



CILUNESCO World Forum

ducation, Research and Innovation'

Sustainable Development

for The Reople for The Earth

At Trieste, Italy May. 11th, 2007 Adviser and Past-President Kyocera Solar Group ISAO YUKAWA

Menu **About KYOCERA Climate Change** ucatio **KYOCERa** Company Confidential Property

1. About KYOCERA

Kyoto Ceramic Co., Ltd. is founded as a company specializing in fine ceramics with a capital of 3 million yen and 28 staff members.

Established : April 1959

after 39yr

Founder and Chairman Emeritus: K. Inamori

Chairman: N. Nakamura

President: M. Kawamura

Capital: JP\ 115,703,000,000

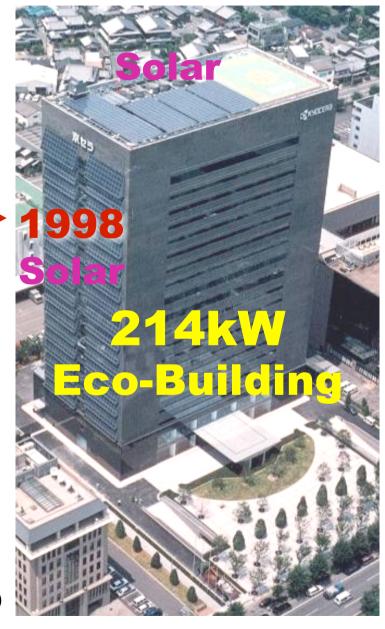
Employees : 12,457

KYOCERA Group

Sales : US\$ 11,814,890,000

Employees : 61,468

(Mar.2006)



KYOCERA Philosophy

Respect 3 / Zove the Divine 3 / People



Preserve the spirit to work fairly and honorably respecting people, our work, our company and our global community.

Kazuo Inamori
Founder and
Chairman Emeritus

Rationale

To provide opportunities for the material and intellectual growth of all our employees, and through our joint effort, contribute to the advancement of society and humankind.

Management Philosophy

To coexist harmoniously with nature and society.

Harmonious coexistence is the underlying foundation of all our business activities as we work to create a world of abundance and peace.

Kyocera's Corporate Motto



2. Climate Change: Global Warming-Green House Effect

IPCC: "Very likely" Global Warming by Human Activity

Stern Review:

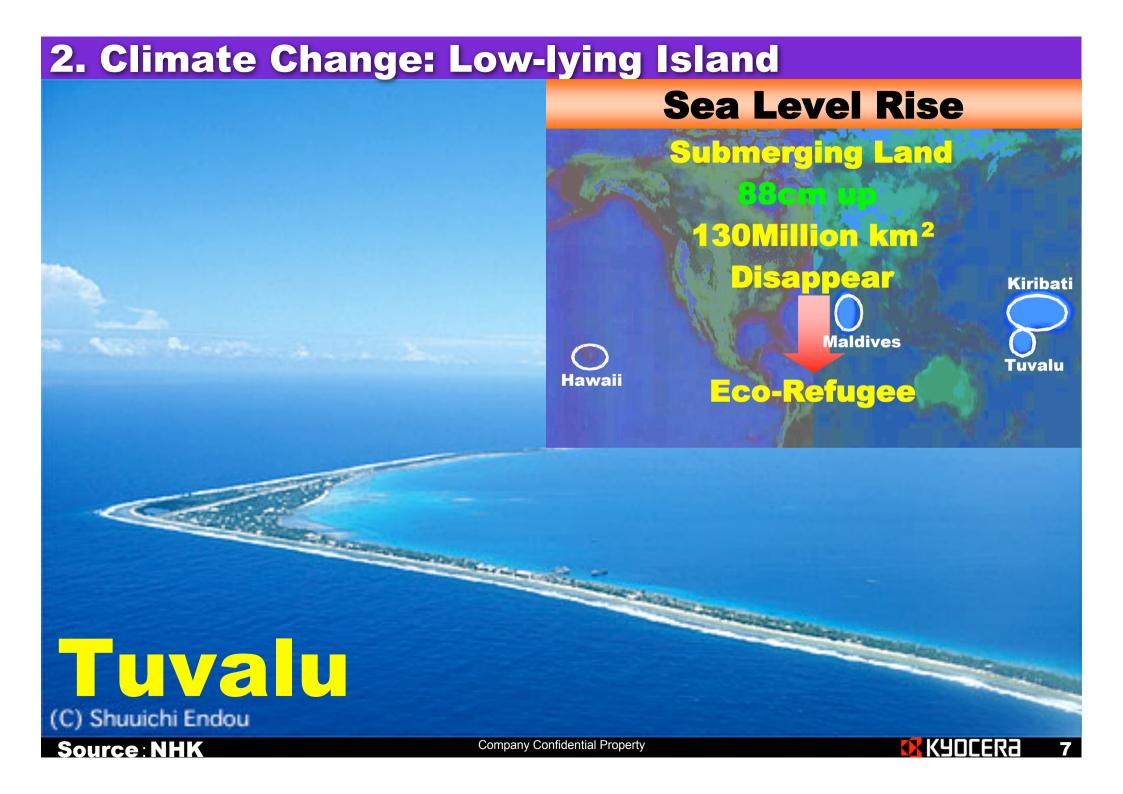
Sense of Urgency

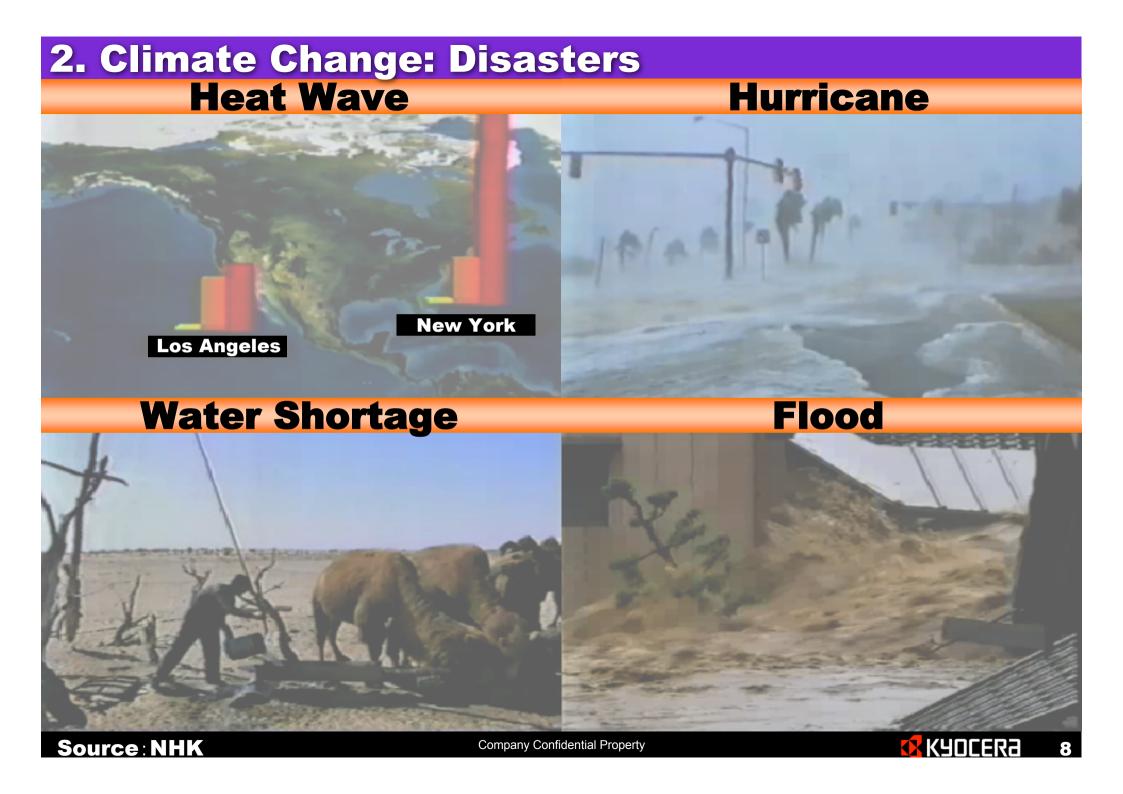
- 1 °C Small glaciers in the Andes disappear completely
 - Threatening water supplies for 50 million people
 - 80% bleaching of coral reefs
- 3°C Onset of Amazon forest collapse
 - 170 million people affected by coastal flooding
 - In Southern Europe, serious droughts occur once every 10 years
- 5°C Decrease water availability one-quarter of China's population
 - Disappear large amount of glaciers in Himalayas
 - Continued increase in ocean acidity
 - Sea level rise threatens NY, Tokyo, Florida

EU G8: German Chancellor Merkel committed RE use 20% by 2020.

Source: IPCC / Stern Review

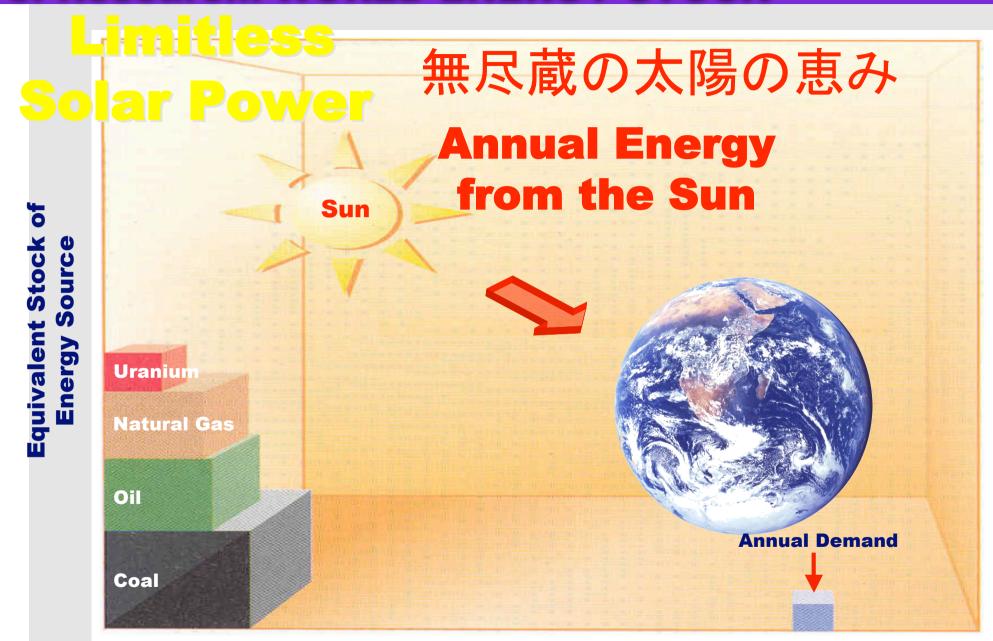
Company Confidential Property





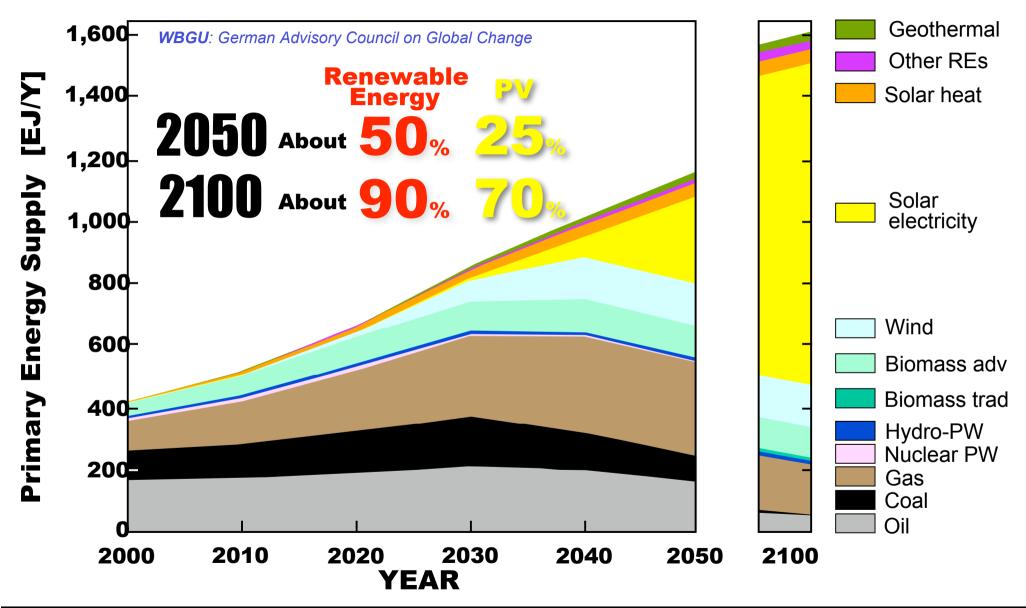


3. Research: WORLD ENERGY STOCK



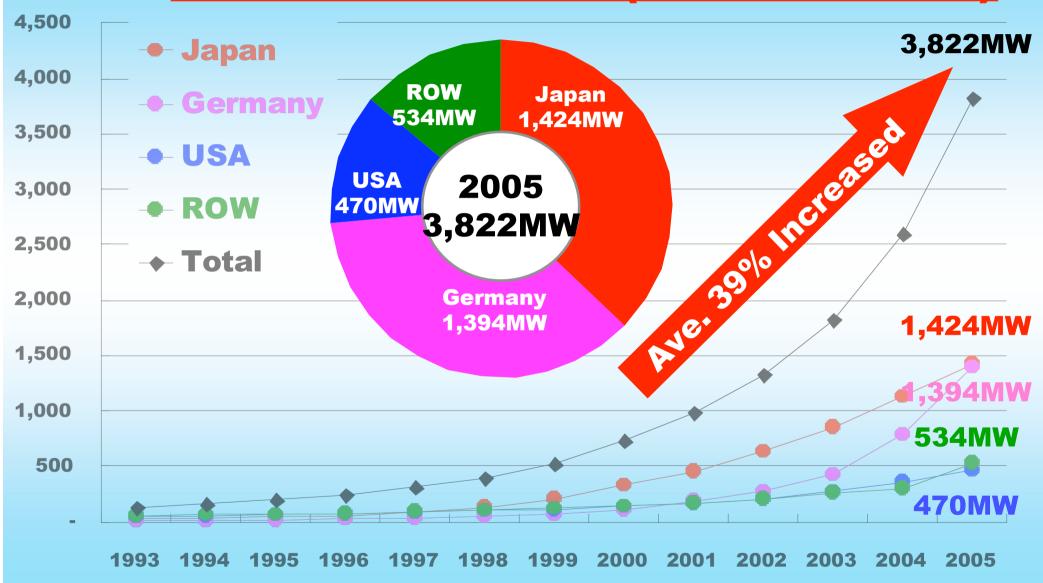
3. Research: WORLD ENERGY TREND

WBGU's World Energy Vision 2100

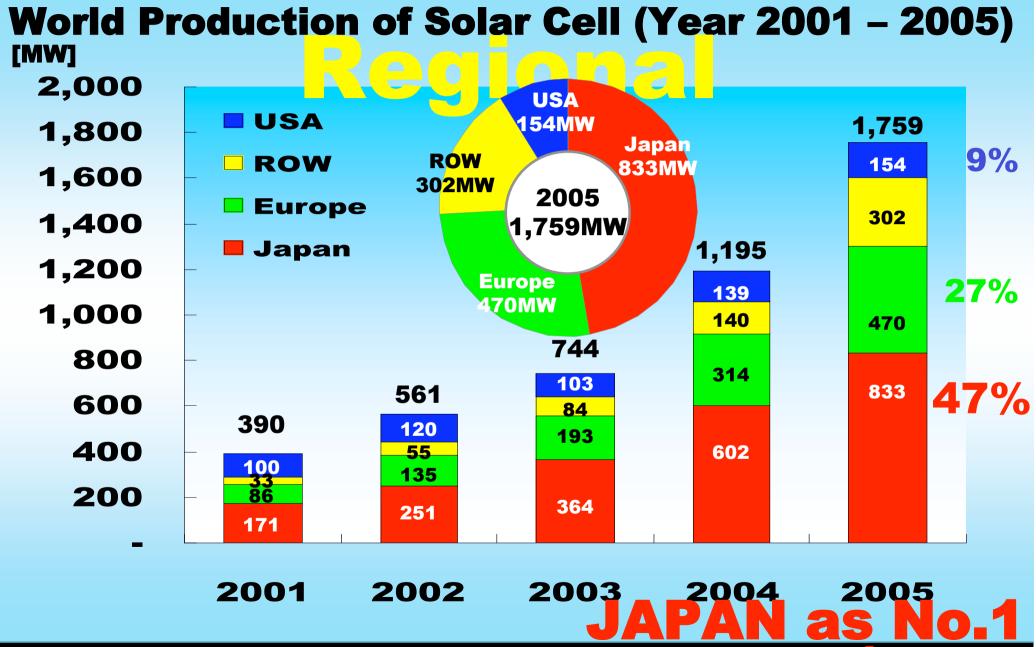


3. Research: PV Cumulative

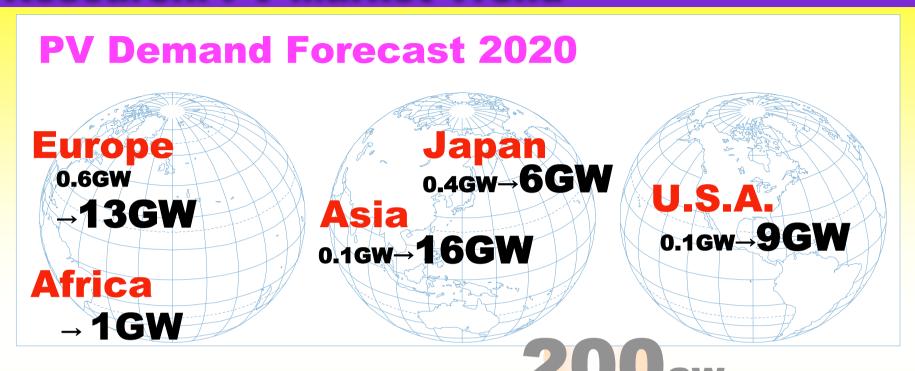
[MW] PV Installation (1993~2005)

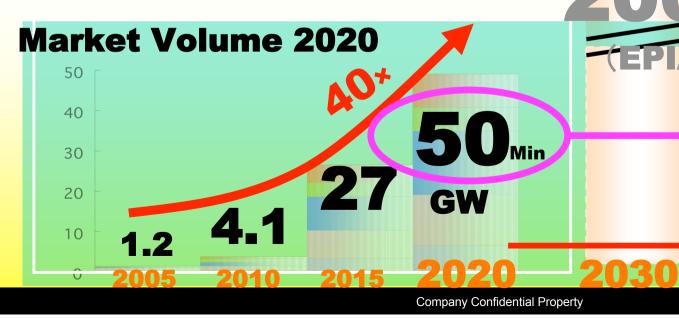


3. Research: Cell Production



3. Research: PV Market Trend





same as current **Greece**



1 billion people 1.2 billion people

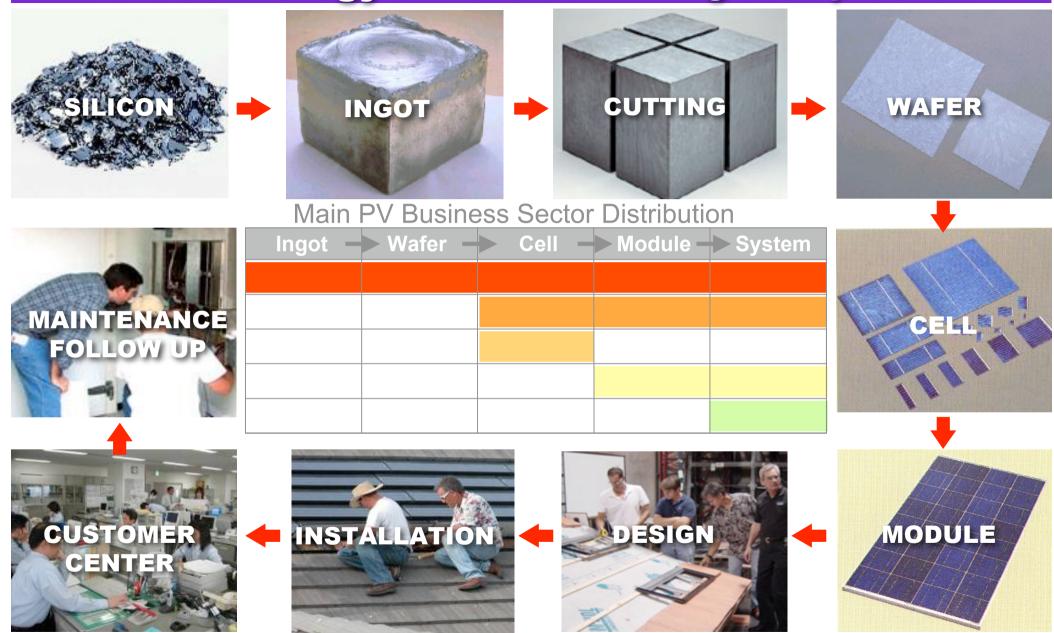
Source: JBIC

No Access

to clean Water to improved Sanitation

4. PV Technology Innovation: KYOCERA Solar History ocera established Japan Solar Energy Corp. (JSEC) Mass Production of Polycrystalline Silicon Solar 1982 Achieved our 10 cm2 Polycrystalline Solar Cells 15.1%. 1987 **IW Plant** Achieved our 15 cm2 Polycrysts 1996 Energy Co., L.D. China 2003 **Established Kyocera (Tianji** Achieved our 225cm2 Polycrystalline Solar Gells 1777 (W.R)2004 Established Kyocera Mexicana, SA de CV. Mexico 2005 Established Kyocera Solar Europe. Czech Republic Poly-Crystalline Silicon: World Record Holder Module: Global Production (4 countries)

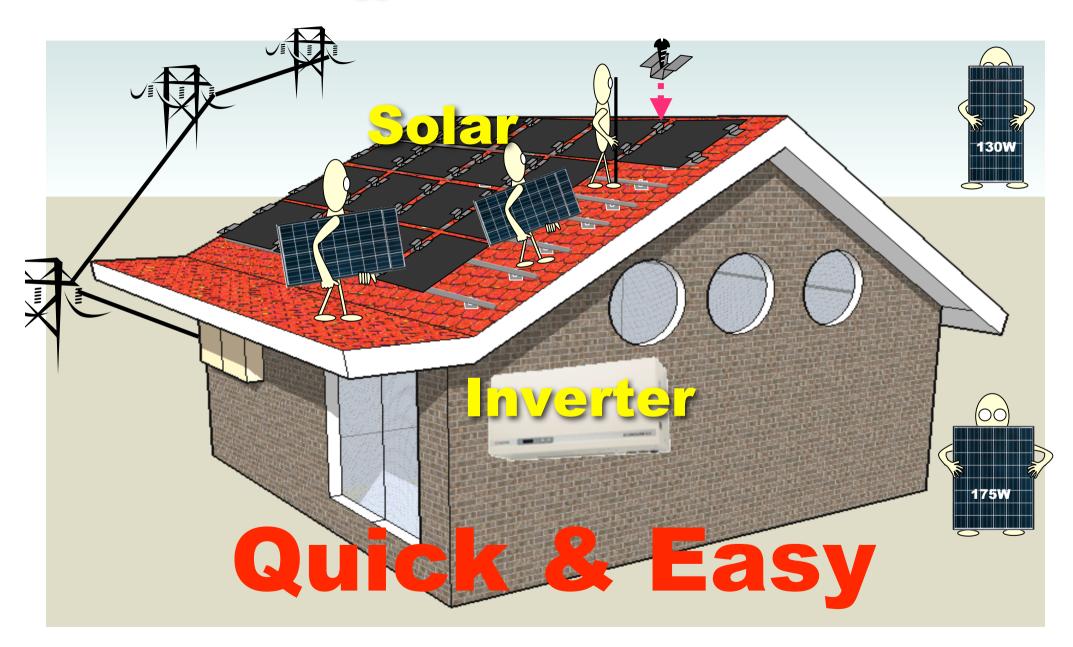
4. PV Technology Innovation: Integrated process

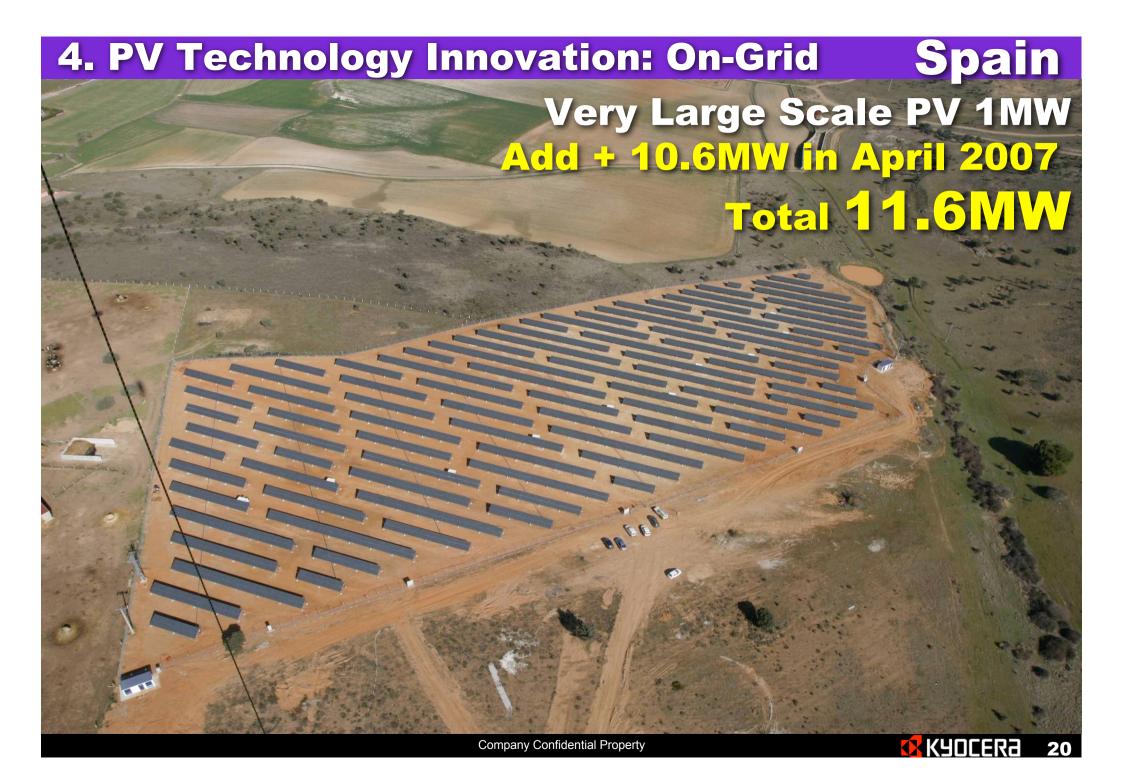


4. PV Technology Innovation: Solar Center



4. PV Technology Innovation: On-Grid







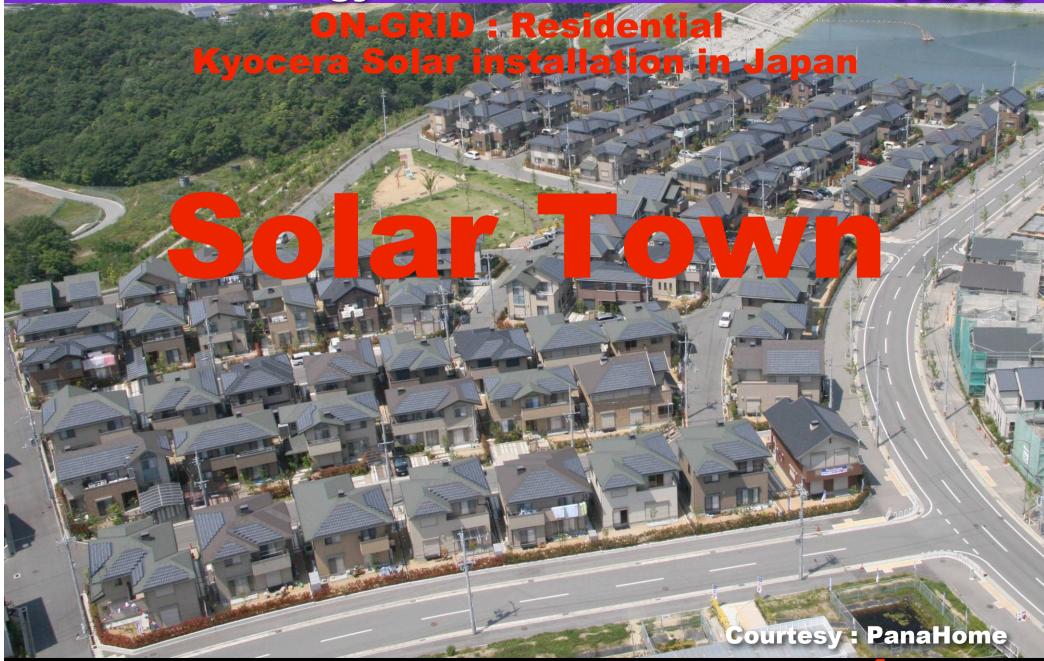
4. PV Technology Innovation: On-Grid

Tokyo





4. PV Technology Innovation: On-Grid Kobe





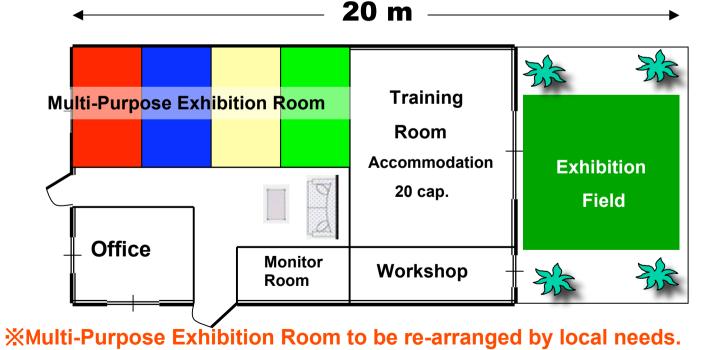
5. PV Education

Packaged MULTI Purpose Mini Solar Center Outline









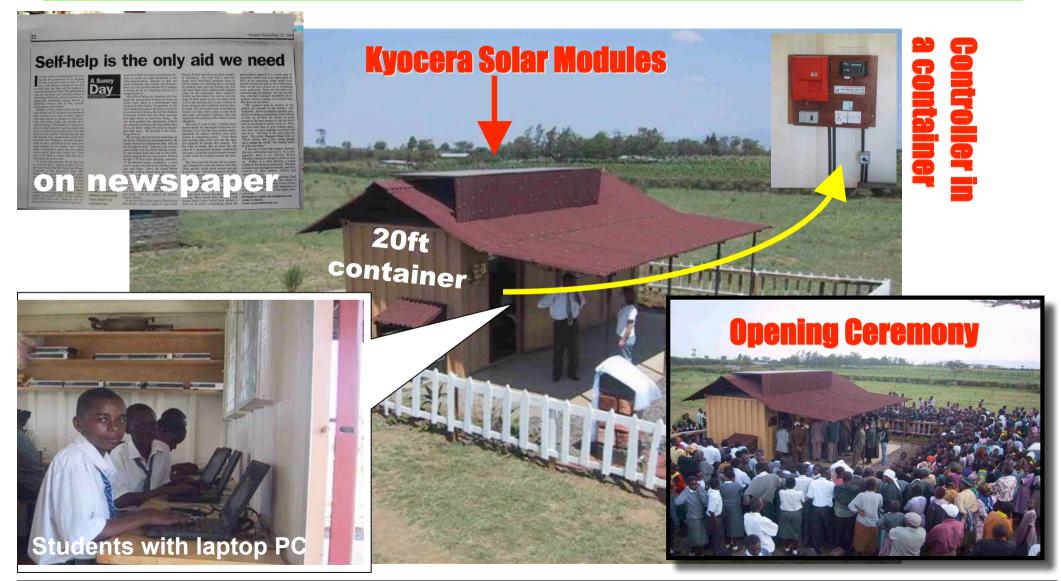
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Utilities Required

- Electricity; 50KVA
- Water service
- Telephone lines

5. PV Education: Off-Grid

What a wonderful School in Kenya



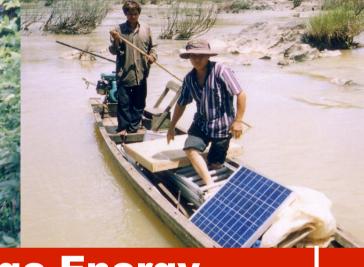
5. PV Education: Off-Grid

Cambodia

Truck → Cow → Boat







Solar Energy >> Knowledge Energy







IT School

Installation

Hand



5. PV Education: Promotion & Awareness Development





5. PV Education: KYOCERA PV Promotion Activities

What solar panels can do 2

"Now I see a town. People are using solar panels all around town, at lots of places, like on houses, schools, soccer fields, hospitals, and the airport.

Wow, I didn't know they were used at the South Pole, too."





ANGA

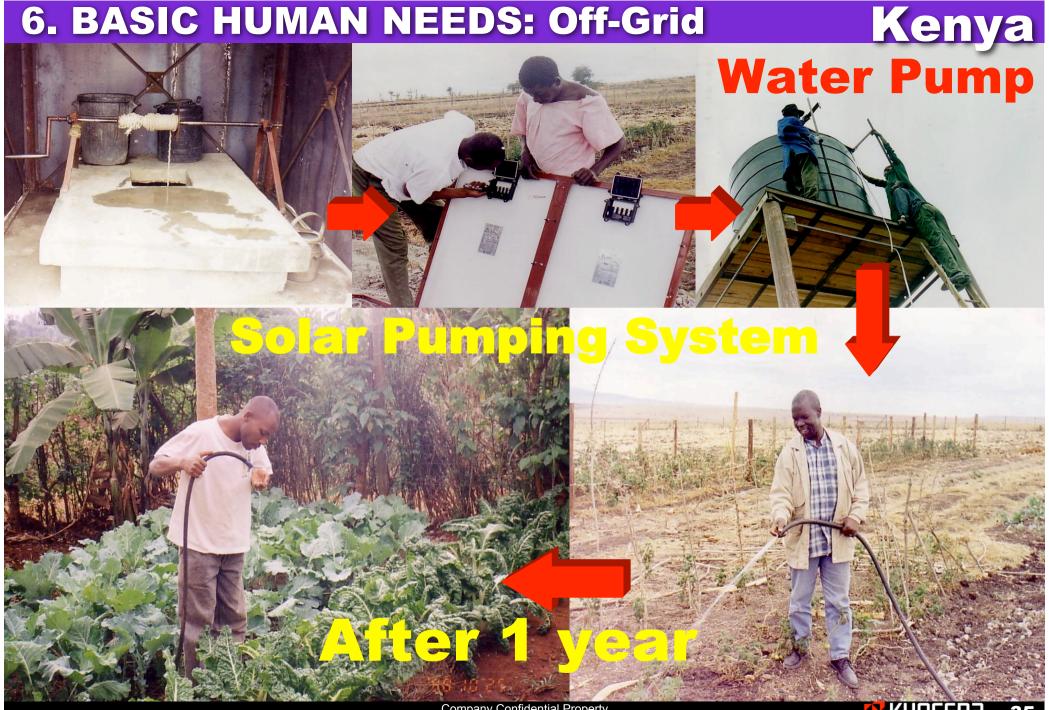
"Here comes a panel delivered to a small village by bicycle. Will the electric lights really come on? Oh, here's the light! Wow! That's great!"

"One solar panel is a magic panel to make life better."



6. BASIC HUMAN NEEDS: Off-Grid Bangladesh





6. BASIC HUMAN NEEDS: Off-Grid Vietnam



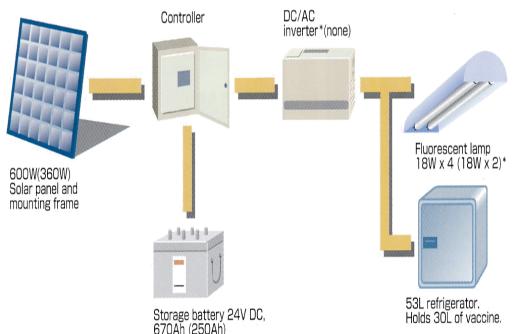


For the pumping



6. BASIC HUMAN NEEDS: Off-Grid





a/Clinics

Conserving vaccine and other sensitive medical supplies is crucial to the health of rural people.

Kyocera has been a global leader and earned a World Health Organization (WHO) and **UNICEF** designation as a **Qualified System Supplier** of solar powered vaccine refrigeration systems.





6. BASIC HUMAN NEEDS: Off-Grid Bangladesh

SHS powered mobile phonesconnecting people around the world



6. BASIC HUMAN NEEDS: Off-Grid

Sri Lanka





美しい地球を次世代に



What a Wonderful Job to be thankful

太陽の恵みに感謝して 愛と誠と調和をベースに生きる