PHILIPPINES:
ESTIMATING WATER AND ENERGY CONSUMPTION IN TOURISM

Water and energy consumption from domestic tourism in the Philippines more than tripled between 2012 and 2019. Transport services account for more than three quarters of water and energy consumption of domestic tourism. Similarly, domestic tourism represents about 76 per cent of total consumption.

**PROPORTION OF TOTAL EMPLOYMENT REPRESENTED BY TOURISM, 2019**

13.5%

**CONTRIBUTION OF TOURISM TO THE GROSS DOMESTIC PRODUCT 2019**

12.7%
**POLICY AIMS/CONTEXT OF THE PILOT**

What is the impact of tourism industries on the economic, social and environment concerns of the country particularly on the output/revenue, employment and most importantly to the environment in terms of the tourists’ energy use and water consumption and their emissions of CO₂?

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<td>✓ Economic dimension</td>
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<td>✓ Environmental dimension</td>
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**KEY DATA GENERATED**

**EVOLUTION OF WATER AND ENERGY CONSUMPTION OF INTERNAL TOURISM INDEX (2012 =100)**

**ENERGY AND WATER CONSUMPTION OF INTERNAL TOURISM, 2019 BY INDUSTRY AND INBOUND / DOMESTIC**
KEY FINDINGS

Total energy and water consumption of domestic tourism more than tripled between 2012 and 2019. Total energy consumption stood at 14,470 KTOE and 44,896 KTOE in 2012 and 2019 respectively, while total water consumption of internal tourism totaled 3,852 cu.m. in 2012 and 11,953 cu.m. in 2019 respectively.

Transport services represented about 78 per cent of water and energy consumption of domestic tourism in 2019, while accommodation and food and beverage services accounted for 18 per cent. Similarly, inbound tourism was responsible for 24 per cent of the water and energy consumption of internal tourism, while domestic tourism accounted for 76 per cent.

Employment in tourism industries in 2019 stood at 5.7 million individuals, accounting for 13.5 per cent of the total employment of the country. This share to total employment was higher than the 2018 figure of 13.0 per cent.

In 2019, the contribution of tourism to the Gross Domestic Product was 12.7 per cent, an increase from the 12.3 per cent the previous year.
**POLICY ACTION**

The Philippines efforts in measuring the sustainability of tourism (MST) is in line with the 2017-2022 Philippine Development Plan towards maintaining the country’s clean and healthy environment to support the goal of accelerated economic growth within the Plan Period. This is likewise aligned with the Philippine commitment to the 2030 Sustainable Development Agenda, the Manila Declaration on the Adoption of Measuring Sustainable Tourism, and to the International Sustainable Tourism for Development.

The key findings on MST were presented by the Philippine Statistics Authority in several meetings, fora, convention as follows:

1) Interagency Committee on Tourism Statistics with representatives coming from member agencies namely: the Department of Tourism, Bangko Sentral Ng Pilipinas, National Economic and Development Authority, Philippine Tourism Congress, Department of Interior and Local Government.

2) 14th National Convention on Statistics held in October 2019 at Crowne Plaza Hotel, Philippines.

3) Meetings of the UNWTO Committee on Tourism Statistics and Tourism Satellite Accounts which were conducted in 2018 and 2019.

4) Executive Management Committee of the National Economic and Development Authority (NEDA).

5) Training –Workshops on Tourism Satellite Accounts and MST conducted in 2018 and 2019 in Mimaropa Region (Palawan) and Cordillera Autonomous Region (Baguio) with Regional Directors and regional staff of the Philippine Statistics Authority as participants including other stakeholders of the local government

Future work will be undertaken on the improvement of existing indicators for energy and water consumption and for CO2 emissions. We will also explore ways to measure levels of solid waste from tourism activities.

**ORGANIZATION**

Year(s) the pilot study was carried out in: 4 (2017-2020)  
Lead institution(s): Philippine Statistics Authority  
Other institution(s) involved: Department of Tourism

Focal point: Assistant National Statistician Ms. Vivian R. Ilarina & Division Chief Mr. Gerald Junne Clarino