low carbon public policies at different scales, from local to international

LCE publishes different types of papers: applied research articles are original academic contributions analysing a specific topic or issue and discussing the policy implications; case-studies discuss an in-depth investigation of a firm(s) or country(ies) initiative; surveys, which present the state-of-the-art of the literature on a specific topic or issue; short position papers, which are mostly related to very specific policy issues. we also publish Special Issues on specific topics.

Notes for Intending Authors

Your paper should not have been previously published or be currently under consideration for publication any place else. Submit your paper electronically through the LCE online system. All papers are subject to peer review. After your paper has been accepted, you must sign a copyright transfer agreement with LCE. Papers accepted for publication will be available free online. A fee will be charged to cover the publication cost. Manuscripts must be written in English.

Website and E-Mail

<http://www.scirp.org/journal/lce>

E-mail: lce@scirp.org

TABLE OF CONTENTS

Volume 2 Number 1

March 2011

Bio Diesel from Castor Oil - A Green Energy Option

H. Y Shrirame, N. L. Panwar, B. R. Bamniya..... 1

Brazilian Family Farming Agriculture in the Biodiesel Production: A Portrait of Regional Possibilities

A. Kamimura, A. d. Oliveira, G. F. Burani..... 7

Literature Review of Carbon Finance and Low Carbon Economy for Constructing Low Carbon Society in China

S. H. Zeng, S. Zhang..... 15

The Comparative Study of Fatigue Crack Propagation Experiment and Computer Simulation on the Component Materials for the Crane Life Remained

S. Kim, H. Bae, M. Park, S. Kim, H. Chung, H. Choi..... 20

Measurement and Prediction of the Solubility of CO₂ in Ester Mixture

X. Gui, Z. G. Tang, W. Y. Fei..... 26

Analysis of Material Metabolism of Eco-Economic System in Chongqing Based on the Emergy Theory

X. S. Gao, X. J. Luo, L. J. Deng, M. Zeng..... 32

Broadband and Telecommuting: Helping the U.S. Environment and the Economy

J. P. Fuhr, S. Pociask..... 41