

# EDIN in the USVI Overview & Progress



# **VIRGIN ISLANDS ENERGY OFFICE**

The Virgin Islands Energy Office is designated the “state agency” for the planning, oversight, and coordination of energy programs mandated by federal law, and for administering the U.S. Virgin Islands energy programs

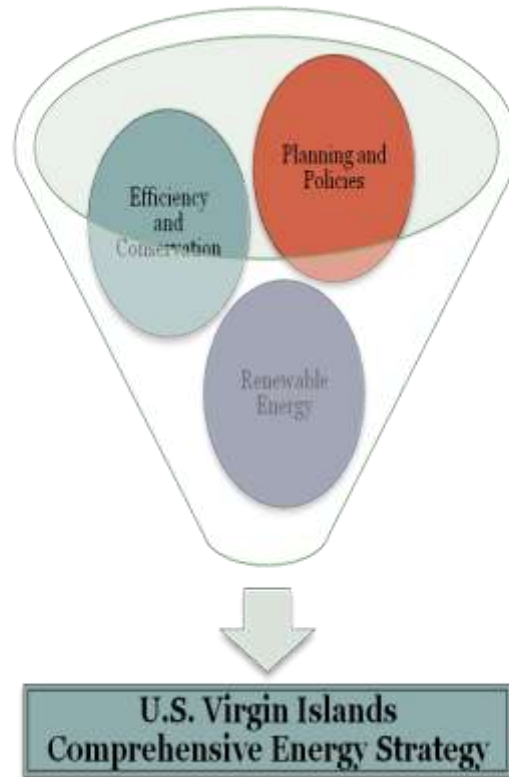
# Mission Statement

To promote energy efficiency and advocate the use of renewable energy technology for the public and private sectors, and residents of the Virgin Islands through energy education, outreach, financial incentives, and technical assistance.

# U.S. VIRGIN ISLANDS COMPREHENSIVE ENERGY STRATEGY



# Managing the Strategies



# Act #7075

## Solar and Wind Energy System Incentives

- 1122 – Mandate for the utilization of solar water heating in “new developments or substantially modified developments”
  - New development means all new residential, commercial, and government development
  - Requirement is for at least 70% of water heating (measured how?)
  - Commissioner of DPNR can grant waiver to mandate
- 1123 – Requires VIEO to offer rebates to residents and businesses on:
  - Solar water heating systems
  - Wind-powered energy systems
  - Photovoltaic energy systems
    - *The language prescribing the amounts of the rebates was stripped from the final act through line item veto*

# **Promote, Assist, and Provide Financial Assistance**

- Rebates
- Loans
- Grants

# Energy Star Appliance Rebate \$850,000

30% off retail price



# Renewable Energy Rebate Program

**50% rebate up to  
\$13,500**



# Rebated Renewables

ITEM	KILOWATTS/ GALLONS	DOLLAR VALUE
Photovoltaic Panels	239.1	\$790,729
Wind Turbines	22.5	\$84,000
Solar Water Heaters (151)	11,619	\$229,932

# SUN POWER LOAN STATISTICS YTD

## Period Ending: March 30, 2011

	YTD				
	Total - VI		STT/STJ		STX
Sun Power Loan Applications	<b>450</b>		<b>211</b>		<b>239</b>
Value of Loans	\$ 1,080,342		\$ 549,467		\$ 530,875
Value of Rebates	\$ 1,005,158		\$ 490,637		\$ 514,521
<b>Total Revenues</b>	<b>\$ 2,085,500</b>		<b>\$ 1,040,104</b>		<b>\$ 1,045,396</b>
Number of Loans Closed	<b>364</b>		<b>166</b>		<b>198</b>
Value of Loan Payments	\$ 859,493		\$ 426,965		\$ 432,528
Number of Rebate Applications	<b>364</b>		<b>166</b>		<b>198</b>
Value of Rebate Payments	\$ 805,350		\$ 382,452		\$ 422,898
<b>Total Funds Expended</b>	<b>\$ 1,664,843</b>		<b>\$ 809,417</b>		<b>\$ 855,426</b>

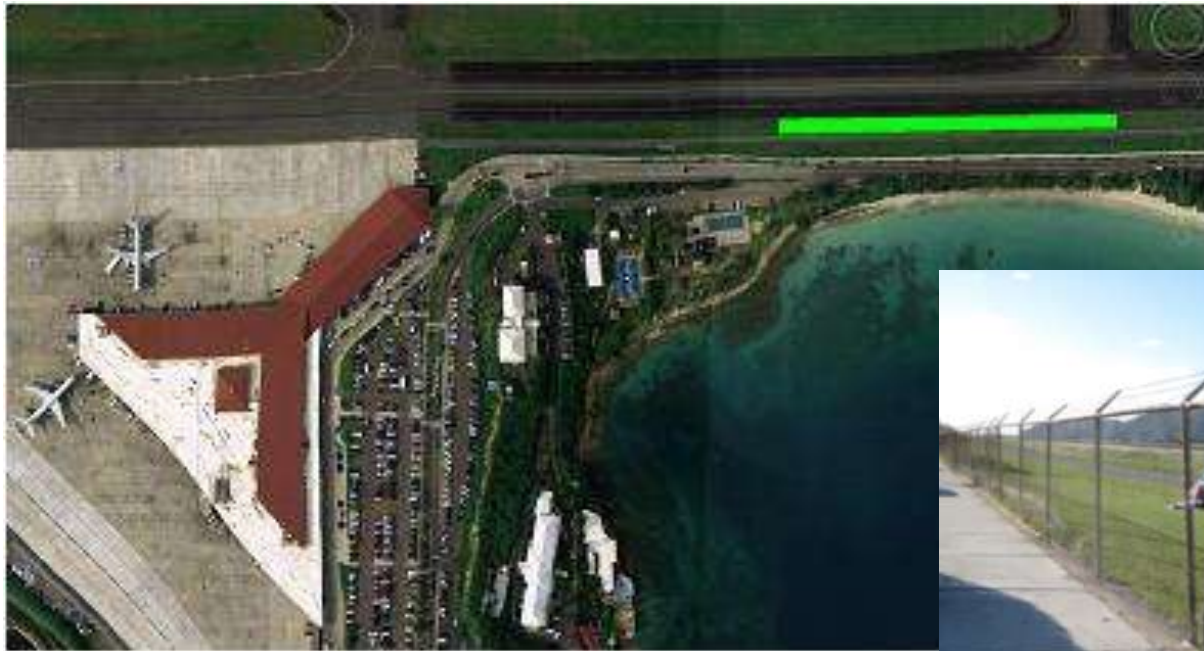
# Act #7075

- **1130. Energy Efficiency Standards**
  - Each Government agency and instrumentality shall design and construct buildings to optimize solar water heating, including new residential facilities
  - Each Government agency and instrumentality shall purchase energy efficient equipment where available
  - Each Government agency shall:
    - Purchase the most fuel-efficient vehicles that meets its needs
    - Promote the efficient operation of vehicles
    - Collect and maintain information on the performance of each vehicle regarding fuel use in order to evaluate its fuel efficiency
  - The Commissioner of DPNR may waive permit fees for the installation of renewable or alternative energy systems and shall expedite the permitting process

# Discretionary Grants to Nonprofits

Technology/Project	Total Award to date	Quantity
Photovoltaics/Solar		7
Efficient Lighting		7
Efficient Air-Conditioning		3
Energy Education		2
Wind Turbine		1
	<b>\$896,815</b>	

# VI Port Authority Solar PV System



**6.7% of  
aggressive  
PV goal!**



- Contract awarded for 450 kW DC
- One of the largest in the Caribbean
- Preconstruction meeting Nov. 4th
- Purchased with ARRA funds
- Groundwork for larger utility-scale

# WAPA Installed 200 of 973 LED Streetlights



# Act #7075

- **1151. Renewable Energy Portfolio Standards**
  - The peak demanded generating capacity of WAPA must be derived by renewable energy technologies as follows:
    - 20% - January 1, 2015
    - 25% - January 1, 2020
    - 30% - January 1, 2025
  - These targets coincide with:
    - WAPA's preliminary strategic planning goals
    - The Energy Office's Comprehensive Energy Strategy
    - The governor's goal of 60% reduction of fossil-fuel derived energy
  - Rules and regulations need to be promulgated to effectuate the RPS

# Act #7075

- **1147. Utilization of Renewable Technologies by WAPA**
  - The utility shall ensure that electrical energy is generated using a diverse range of fuels and technologies
  - The utility shall develop a 10-year plan to increase the efficiency of its energy generation

# Act #7075

- **1129. Renewable Energy in Public Buildings and Vehicles**
  - Each government agency and instrumentality shall install solar water heating systems where it is cost-effective as determined by comparative life cycle analysis
  - Government agencies and instrumentalities entering into leases, including renegotiation or extension of leases, shall:
    - Incorporate lease provisions that require energy efficiency
    - Include a preference for facilities with an “ENERGY STAR” certification in their selection criteria
    - Encourage lessors to seek “ENERGY STAR” certification and implement projects to reduce utility costs to the Government

# Act #7075

- **1129. Renewable Energy in Public Buildings and Vehicles**
  - The Department of Property and Procurement is to demonstrate a commitment to the use of renewable energy sources in buildings owned or operated by Government of the Virgin Islands
  - By July 3, 2011 the Department of Property and Procurement, in conjunction with the Energy Office shall establish an energy-efficiency fleet management plan

# Act #7075

## Solar and Wind Energy System Incentives

- 1124 – Customs duty and excise tax exemptions
  - Equipment or components for the manufacture of solar water heaters, wind systems, or solar energy systems are exempt
  - Appliances and lighting that use direct current (DC) electricity
  - Retailers and installers are to pass savings on to customers
- 1127 – Renewable sources inventory
  - By January 3, 2010 the VIEO shall submit an inventory of renewable and alternative energy sources to the Legislature; and
  - A projection of future inventories
    - *The sources of energy in the Virgin Islands are well-known, well-documented and will not change dramatically in the near future*
- 1128 – Establishment of a solar energy training program in conjunction with the V.I. Department of Energy by Nov. 3, 2011

# Thank You

## Questions?

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