Date 27 March 2017

THE SMART VILLAGES INITIATIVE

Presenter: Dr John Holmes
1.1bn people live without access to energy

3bn people cook on unclean stoves leading to 4.3m deaths per year

e4sv.org
Ensure access to affordable, reliable, sustainable and modern energy for all

By 2030:

- Ensure universal access to affordable, reliable and modern energy services
- Increase substantially the share of renewable energy in the global energy mix
- Double the rate of improvement in energy efficiency
ENERGY ACCESS AS ENABLER OF MOST SDGS
ENERGY AS A CATALYST FOR DEVELOPMENT

- Food security
- Democratic engagement
- Health & Welfare
- Education
- Local business
SMART CITIES: NEED FOR A VILLAGE LEVEL ANALOGUE

47% of world’s population and 70% of the world’s poor live in rural villages

SMART CITIES

SMART VILLAGES

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SMART VILLAGES: SOME KEY FEATURES

Key services: education, health, clean water and sanitation
- ICT connectivity: distance learning and world’s knowledge base
- Modern health services and tele-medicine
- Provision of clean water and safe sanitation

Foster entrepreneurship in the provision and use of energy services
- Capture more of the agricultural value chain
- Create new businesses

Through ICT connectivity, participate in governance processes
- At local, regional and national levels
- Smart communities with strong rural/urban linkages

Building more resilient communities better able to respond to shocks

All enabled by access to modern ENERGY

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SHIFTING THE BALANCE OF OPPORTUNITIES BETWEEN CITIES AND VILLAGES

Technological advances
Game changing technologies
THE SMART VILLAGES INITIATIVE

**Focus:** sustainable local energy solutions for rural communities

**Policy advice:** an insightful, ‘view from the frontline’ of the challenges of village energy provision for development, and how they can be overcome

**Engagement:** bringing together the key players: scientists, entrepreneurs, villagers, NGO’s, financers, regulators and policy makers etc:

- What are the barriers?
- How can they be overcome?
- What messages to funders and policy makers?
Facilitating discussion between communities...

...on the barriers to energy access for rural development and how they can be overcome
SMART VILLAGES INITIATIVE: A PARTNERSHIP

Project team: Universities of Cambridge and Oxford

Funding: charitable foundations: CMEDT & TWCF

Key partners:
- National Science Academies
- Practical Action

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SIX REGIONAL ENGAGEMENT PROGRAMMES

- East Africa – June 2014
- SE Asia – January 2015
- South Asia – April 2015
- South America – January 2016
- West Africa – May 2016
- Central America/Caribbean – November 2016
SIX REGIONAL ENGAGEMENT PROGRAMMES

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12-18 month engagement programmes:
- Workshops → reports/policy briefs
- Briefing meetings
- Capacity building event
- Media workshop
- Entrepreneurial competition
- Final event pulling together key stakeholders
CROSS-CUTTING ACTIVITIES

- Concluding Events
- Research Projects
- Forward Look Workshops
- Communications & Outreach
- Policy maker & stakeholder Engagement

European Union
International (UN, World Bank etc.)

Book of Essays
Weekly newsletter
Webinars
www.e4sv.org
WORKSHOPS HELD TO DATE

West Africa
- First West Africa Regional workshop: Accra, Ghana, May 2016
- The WEF nexus, Senegal, August 2016
- Country focus – Togo, February 2017

East Africa
- First East Africa regional workshop: Arusha, Tanzania, June 2014
- East Africa media dialogue workshop: Kigali, Rwanda, November 2014
- East Africa Community Leaders’ dialogue workshop: Terrat, Tanzania, August 2015
- Concluding high-level workshop for East Africa engagement: Kigali, Rwanda, September 2015

Southeast Asia
- First Southeast Asia regional workshop: Kuching, Malaysia, January 2015
- Southeast Asia media dialogue workshop: Seoul, South Korea, September 2015
- Energy for off-grid islands: Bunaken island, Indonesia, November 2015
- Sustainable dissemination of improved cookstoves: lessons from Southeast Asia: Yangon, Myanmar, December 2015
- Smart Villages and resilience to natural disasters: National University of Singapore, May 2016
- The energy & water nexus, Philippines June 2016
- Asia wrap up Workshop, Thailand March 2017

South America
- First South America regional workshop: Lima, Peru, January 2016
- Sustainable energy for rural communities in Bolivia: La Paz, Bolivia, April 2016
- Media workshop, Paraguay, July 2016
- Resilience, Ecuador January 2017

Central America and Caribbean
- Opening regional workshop, Dominican Republic, November 2016

UK
- 2nd Forward Look workshop: Potential breakthroughs in the use of energy in off-grid villages: December 2015
- Business and financial models: January 2016
- 3rd Forward look Workshop: Frontier energy storage technologies: Edinburgh University, May 2016
1. A key aim: identify framework conditions to:
   - foster entrepreneurial activities in delivering & using energy services
   - maximise leverage of public sector funding

2. An underlying premise: to maximise social benefit and development impact:
   - integrate energy access with other development initiatives
   - take a community level approach

3. An important concern:
   - to catalyse rapid progression through the various levels of energy access
Thank you for your attention

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