

National Programme on Sustainable Consumption and Production (SCP) for Mauritius (2008-2013)

“Achieving More with Less”

VOLUME I

FINAL REPORT

Ministry of Environment and National Development

Unit in collaboration with UNEP

August 2008

With support from UNEP



Acknowledgement

Special thanks to:

Mr Sateaved SEEBALUCK, Permanent Secretary, Ministry of Environment and NDU

UNEP - Division of Technology, Industry and Economics

Project Consultant:

Prof. Toolseeram RAMJEAWON, University of Mauritius

Advisory Committee:

Chair

Oomaduth JADOO, Principal Assistant Secretary, Ministry of Environment and NDU

Co-Chairs

D Lan NG (Mrs), Director of Environment

P Kallee , Deputy Director, Ministry of Environment and NDU

Chairpersons of technical working groups:

Dr. K Coonjan, Executive Director, National Productivity and Competitiveness Council ; *Dr. P M K Soonarane*, Deputy Director , Technical Services , Ministry of Public Utilities; *L Juggoo* , Principal Engineer / *V Bissessur*, Senior Engineer / *D Jahajeeah*, Senior Engineer, Water Resources Unit; *P Kowlessar* , Director, Ministry of Local Government ; *T S Ramyeed*, Journalist , Mauritius Times ; *Mr F Wong*, Architect, Mauritius Association of Architects

Stakeholders in working groups and advisory committee:

K.Ah Nien, Ministry of Environment & NDU, *S Appadoo* , Ministry of Finance and Economic Development; *D Appalswamy*, National Productivity and Competitiveness Council (NPCC); *J Aukhez*, Ministry of Public Infrastructure, Land Transport & Shipping; *R. Awotar- Mauree*, Ministry of Information Technology and Telecommunications ; *D Babooa*, Mauritius Council of Social Services; *Dr. B K Baguant*, Quality Assurance , University of Mauritius; *P Bapoo- Dundoo*, GEF Small Grants Programme- UNDP; *B Beerachee* , Ministry of Local Government ; *R*

Bheekho, Ministry of Industry, Small & Medium Enterprises, Commerce & Cooperatives (Commerce Division) ; **Dr. R. Bholah**, Mauritius Institute of Education; **V Bissessur** , Water Resources Unit ; **G P Bobeechurn**, Central Water Authority; **Dr. C Bokhoree** , University of Technology ; **S Boodhoo** , Water Resources Unit; **C Boncoeur**, Ministry of Finance and Economic Development; **H. Buddhu**, Ministry of Youth & Sports ; **R Bundhun** , APEXHOM; **D Bunjun** , Mauritius Association of Architects; **V R Bumma** , Ministry of Housing and Lands ; **R.Callychurn** , Ministry of Public Infrastructure, Land Transport & Shipping ; **B Candassamy**, Ministry of Public Infrastructure, Land Transport and Shipping (Architects Division); **P Chaundee**, Ministry of Public Utilities; **J Chellum** , Association des Consommateurs de L'Ile Maurice ; **V Chingadu**, AHRIM ; **Coonjul** , Central Electricity Board; **C Dabeedin**, Central Electricity Board; **Dr. S Deenapanray**, Mauritius Research Council; **H K Dhunnoo**, Central Water Authority ; **Dr. K Elahee**, University of Mauritius; **D Ellapen**, APEXHOM; **J Ellapen**, Mauritius Standards Bureau; **R. Essoo** , ATICS ; **K F Ho Fong**, Mauritius Standards Bureau; **R K Foolmaun**, Ministry of Environment and National Development Unit; **S Gheerdharry**, State Trading Corporation ; **A Ghoorah** , Ministry of Environment and NDU; **A Gopaul**, Association of Quantity surveyors ; **T Guness**, Mauritius Standards Bureau; **R Hauzaree**, Irrigation Authority; **Dr. K Heeramun**, Enterprise Mauritius; **S Jingree**, Ministry of Public Utilities; **R Joorawon**, Ministry of Education and Human Resources; **C Jugroo**, Central Water Authority; **P Khurtoo** , NPCC; **Tony Lee Luen Len**, LEED AP, Ecosis Ltd; **J Lobin**, Municipality of Curepipe; **B Lobin**, Moka- Flacq District Council; **S Lukhoo**, Industrial and Vocational Training Board; **B Lutcmiah**, Ministry of Education and Human Resources; **R. Makoond** , Joint Economic Council ; **N Manic**, Ministry of Environment & NDU ; **Matadeen**, Enterprise Mauritius; **D Mariette**, Outdoor Advertising Association c/o Trait d'Union Ltée ; **D. Moodely**, AHRIM; **J Naugah**, Ministry of Environment and National Development Unit; **P Ng Cheong Tin** , Climate Change Action Forum; **S K M Padya**, Ministry of Public Infrastructure, Land Transport and Shipping (Architects Division); **P. Poinen**, Ministry of Environment & NDU; **K Poonoosamy** , Board of Investment ; **D Prithipaul**, Ministry of Environment and National Development Unit; **N Rainier**, L'Express; **Dr. B Rajkumarsingh**, Mauritius Research Council ; **N Ramburn** , AREU; **Dr. A Ramjaun**, Mauritius Institute of Education ; **C Ramma**, Institut Supérieur de Technologie ; **I Ramma**, Agricultural Research and Extension Unit; **H. Romsokok**, NPCC; **R Ramsurn**, Ministry of Finance and Economic Development; **Dr K Reesaul**, Ministry of Public Infrastructure, Land Transport & Shipping; **S Rungoo**, Ministry of Education and Human Resources (Rajiv Gandhi Science Centre); **M E Saumtally** , Small Enterprises and Handicraft Development Authority ; **K. Seebundhun** , Ministry of Finance and Economic Development ; **D. Seetaramoodoo** , Mauritius College of the Air ; **A Soobratee**, Ministry of Education and Human Resources; **D Subratty** , Ministry of Environment & NDU; **V Sujeebun**, Small Enterprises and Handicraft Development Authority ; **R. Sultan** , National Economic and Social Council; **N Thannoo** , National Housing Development Company Ltd; **N Toolsy**, National Productivity and Competitiveness Council ; **G M Veeramootoo**, Central Water Authority ; **D Vithilingum**, Ministry of Environment and NDU ; **Michel Wan Bok Nale** , Central Procurement Board; **L. Wong**, Mauritius Employers Federation (MEF); **A Wong Min** , Grandes Surfaces Reunies (GSR); **A Wozir**, Ministry of Public Infrastructure, Land Transport & Shipping ; **P Yvon**, Le Mauricien

National Programme on Sustainable Consumption and Production (SCP) for Mauritius (2008-2013)

Table of Contents

Content	Page
Executive Summary	9
Chapter I – Introduction	16-27
1. Introduction	17
1.1 Background	17
1.2 Purpose and Benefits of the SCP Programme	19
1.3 Strategic Priorities of the SCP Programme	22
1.4 Methodology and Reports produced	23
Chapter II- Status of Consumption and Production Patterns	28- 47
2. Status of Consumption and Production Patterns	29
2.1 Consumption and Production Trends	29
2.1.1 Socio- Economic trends	29
2.1.2 Household income and expenditure	30
2.1.3 Domestic Material Consumption	31
2.1.4 Industrial production	32
2.1.5 Energy consumption	33
2.1.6 Greenhouse gas emissions	36
2.1.7 Water consumption	37
2.1.8 Waste generation and disposal methods	37
2.1.9 Transport	38
2.1.10 Land use and buildings	40
2.1.11 Tourism and IRS Development	41
2.1.12 Food production and consumption	41
2.1.13 Ecological footprint	42
2.2 SWOT Analysis	43
2.2.1 Status of sustainable production	43
2.2.2 Status of sustainable consumption	44
2.2.3 Swot analysis and conclusion	44
Chapter III- Strategic Framework and Instruments of Implementation of the SCP Programme	48-58
3. Strategic Framework and Instruments of Implementation of the SCP Programme	49
3.1 Existing strategies and policies	49
3.2 Strategic framework of the SCP programme	56
3.3 Instruments of the implementation of the programme	57

Chapter IV - Projects within the SCP Programme and Action Plans	59-81
4. Projects within the SCP Programme and Action Plans	60
Chapter V- Implementing the Programme and Recommendations	82- 94
5. Implementing the Programme and Action Plan and Recommendations	83
5.1 Monitoring, Evaluation and SCP indicators	83
5.2 Role of Key Stakeholders and Devising Participatory schemes	90
5.3 Specific Role of the Media	91
5.4 Management, Coordination and Funding of the Action Plan	92
5.5 Revising the Strategy and on-going consultation	94
Chapter VI - Conclusions	95-97
6. Conclusions	96
7. Index of key documents	98

List of Figures	Page
Figure 1.1: The Four phases of the Marrakech Process	18
Figure 1.2: SCP Objective of Decoupling	22
Figure 1.3: UNEP'S SCP Programme Development Process	27
Figure 2.1: Household Consumption Expenditure	31
Figure 2.2: GDP per capita	34
Figure 2.3:Energy Consumption (ktoe)	34
Figure 2.4: Share of fossil fuels (petroleum and coal)	35
Figure 2.5: Total Annual Electricity Production	35
Figure 2.6: Energy Efficiency of the Economy	36
Figure 2.7: Solid Waste Generation and GDP per capita	38
Figure 2.8: Number of cars and GDP per capita	39
Figure 2.9: Number of vehicles per km of road	39
Figure 2.10: Private car per 1000 households	40

List of Boxes	Page
Box 1: National Environment policy Section 7.8: Strategic Objective on Sustainable Production and Consumption	55

List of Tables	Page
Table 2.1: SWOT Analysis of Consumption and Production Patterns	44
Table 4.1: SCP Programme Component Projects	62
Table 4.2: Main Elements of Action Plan on Sustainable Energy Consumption	64
Table 4.3: Main Elements of Action Plan on Sustainable Water Consumption	66
Table 4.4: Main Elements of the Action Plan on Sustainable Buildings and Construction	67

Table 4.5: Main Elements of Action Plan on Integrated Waste Management and Recycling	71
Table 4.6: Main Elements of Action Plan on Sustainable Public Service Practices	73
Table 4.7: Main Elements of Action Plan on Improving Market supply and Demand of Sustainable Products	75
Table 4.8: Main Elements of Action Plan on Education and Communication for Sustainable Lifestyles	76
Table 4.9: Implementation Schedule of SCP projects	79
Table 5.1: Recommended set of 30 SCP indicators for Mauritius	89

ABBREVIATIONS

AHRIM: Association hôteliers et restaurateurs de L’île Maurice

AREU: Agricultural Research and Extension Unit
 APEXHOM: Association Professionnelle des Producteurs/Exportateurs des Produits Horticoles de Maurice
 CDM : Clean Development Mechanism
 CEB: Central Electricity Board
 CSR: Corporate Social Responsibility
 CSO:Central Statistics Office
 CWA:Central Water Authority
 DOE: Department of Environment
 DMC:Domestic Material Consumption
 EF: Ecological footprint
 EIA: Environmental Impact Assessment
 EIP:Environment Investment Programme
 EPA:Environment Protection Act(2002)
 EPR: Extended Producer Responsibility
 ESCO: Energy Service Companies
 GDP: Gross Domestic Product
 GEF: Global Environment Facility
 GHG: Greenhouse gas
 GWh: Gigawatt hour
 ICT: Information and Communication Technology
 ICZM: Integrated Coastal Zone Management
 IRS: Integrated Resort Scheme
 ISO: International Organization for Standardization
 JEC:Joint Economic Council
 JPOI: Johannesburg Plan of Implementation
 kg: kilogramme
 km: kilometres
 Ktoe: Thousand tonne of oil equivalent
 LCM: Life Cycle Management
 LPG: Liquefied petroleum gas
 MAAS: Multi-Annual Adaptation Strategy
 MEPS: Minimum Energy Performance Standards
 MID: Maurice Ile Durable
 MOE: Ministry of Environment and National Development Unit
 MOEd:Ministry of Education and Human Resources
 MOF:Ministry of Finance and Economic Development
 MOLG:Ministry of Local Government
 MoU: Memorandum of Understanding
 Mm₃: Million cubic metres
 MPU: Ministry of Public Utilities
 MPI:Ministry of Public Infrastructure , Land Transport and Shipping
 MRC: Mauritius Research Council
 MSB:Mauritius Standards Bureau
 NCCRD: National Centre for Curriculum Research and Development
 NDS:National Development Strategy
 NDU: National Development Unit

NEAP:National Environment Action Plan
NEP:National Environment Policy
NES:National Environment Strategies
NGOs:Non Governmental Organisations
No. : Number
NPCC:National Productivity and Competitiveness Council
OECD: Organisation for Economic Co-operation and Development
PBB: Programme- Based Budgeting
QBTU: Quadrillion British Thermal Units
Rs : Mauritian Rupees
SC: Sustainable Consumption
SCP:Sustainable Consumption and Production
SEHDA: Small Enterprises and Handicraft Development Authority
SMEs:Small and Medium Enterprises
SP: Sustainable Production
Toe: Tonne of oil equivalent
TMRSU:Traffic Management and Road Safety Unit
UN: United Nations
UNDP:United Nations Development Programme
UNDESA:United Nations Department of Economics and Social Affairs
UNEP:United Nations Environment Programme
UOM:University of Mauritius
US\$: United States Dollar
VAT: Value Added Tax
WRU:Water Resources Unit
WSSD: World Summit on Sustainable Development
YFP: Year Framework of Programmes

预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_10763

