


The background of the slide features a light beige, textured surface with several dried, pressed leaves. One leaf is prominent on the left side, extending vertically. Another leaf is on the right side, partially overlapping the text. The overall aesthetic is natural and organic.

CARICOM REGIONAL ENERGY AWARENESS PROGRAMME

SUSTAINABLE ENERGY FOR CARIBBEAN EDUCATORS WORKSHOP

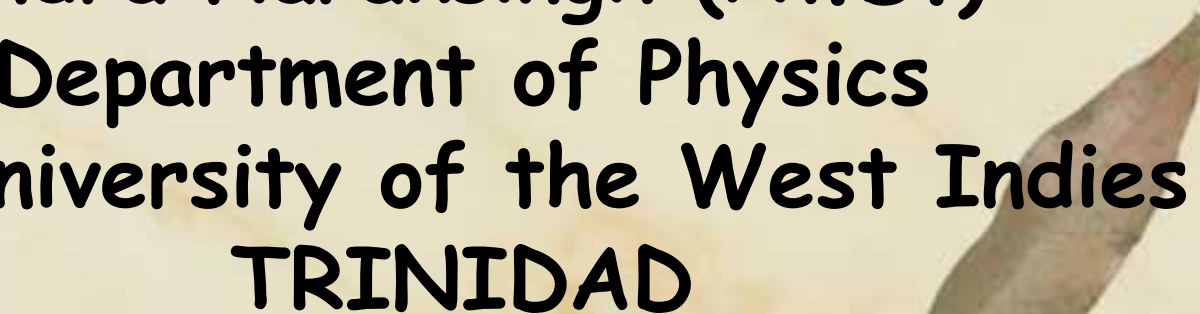
12 September, 2012

P. N. Praksingh (Ph.D.), The University
of the West Indies



UWI INITIATIVES FOR SUSTAINABLE ENERGY IN THE REGION

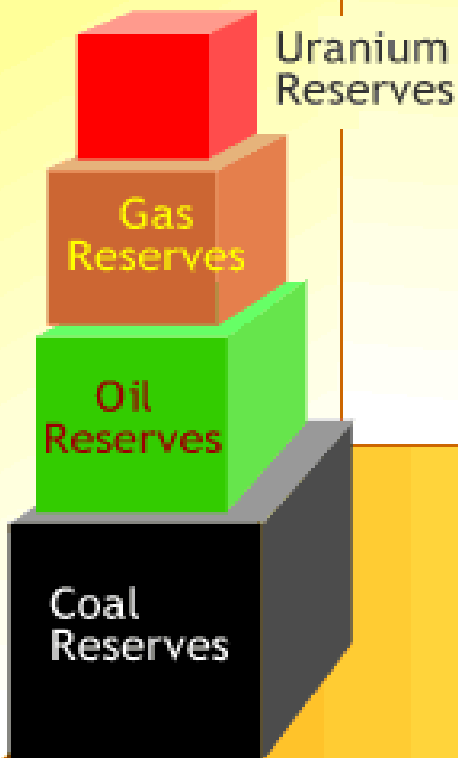
Indra Haraksingh (Ph.D.)
Department of Physics
The University of the West Indies
TRINIDAD



Total Annual Solar Energy



World's Annual
Fossil Fuel
Consumption



I. Haraksingh (Ph.D.), The
University of the West Indies



UWI - RESEARCH

- Research into solar energy started since the 1970s
- Technologies of relevance to the Caribbean developed
- Solar drying, distillation, cooking refrigeration
- Photovoltaics
- Wind Energy

UWI - TRAINING INSTITUTION

- UWI has been the leading institution in the region for training.
- Alternative Energy Education Dissemination project with OAS
- University consortium with INEES and DIREKT projects
- INEES: Lead partner – University of Flensburg, Bangladesh University of Engineering & Technology, Kwame Nkrumah University of Science & Tech., University of Columbia, UWI
- DIREKT: Lead partner – University of Hamburg, UWI, Universities from Fiji and Mauritius

UWI - INSTITUTION OF LEARNING

- **UWI continues research and development in various fields of renewable energy**
- **UWI Cave Hill recently conducted training workshops in Solar PV and Biogas Technology involving personnel from various disciplines, including the Agricultural sector**
- **UWI Trinidad workshops: Geothermal Energy, Solar Thermal Energy, Solar PV, Wind Energy**
- **UWI will be soon expanding its offerings, MSc in Renewable Energy and MSc in Renewable Energy Management**
- **UWI takes the lead in training**

UWI - TRINIDAD

- **The re-positioning of the Faculty of Science and Agriculture**
- **From ICTA to Faculty of Agriculture**
- **From Faculty of Agriculture to Faculty of Science and Agriculture**
- **Now from Science and Agriculture to Faculty of Science and Technology and Faculty of Agriculture and Food Production so the latter can better respond to the changing local/regional/international environments.**

UWI – Min.of Energy & Energy Affairs

- **REC in Trinidad**
- **Mandate to expand no of trained personnel in the country in RE**
- **Training workshop for various sectors of the community**
- **Most recent, Teacher training workshop in T&T**
- **Areas covered: Solar Thermal, Solar PV, Wind Energy, LED lighting, SWH, Financing – Smart fund**



First Wind Senator in the Caribbean

Dr. Rawatee Maharaj-Sharma, lecturer in the Science Education and coordinator of the Bachelor of Education programme at UWI, Dr. Maharaj-Sharma received training from July 29th-August 4th, 2012 in Maine, USA. She is certified to provide training and represent WindWise and KidWind at conferences, events and workshops. But most importantly, she got the tools and information to teach to her students and the public about wind energy.

UWI - TRINIDAD

- **Teachers' workshop involved practical work**
- **Solar Energy laboratory work, Fuel Cells lab, Environmental Physics Lab.**
- **KIDWIND lecture and activity**
- **First**
- **Various aspects of Wind Energy investigated – Blade configuration**
- **Exciting from Teachers' standpoint**
- **Best way of learning – through do-it-yourself activities**
- **Limited activities in Tobago - but KIDWIND was explored.**



ENERGY EFFICIENCY AND CONSERVATION

- Critical that students understand the critical nature of EE and EC
- EE alone can reduce load by 20 -30 %
- This results in a significant reduction in energy demand

FIELD TRIP - TTEC TOBAGO



TEACHERS AND CHILDREN AT WORK (OR PLAY?)



CLASSROOM SETTING



GROUP PHOTO



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