Appropriate Technology

September 2010 Volume 37, No 3 ISSN 0305-0920 (Print) ISSN 1751-6900 (Online)

Incorporating

Agriculture & Equipment International

International Agricultural Development

Editor

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

Tel: +44 (0)1935 872 695 dixondavid2@sky.com

Consultant Editors
John Madeley
George Macpherson

2010 Subscriptions:

Individuals: £52 (US\$104) per annum All other subscribers: £158 (US\$316)

Published quarterly in Britain by Research Information Ltd Grenville Court, Britwell Road, Burnham, Buckinghamshire SL1 8DF, UK Tel:+44(0)1628 600499

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

(c)Copyright 2010

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

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	and	attainable	eneray

- 5 News briefing
- 8 Health matters
- 16 GTZ (German Technical Cooperation)
- 25 Forthcoming
- 46 Broadbrush by John Madeley
- 48 FARM-Africa
- 62 Practical Action Technical Brief

18 Agriculture

Late blight resistance boosts Andean smallholders' production

GM crops: still not a panacea for poor farmers

Field schools enrich farmers' skills

Sorghum hybrids make impact in West Africa

A quiet cassava revolution

26 Awards

The Ashden Awards for sustainable energy

Hydro powers the community

Solar lanterns lighting up the world

Pigs are flying in Vietnam

Villages lit up by solar

Waste not going to waste

All power to the sun

2010 World Food Prize

52 Agroprocessing

Seeding Change: A woman entrepreneur shows the way out of poverty

54 Beekeeping

Beekeeping helps to restore degraded river ecosystem

56 Development

Learning to live

Low-cost thrills from Millennium Villages

60 Renewable energy

Cheaper solar cells win prize

68 Integrated pest management

Green pepper to the rescue of African bananas

70 Call for contributions

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

Front Cover: Pouring slurry from a biogas plant onto a cabbage garden in Dong Xuan, Soc Son Province, Vietnam.

Credit Ashden Awards (see page 32)