

Concept Paper

PGR-124/2017/PENT: Development of SAARC Energy Data Book (2004-2014)

Background and Introduction:

SEC has been mandated to maintain a comprehensive database dealing with different aspects of energy system in South Asia to provide a basis for facilitating and promoting regional energy cooperation. The first Meeting of the Experts Group on Oil & Gas recommended establishment of SAARC Data Bank on demand, consumption, supply chain, prices, etc., of energy.

The Centre published first *SAARC Energy Data Book (2001-2010)* in the year 2013 and subsequently published *SAARC Energy Data Book (2001-2011)*, *SAARC Energy Data Book (2002-2012)* in the year 2014 and 2015 respectively. The publications are also placed in the SEC website www.saarcenergy.org. The SAARC Energy Data Book (2003-2013) is under progress.

Building data base is a dynamic process, therefore SEC under its thematic programme area on “Energy Trade between the SAARC Countries” (PENT) proposes “Development of SAARC Energy Data Book (2004-2014)”, covering *10-Year time series data*. The book will, however, cover as many years as to include the most recent data depending upon the availability and accessibility to the data.

Objectives:

The SAARC Energy Data aims to provide timely and complete energy statistics for providing sound energy policies and designing strategic development and investment plans in energy sector in South Asia. Besides the policy makers, the Data Book shall be useful to the researchers, academicians and international energy community at large.

Key Performance Indicators:

- i. Relevance:**
It will help in exploring options and opportunities for regional energy cooperation and energy trade in overcoming prevailing energy shortages in South Asia.
- ii. Coherence:**
This activity is the continuation of SAARC Energy Data Book series being published by SEC.
- iii. Quality and Effectiveness:**
The data/ information shall be collected from the reliable sources like the member states and also from reputable international energy data sources such as International Energy Agency, United Nations Statistics Division, World Bank etc.
- iv. Sustainability:**
SAARC Energy Data Book shall be developed on annual basis.
- v. Participation:**
The member states and the energy data sources like International Energy Agency, United Nations, World Bank etc.

Methodology:

SEC will engage short-term expert from the region having extensive experience on the development of energy data base. The expert will be selected by SEC as per technical requirements for developing the data book. The data book will be reviewed by SEC professionals. Final data book will be printed and circulated to relevant organizations in South Asia, and it will be uploaded to SEC website for wider dissemination.

Contents:

The SAARC Energy Data Book will cover, but not limited to, the following aspects:

- Identify and make available energy data for SAARC countries from the SAARC Member States
- Also collect data from reputable international energy data sources such as BP Statistical Review, Energy Information Administration- *International Energy Statistics*, International Energy Agency- Statistics, United Nations Statistics Division, World Bank- *Data & Statistics* and SAARC Member States starting from 2004.
- Compile energy information into energy balance format, may follow format of the published "SAARC Energy Data Book as well as in charts showing national and regional figures of various energy aspects (e.g. primary energy supply, imports/exports, energy conversion, final energy consumption-sector wise etc.).
- Provide energy resource and reserve data of the Member States (recoverable reserve, cumulative production and balance recoverable reserve).
- Compile key indicators as well as compound indicators (e.g. population, GDP, GDP-PPP basis, per capita total primary energy supply, primary energy intensity-both GDP & GDP-PPP basis, final energy intensity-both GDP & GDP-PPP basis, per capita electricity consumption etc.) into tabular form giving national as well as regional information.
- Provide detail information of electricity particularly capacity mix, generation mix (according to fuel type), trade (reported by source & destination) and consumption (sector wise).
- Provide country-specific calorific values (in uniform units) for all available energy (e.g. coal, gas, crude oil, petroleum products, biomass etc.)
- Compile country-wise sectoral basis retail prices for all final energy (e.g. domestic, commercial, industrial, transport, agricultural).
- Include concepts and definitions of products and flows and, explanatory notes on the data.