

CARIBBEAN EXPORTERS' COLLOQUIUM

Session 7:

Alternative Energy: The Region's Transition to Sustainable and Energy Efficient Economies

Our Task this session.....

- What role should governments play in supporting the development of the alternative/renewable energy sector to ensure sustainability and competitiveness?
- What can the private sector do to reduce high energy costs and how can they integrate alternative/renewable energy solutions into their production processes?
- Are there regional or international public/private sector collaborations which can be used as best practice models?

What should Governments be doing.....?

- Adopt best practice – leap frog technology!
- Set targets for renewable energy of 35% - currently 8%!!!
- Remove VAT on EE and RE
- Increase Tax Credits & Incentives for EE & RE
- Introduce rebates for energy reduction
- Promote Electric Vehicles – Nissan Leaf's
- Set and Example on EE
- Install LED Street Lights
- Buy Electric Buses
- Public Education – Raise Awareness!

What should the private sector be doing?

- ***Energy costs are an impediment to growth***
- Reduce consumption – LED Lighting
- Change behavior's
- Use renewable energy – Solar/wind
- Focus on energy efficient technologies
- Set targets and monitor
- Put pressure on Governments! And hold them to account!!!!

Taking on the Dragon.....

- Why import when we can manufacture here?
- Public Private Partnerships (PPP)
- The Private Sector is ready willing and able!
- We need Government support not necessarily subsidies



Context

- There is no Plan B for our planet!
- We have to think and act differently and do it now!
- We have to use the wind, sun and technology
- Conventional Utilities are in a “death spiral”
- 2/3rds of Global PV has been installed in the last 2.5 years
- Solar is PV is now the second largest source of new electricity in the USA – 53% of all new electric installations



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Context

- According to IEA “Peak Oil” was reached in 2006
- Wind Power is now growing at 30% annually
- 41.6 Gigawatts of Wind Power currently installed
- 136.6 Gigawatts of Solar PV currently installed
- World solar capacity increased 35% in 2013
- China has 40% of global wind power
- Renewable Energy is the *FUTURE*
- Energy efficiency is now critical
- LED is the “low hanging fruit”





Top 3 trends

- Recent LED chip performance advancements, which allow more cost effective designs for replacing existing lightings systems
- Newly introduced utility energy efficiency financial incentives for converting to these LED-based systems
- Increased interest from building owners in applying sustainably-oriented lighting retrofits that save money in operation



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Our Focus

- **Energy Efficiency (EE) - Our LED Business**
 - Our first J curve with fast growth over next 4 years
 - Moore's law applies
- **Renewable Energy (RE) - Winsun**
 - Entering the Creative Market
 - Inter American Development Bank backing & support



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Context

“90% of the world’s lighting will be LED by 2018”

Hans Van Wijngaarde, Global Sales manager,
Phillips Lighting, 2009



Why LED?



Pro environment
•Zero mercury
•50% + savings



Plays nice with others!
i.e. existing lighting



Simple to specify



Improved light quality



Easy to install
& maintain



The best deal in town



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What happens to the old fluorescent tubes?





WINSUN
Caribbean Energy

WINSUN embodies an innovative future vision for the Caribbean where the choice of “grid” versus “off-grid” energy supply is real.



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WINSUN

Caribbean Energy

With an “off grid” option we will be able to:

- spawn a range of new products
- stimulate new business models
- create competition & so more innovation
- create jobs and increase earnings

...across the Cariforum Region



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WINSUN

Caribbean Energy

- “technology bundling” approach
- sourcing best tech globally
- novel in this context
 - reduces risk
 - rapid development
 - improves time to market
 - makes greatest impact!



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WINSUN

Caribbean Energy

- currently evaluating:
 - battery tech from US
 - turbines from UK
 - PVs from Israel



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Thank you.....

- Now over to our next panelist....