

HPMP Implementation

Saint Lucia's Progress



HPMP Background

- **Approval:** 64th ExCom – July 2011
- **Launch:** September 2011
- **SSFA Tranche 1:**
 - **Start:** June 2012
 - **End:** December 2013



HPMP Tranche 1

Objective 1:

Strengthen the existing licensing system to ensure it responds to the accelerated phase-out of HCFCs

Achievements:

- Meetings with key stakeholders convened to discuss procedures for 2013 baseline freeze
- Montreal Protocol Regulation revised to incorporate flaws identified by stakeholders
- Training of Customs Brokers and Shipping Agents



HPMP Tranche 1

Objective 2:

Establish standards for the transportation, handling and storage of refrigerants

Achievement:

- Meetings with Saint Lucia Bureau of Standards (SLBS)
- Proposal submitted to SLBS
- Process commenced in November 2013 – 18 month



HPMP Tranche 1

Objective 3: Review of customs training manual and training of enforcement personnel

Achievements:

- Two (2) Customs Training Sessions held in November 2012
 - 27 Customs Officers
 - 5 Marine Police Officers
- Training Manual reviewed by Monitoring, Evaluating and Reporting Consultant



HPMP Tranche 1

Objective 4: Establish procedures to monitor the servicing of Saint Lucian flagged vessels

Achievement:

- *Saint Lucia Air and Sea Ports Authority Act* requires ships to keep records which may include a list of ODS and equipment that contain ODS
- MARPOL Annex VI calls for ships to maintain a list of ODS and ODS equipment on board
- NOU entered into discussions with SLASPA on its intention to ratify MARPOL Annex VI



HPMP Tranche 1

Objective 5: Devise mechanisms for introducing climate and energy efficiency considerations of alternative refrigerants to replace HCFCs

Achievement:

- Increased collaboration with the Energy, Science and Technology Section and Climate Change Team
- Seminars with main users of HCFC based technology
- Sensitisation of heads and politicians



HPMP Tranche 1

Objective 6: Conduct public awareness activities to inform about HCFC alternatives among the private sector and support activities related to the commemoration of the International Day for the Preservation of the Ozone Layer 2013. - **Extension June to Dec 2013**

Achievement:

- Alternative technologies Exhibition
- Radio Talk Shows
- T-Shirt campaign
- Dissemination of technical material to technicians
- E-blast by Bank of Saint Lucia (*Over 2000 persons*)
- Newsletter and Newspaper Articles



HPMP Tranche 1 - UNIDO

Objective – Provide some of the tools and equipment necessary to enable technicians to implement demand reduction practices.

Achievement:

- Country visit by UNIDO
- Meeting with RAC association to determine needs of sector
- Bidding process for tools by UNIDO
- Tools procured from TST-STAG (US\$82,000.00)
- 100% of Tranche 1 funds expended

Outstanding:

- Upgrading of main training centres



HPMP Tranche 2

Approval: 68th ExCom – December 2012

Planned Activities

- Training of technicians in good refrigeration management practices
- Develop Advanced course
- Public Awareness Campaign
 - Emerging technology options
 - Economic and environmental benefits
 - Health and safety



Advanced Course Option 1

Goal: Development of an *Advance* RAC Training Programme/Course, within higher education institutions

Approach

- Collaboration between SALCC/CARICOM Regional Organisation for Standards and Quality (CROSQ)
- CROSQ - is a regional centre for promoting efficiency and competitive production. CROSQ is seen as the focal point for standards and quality within the Region. It is also involved in the standardization of curricula across the region.



Advanced Course Option 2

Goal: Development of an *Advance* RAC Training Programme/Course, within higher education institutions

Approach

- Collaboration between Saint Lucia and UTech, Jamaica to develop a regional Advanced Air Conditioning & Refrigeration Course.



Advanced Course Option 2

Course Description:

From a Thermodynamics perspective, this course seeks to extend that knowledge within a mechanical engineering context. It also provides a solid foundation for further studies in system design. Using an applications approach, theory and practice are integrated to develop the problem-solving skills necessary to the refrigeration and air conditioning profession.



Advanced Course Option 2

Course Content:

- Vapour Compression Cycle
- Factors Affecting Cycle performance
- Expansion Devices
- Refrigerants
- Auxiliary Components
- Compressors
- Condensers
- Cooling towers
- Evaporators
- Psychrometry and Human Comfort
- Basic Air Conditioning Cycle
- Air Conditioning Systems
- Practicum



Advanced Course Option 2

Proposed delivery method:

- Modular
- On line
- One week intensive in-country review and exam preparation session
- Recognised certification



Advanced Course Option 2

Target Audience:

A pilot group of 30-35 persons will be identified from:

- Jamaica
- Saint Lucia
- Grenada
- Dominican Republic

*Prof. Horace Nelson – to develop a fill-in specification sheet to be circulated through the Air Conditioning & Refrigeration Associations for each pilot country to determine the current AC equipment Status



Advanced Course Option 2

Steering Committee:

- The Air Conditioning & Refrigeration Associations and/or UNEP representative for each pilot country
- Donnalyn Charles, Permanent Secretary, Sir Arthur Lewis Community College – St. Lucia
- Margaret Christian, Earle Wilson, Horace Nelson – Jamaica



Thank You

