

Appropriate Technology

September 2006

Volume 33, No 3

ISSN 0305-0920 (Print)

ISSN 1751-6900 (Online)

Incorporating
Agriculture & Equipment
International

International Agricultural
Development
and
gate-technology &
development

gate

Editor
David Dixon
"Carpenters", Chetnole
Sherborne Dorset
DT9 6PF, UK

Tel: +44 (0)1935 872 695
D.Dixon@farmline.com

Consultant Editors
John Madeley
George Macpherson

2006 Subscriptions:
Individuals: £48 (US\$84) per annum
All other subscribers: £135 (US\$270)

Published quarterly in Britain by
Research Information Ltd
Grenville Court, Britwell Road,
Burnham, Buckinghamshire
SL1 8DF, UK

Tel: +44(0)1628 600499
Fax: +44 (0)1628 600488
info@researchinformation.co.uk
www.appropriate-technology.org

(c)Copyright 2006

No part of this publication may be reproduced or transmitted in any form or by any means, or used in any information storage or retrieval system, without the prior written permission of the publisher, except as follows: (1) Subscribers may reproduce, for local internal distribution only, the highlights, topical summary and table of contents pages unless those pages are sold separately; (2) Subscribers who have registered with The Copyright Licensing Agency Ltd., 90 Tottenham Court Road, London W1P 9HE, UK or, The Copyright Clearance Center, USA and who pay the fee of US\$2.00 per page per copy fee may reproduce portions of this publication, but not entire issues. The Copyright Clearance Center is located at 222, Rosewood Drive, Danvers, Massachusetts 01923, USA; tel: +1 978 750 8400.

No responsibility is accepted by the Publishers or Editors for any injury and/or damage to persons or property as a matter of product liability, negligence or otherwise, or from any use or operation of any methods, products, instructions or ideas contained in this publication.

Advertising material is expected to conform to ethical standards, but inclusion in this publication must not be construed as being any guarantee of quality, value or safety, or endorsement of any claims made by the advertiser.

Contents

REGULAR FEATURES

- 4 **Comment: Sustainable energy**
5 **News briefing**
8 **Broadbrush by John Madeley**
13 **Agriculture**
24 **Practical Action Technical Brief**
29 **Integrated pest management**
32 **Northern News**
36 **gate ...**
70 **Forthcoming**
- 10 **FARM-Africa**
Improved health and livelihoods with African indigenous vegetables
- 22 **Trade**
Farming future: a new world, but not so brave
- 30 **Water**
Women overcome water scarcity
- 40 **The Ashden Awards for Sustainable Energy**
Brick kilns fired by agro-wastes
Pedalling out of poverty
New stove design changes lives in Mexico
A revolution in biogas design
Solar power shines on rural Bangladesh
New charcoal stove for Cambodia
Biogas from humans and pigs
'Rocket stove' reduces use of fuel wood
Biogas slurry boosts productivity
Solar power takes hold across rural Sri Lanka
- 63 **Health matters**
Infant disease cut by 88 per cent in Kenya
International Aids Conference
- 66 **Agroforestry**
Livestock thrive on tree hybrid

The publishers gratefully acknowledge the support of regular bulk subscribers to Appropriate Technology including, Misereor, CAFOD, ITDG, Peace Corp and VSO.

Front Cover: A solar powered household outside Dhaka, Bangladesh

Credit: Ashden Awards - see page 49