Development of Environment Statistic Under the National Statistical System (NSS) in Myanmar

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Outlines

• National Vision for Sustainable Development, Biodiversity, Green Economy and Ecosystem
• Overview on existing status
  • Institution
  • Environmental Safeguards Policy
• Mainstreaming Environment Safeguards into National and Sectoral Planning: Sustainable Development Approach
• National Vision and Policies for Statistics
• Constraints and Gaps
• Way Forward
National Vision for Sustainable Development, Biodiversity, Green Economy and Ecosystem
National Vision for Sustainable Development, Biodiversity, Green Economy and Ecosystem:

• “Environmental protection should always be the primary objective in seeking development”. (National Environment Policy Statement, 1994)

• Vision of Myanmar National Sustainable Development Strategy is “Wellbeing and Happiness for Myanmar People” (National Sustainable Development Strategy, 2012)

• Economic development, social inclusion and environmental conservation come together in a new paradigm for sustainable development: achieving broad based social and economic progress in manner that protects and restores the quality of the natural environment, improves the wellbeing of individuals today and broadens the prospects of happiness for future generations. (Myanmar National Environment Policy Strategy Framework–Final Draft)

sustainable development policy priorities within the scope of National Vision: To achieve harmony and balance between people, cultural heritage, environment and natural resources through the integration of environmental considerations into the development process to enhance the quality of life of all citizens.
Vision of Myanmar NSDS
“Wellbeing and Happiness for Myanmar People”

3 Goals

- Sustainable Management of Natural Resources
- Integrated Economic Development
- Sustainable Social Development

Environmental Issues
- Economic Issues
- Social Issues

Way Forward

Environmental Perspective (42 Indicators)
Economic Perspective (62 Indicators)
Social Perspective (24 Indicators)
Overview on existing status of Environmental Safeguard
National Environmental Conservation and Climate Change Central Committee

- WC on Law, Rules, Procedure and Standards
- WC on Industrial Planning, Urban and Rural environment and waste
- WC on Natural Resources, Biodiversity and Cultural Heritage conservation
- WC on Climate Change Mitigation and Adaptation
- WC on Human Resources Development, Environmental Education and Awareness
- WC on Green Economy Development

Regions/States/
NPT area
Environmental Conservation and Climate Change Supervision Committee

- MONRAEC
- ECD
- Lined Ministries
Related Institutions for Environmental Safeguards

- Natural Resources and Environment Committee in Parliament
  - Overview and Guidance on Environment and Natural Resources management
- National Water Resources Management
  - National Water Policy, IWRM
- MCCA
  - National Climate Change Policy
- MIC
  - Investments
- National Landuse Scrutinized Committee
  - Landuse Policy
- DNA
  - Clean Development Projects
Environmental Safeguards Policy & Strategy

- Constitution (2008)
- Environmental Policy (1994)
- Myanmar Agenda 21 (1997)
- Environmental Conservation Law (2012)
- Environmental Conservation Rules (2014)
- Myanmar Investment Law (2011)
- Myanmar Investment Rules (2013)
- Notifications for Investment (2013)
Environmental Safeguards Policy & Strategy

- NBSAP (2011)
- NAPA (2012)
- MAPDRR (2011)
- Myanmar Climate Change Alliance (MCCA)
- Myanmar INC (2012)
- EIA Procedures (2015)
- REDD+ Strategy (2016)
Environmental Conservation Law (2012)
Environmental Conservation Rules (2014)

highlights:

- To propose incentive mechanism, terms and conditions for green initiatives for sustainable development to mainstream into the development sectors
- To establish Integrated Environmental Monitoring System
- To conduct Environmental and Social Impact Assessment (EIA and SIA)
- To carry out sustainable management and utilization of Natural Resources
- To handle waste management
- To set Environmental Management Fund: PES, PPS,
Ongoing formulating and developing national policies and strategies focused environment, sustainable development, biodiversity or green economy

a) The National Environmental Policy Strategy Framework and Master Plan in collaboration with UNDP

b) Formulating the National Climate Change Strategy and Action Plan funded by EU and in cooperation with UN–Habitat and UNEP and also planned to formulate the National Climate Change Policy

c) National Green Economy Strategy and Action Plan has been developing in collaboration with WWF

d) National and City level Waste Management Strategy and Action Plan, technical assistance by IGES has also being drafted

e) The guidelines for environmental impact assessment in Oil and Gas and Hydropower Sector has also being developed

f) Discussing to establish a Environmental Management Fund and also environmental statistical system in Myanmar with technical assistance by WWF
Mainstreaming Environment Safeguards into National and Sectoral Planning: Sustainable Development Approach
Policy guidance: Environmental conservation

- To lay down new policy for economic development in parallel with environmental conservation
- To review and amend laws and enact new laws on environmental conservation
- To conserve Forests and Biodiversity
- To reduce Air and Water pollution
- To control of Industrial Waste
- To extend Renewable Energy
- To mobilize participation of people and social organizations
Mainstreaming:

Enabling conditions

- Political willingness
- Public awareness
- Mainstreaming: EIA & SIA

MIC guidelines

- To protect our Nationals’ Interests
- To protect our Nation’s Dignity
- To protect Natural Environment
- To protect National Sovereignty
Areas to promote green economy:

a) Energy sector: Energy efficient and renewable energy
b) Agriculture: Sustainable Agriculture Production
c) Livestock and Breeding: Sustainable pet industries
d) Water: Ecosystem, Quality, Pollution
e) Forest conservation: Sustainable Forest Management
f) Biodiversity: Value of Biodiversity
g) Disaster Risk Reduction: Early Warning system
h) Sustainable Cities: Green Cities
i) Oceans, Seas and Coastal Areas: Marine Pollution control
j) Mining: Sustainable Mining Industries
k) Chemical and Hazard Waste Management: Sound Chemical Management
Mainstreaming Environment into Sectoral Development Planning and project implementation

- SEA at Planning level
- EIA at Project level

- Identify Impacts
- Find mitigation measures

- Environmental Management Policy, Planning and Implementation
Overview on existing status of National Statistics
Central Statistical Organization

Vision: to build a coherent National Statistical System in Myanmar that produces comprehensive, accurate and high-quality socio-economic statistics.

Policy: to build a coherent National Statistical System in Myanmar that produces comprehensive, accurate and high-quality socio-economic statistics.

to gather data on the activities of government, cooperatives, and the private sector in order to achieve comprehensive coverage of official statistics

to facilitate a smooth and effective statistical production process that adequately serves all public and private data users

to enhance the cooperation and coordination between statistical departments and organizations

to build trust between government, the public and the international community by providing accurate and high-quality statistics

to promote wide and effective implementation of the new Myanmar Statistical Law, and to ensure implementation of the National Strategy for Development of Statistics (NSDS), in order to achieve reliable and timely compilation and dissemination of official statistics.
Main Institution

- National Committee for Data Accuracy and Quality of Statistics patronage by Vice-President and chair by Union Minister for Planning and Finance
- Clusters for National Statistical Development Strategy
  - National Account Statistics
  - Survey Coordination and Statistical Standard
  - Social and Vital Statistics
  - Agriculture and Rural Sector Statistics
  - Energy Statistics
  - Environment Statistics
  - Trade and Investment Sector Statistics
  - Macroeconomic Monitoring and Financial Statistics

Alignment between Local, Regional and Global

<table>
<thead>
<tr>
<th>National Strategy NSDS</th>
<th>Regional Strategy ASEAN Community Vision (2025) APSC, AEC, ACSS KL Declaration on ASEAN 2025 Forgoing Ahead Together ASEAN Community Statistical System ACSS code of Practices</th>
<th>Global SDGs Zero Hunger Challenge (ZHC) LDCs Graduation</th>
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Legal mandate for environment statistics

Article 26 of Environmental Conservation Rules

The Environmental Conservation Department shall carry out the following functions and duties for conservation of environment:

(a) collection and compiling of data for the conservation and enhancement of environment, doing research and carrying out training programmes;

(i) preparing and submitting state of the environment report for the whole country;

(j) publishing the state of the environment for the whole country or a regional or for a particular case to the public in accord with the guidance of the Ministry.
Experience of the Formulation of State of the Environment Report 2015

Eg. ECONOMIC DEVELOPMENT

Tourism
Drivers and Pressures (**expansion of scheduled flights, eased visa procedures, improving business environment and growing demand among regional and long-haul markets.**)

Status and issues (**Ecotourism, Accommodation, Tour services**)

Impact (**Positive impact of tourism, Likely negative impact of tourism on environment**)

Response (**Policy, Strategy, Master Plan**)

Energy

Driving forces and pressures (**Export vs. Domestic Use, Rural vs. Urban, Quick Fixes vs. Long-Term Planning, Industrial vs. Consumer Use, Cost vs. Environmental and Social Factors**)

State and trends (**Oil and Gas, coal, Hydro power, other renewable energy, Supply and demand of secondary energy, Electricity grid, Access to electricity connection, Electricity cost**)

Impact (**Economic impact, social impact**)

Response (**Major energy policies, additional policy concerns**)

Working Group on Environment Statistic

Leader – Director General, Environmental Conservation Department

Member–
Director, Forest Department
Director, Mining Department
Director, Department of Meteorology and Hydrology
Director, Public Health Department
Director, Department of Agriculture
Director, Department of Rural Development
Director, Department of Industrial Coordination
Director, Department of Electric Power Planning
Assistant Director, Department of Oil and Gas
Chief Engineer, Road Transport Administration

Director, Central Statistical Organization
Duties and Responsibilities of Working Group on Environment Statistics

(a) To identify statistics priority levels in environmental statistical data for National Statistical System (NSS) and to provide fulfillment statistical information for performing National Statistical Development Strategy (NSDS)

(b) To identify the resources which will get the statistical information and data to measure their results and impacts of the main operations in the implementation of environmental sectors such as policy, objectives and strategic plan.

(c) To systematically carry out the environmental management and to collect the environmental statistical information such as air quality and climate condition, biodiversity, energy and mining, forest, environmental management, local water resources, marine and coastal region, natural disaster and waste products for integrating the environmental conservation matters in the development process.

(d) To establish information systems and to collect and revise the identifying statistical data by connecting the relevant departments and organizations.

(e) To negotiate with the regions and states government, relevant ministries, not to dissent when collect the environmental conservation data in accordance with the international standards.
Duties and Responsibilities of Working Group on Environment Statistics . . .

(f) To issue the environmental statistics by publishing environmental statistical year book annually or using the website

(g) To coordinate with the relevant sectors for field survey to fully and accurately ensure in the collection of the environmental statistical data

(h) To cooperate with domestic and foreign business organizations in order to be more developed in environmental statistical data and information systems

(i) To continuously practice and modify the qualified staffs to be sustainable the environmental statistical data

(j) To conduct trainings and workshops to be applied technologies using from the international in the collection of the environmental statistical data, and also if there has any requirement, to fulfill the computer and technical assistance
Constraints and Gaps
Institutional Constraint

The ECD is a focal institution for national and global environmental sustainability in coordination and cooperation with relevant multi-stakeholders and organizations to mainstream environmental consideration into all of development process in relevant sectors toward sustainable economic development in accordance with the provision of Environmental Conservation Law.

Due to a wide scope and cross cutting nature of interdisciplinary subject to be environmental sustainability, efficient professional human capacity in different areas as well as strong institutional capability are crucial part of environmental mainstreaming.

As very new Department, long term comprehensive plan for human resources development and institutional strengthening is urgently needed to develop.

Environmental Data Information and Statistical System which is important to consider the future development planning and National Environmental Management Plan, is also urgently needed to develop under the NSS.
Economic Development and Environment

Challenges

- Highly rely on Natural resources
- Infrastructure Development
- Increasing Investment in industry based economy
- Heavy Industrial, Special economic zone

Resources Degradation
- Forest
- Biodiversity
- Minerals

Environmental Changes

Pollution
- Water
- Air
- Land

Climate Change

Sustainable Development?
Priority Areas of environmental issues (EPA-2009)

- Energy
- Forest Resources Degradation
- Threat to Biodiversity
- Water Resources and Quality Status
- Mining Industry on Environment
- Waste Management

Environmental Issues

Climate change
GAPs

- Environmental Safeguards Regulatory Frameworks,
- Guidelines in National and Sectoral Planning
- Capacity building and Institutional strengthening
- Implementation & Monitoring & Evaluation System
- Sustainable Financing Mechanism
- Environmental Sound Technology
- Science–based information research and Monitoring
- Valuation of Environmental Services
Way Forward for Sustainable Development
Integrated Approaches for Developing Policy and Strategic Framework

- NGOs, CBOs, People
- UN Agencies, Int. Orgs
- Academics, Researchers
- MONRAEC & Cross Ministries
- Environment and Social Safeguard System
- Sustainable Development

In the diagram, the following entities are connected:

- UN Agencies, Int. Orgs
- NGOs, CBOs, People
- Academics, Researchers
- MONRAEC & Cross Ministries
- Sustainable Development
- Environmental Policy
- Agenda 21
- NSDS
- Environmental Conservation Law
- Environmental Conservation Rule
- Sectoral policy and Laws

National Environmental Policy and Strategic Framework

- National GE Policy Strategic Framework
- National CC Policy Strategy Action Plan
- National WM Strategic Action Plan

NECC/ Institution + Multistakeholders

National Environmental Management Master Plan

Green Economy Green Growth Policy Framework & Action Plan

National Climate Change Policy Strategy Action Plan

National Waste Management Strategic Action Plan

Forest | Biodiversity | water | Environmental Quality | Land | Marine | Agriculture | Industrial, Transport | Tourism | Culture | Extractive Industries
Way Forward for Sustainable Development

• Strong Political Support
• Policy and Strategic Frameworks
• Sectoral Environmental Management Rules, Regulations & Guidelines
• National Environmental Quality Guidelines & Standards
• SIA procedures
• Sustainable Finance Mechanism
• Institution, capacity building, and the coordination mechanism
• Environmental Awareness
• Research & Development
• Regional and International Cooperation
Way Forward for Development of Environment Statistics

- Establishment of specific statistical unit (SU) within the departmental set up
- Strengthening statistical unit and coordination and cooperation with other relevant departments
  - Developing methodology and standard of data system and ICT facilities
  - Human resource development of SU
- Development environmental statistical system under the NSS in line with Regional (such as ASEAN) and also UN system
Thank you