



African Energy Commission  
(AFREC)



# AFREC's "African Energy Information System & Database" (AEIS)

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**JODI Training Workshop**  
**Doha, Qatar**  
**November 23-25, 2014**

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# AGENDA

- **Mandate**
- **Objectives**
- **Dimensions**
- **Structure**
- **Data Collection**
- **Dissemination**
- **Validation**
- **Training & Capacity Building**



# Mandate (AEIS)

## **AFREC Convention:**

- **Article (4) (Functions of AFREC), Point (b) states that AFREC shall: « Design, create and set up an energy continental data base and facilitate rapid dissemination of information and exchange of information among Member States, as well as among the Regional Economic Communities around Africa ».**

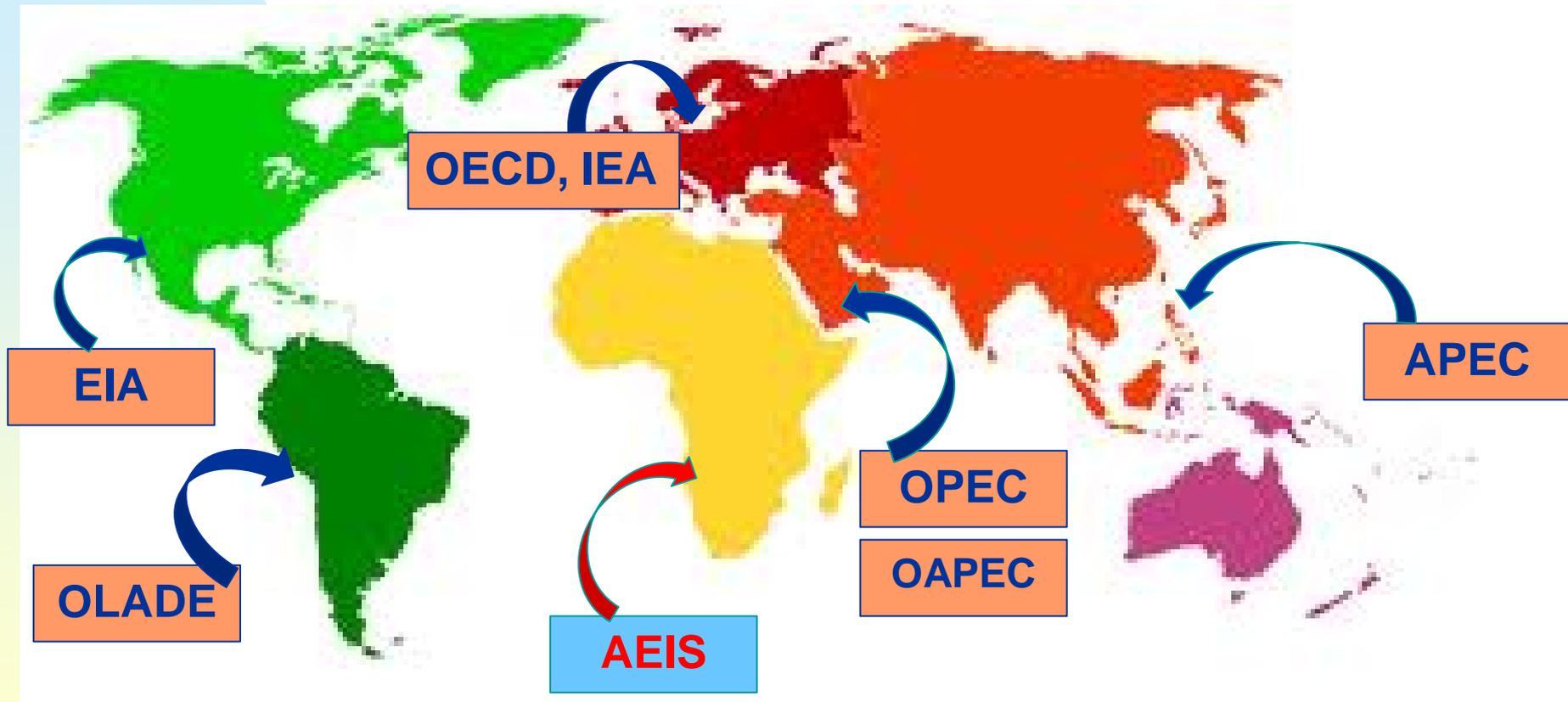


# Why an African Energy Information System and Database?

- **Reliable energy data and information is crucial for setting energy policies and designing good strategies for investment and decision making;**
- **The quality of energy databanks and information systems available in Africa is disappointing and below the level of international standards;**
- **Lack of professional database developers and providers, poor interest, shortage of expertise and absence of perception about importance of energy databases;**
- **Institutional weaknesses and lack of coordination among different parties in this area;**
- **Shortage of funding for a sustained training and capacity building and shortage of skilled people with relevant statistical and analytical qualifications to create and correlate the data at national level.**



# World Energy Information Systems and Databases



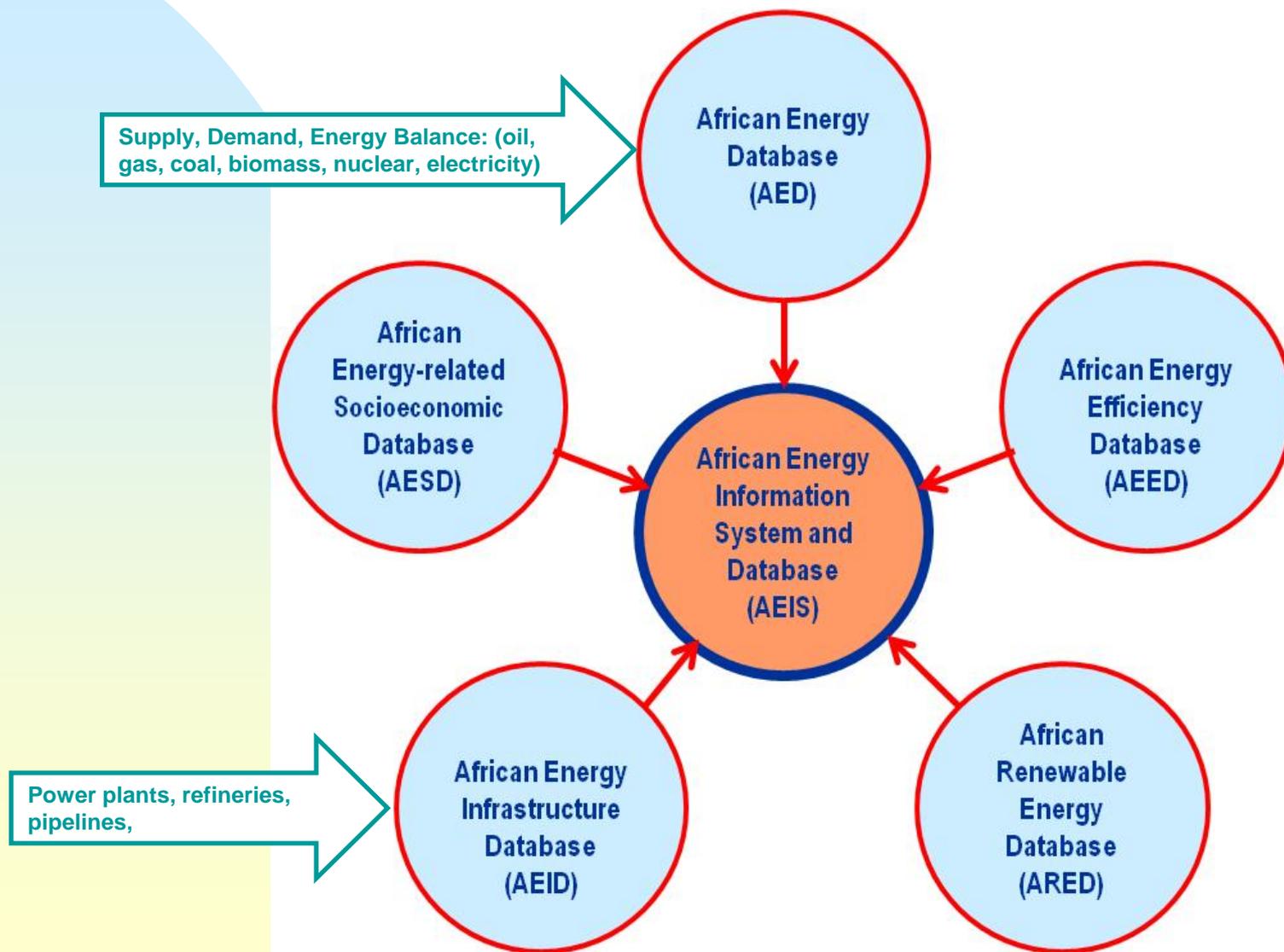
# Objectives

Elaborate, construct, operate and manage a continental energy database for all types of energy forms produced and consumed by all African countries as well as to facilitate rapid transfer and exchange of information among them and disseminate the final data to various end-users around Africa and fulfill the overall objectives of the African Union in this area.

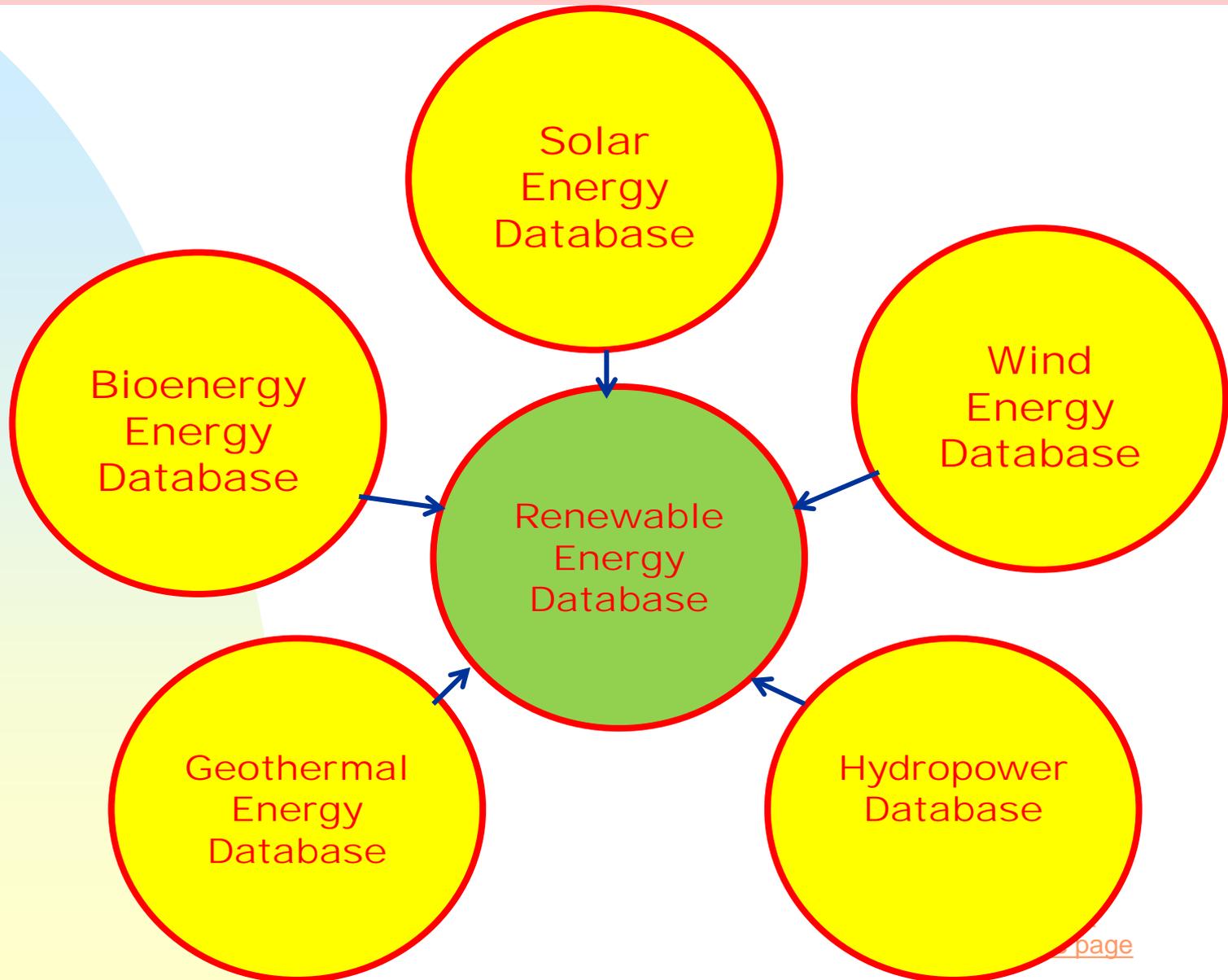
Provide reliable data and information for the implementation of PIDA and SE4ALL projects.



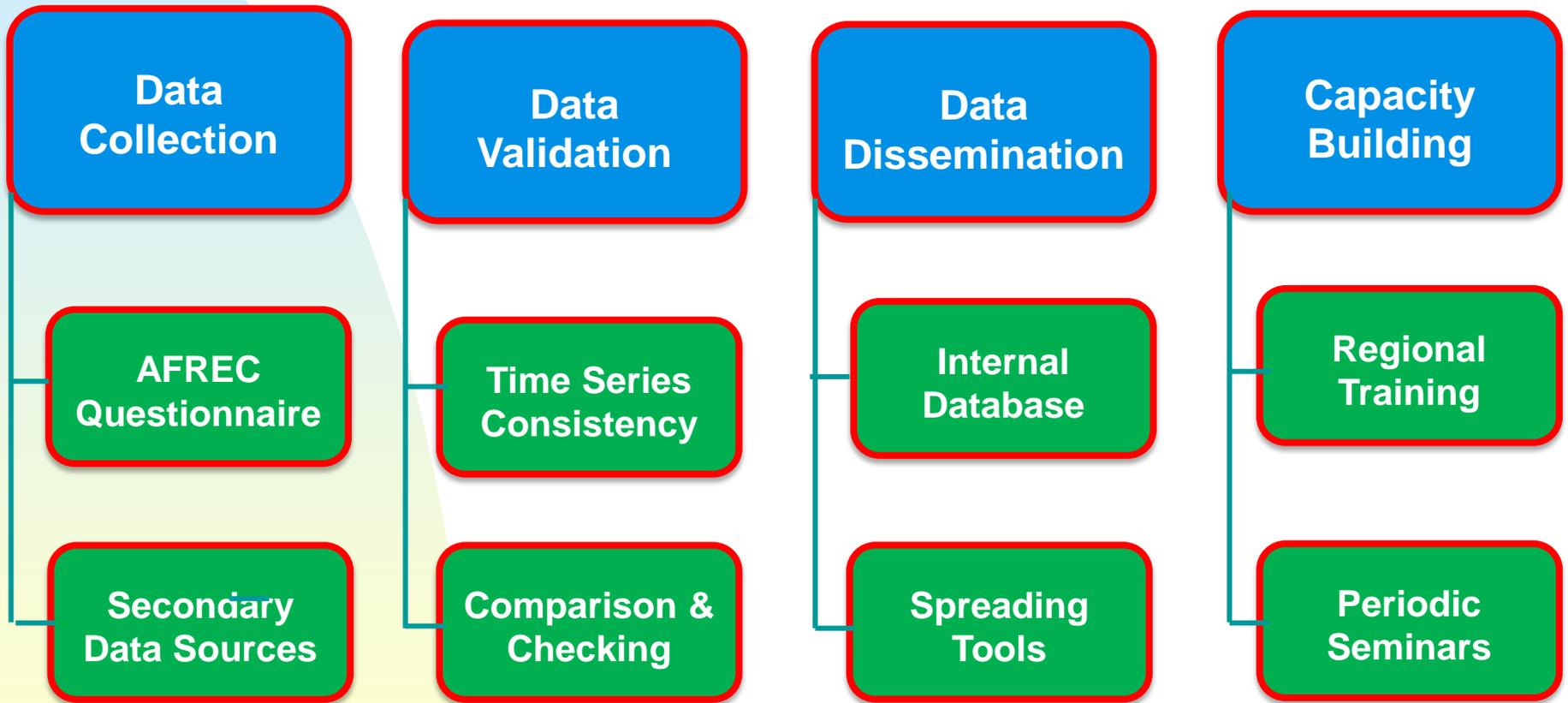
# Dimensions of the AFREC's Program for Energy Information System & Databases



# Dimensions of the AFREC's Renewable Energy Resources Statistics Databases



# Structure of the AEIS Operation



# National Focal Points in the African Countries

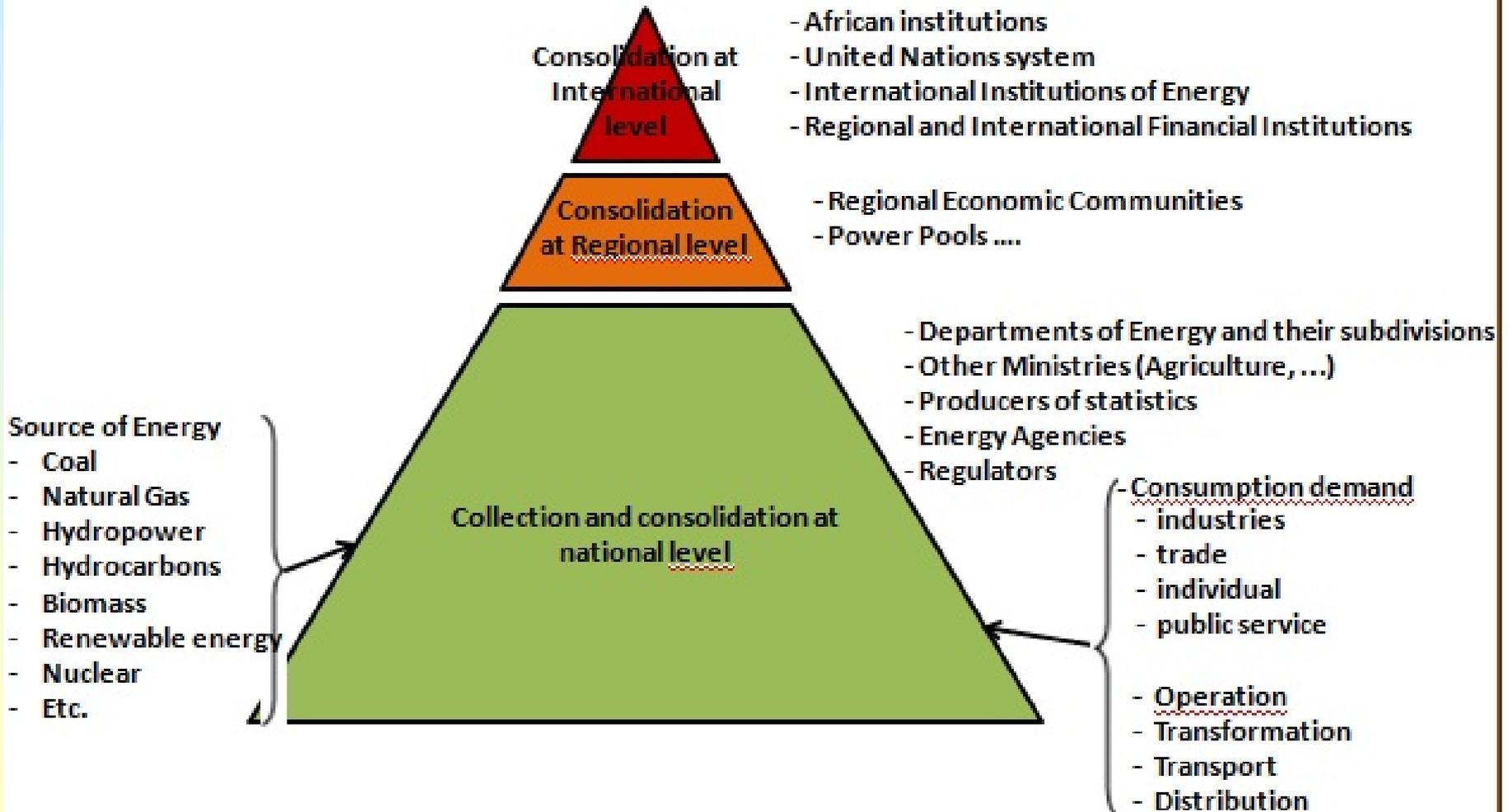


# Data Collection Questionnaire Format

## AFREC Energy Reporting Format

<b>Country:</b>	<input type="text" value="Select A Country"/>	<b>Year:</b>	<input type="text" value="Select A Year"/>
<b>Instructions</b>		<b>Oil</b>	
<b>Background Information</b>		<b>Gas</b>	
		<b>Coal</b>	
<b>Comments</b>		<b>Biomass</b>	
<b>Exit</b>		<b>Electricity</b>	
	<b>Unit Converter</b>		
	<b>Extended Balance</b>		
	<b>Balance</b>		

# Architecture of the AED



# Sources of African Energy Data & Information

## Primary Sources:

- Member States
- African Specialized Institutions

## Secondary Sources:

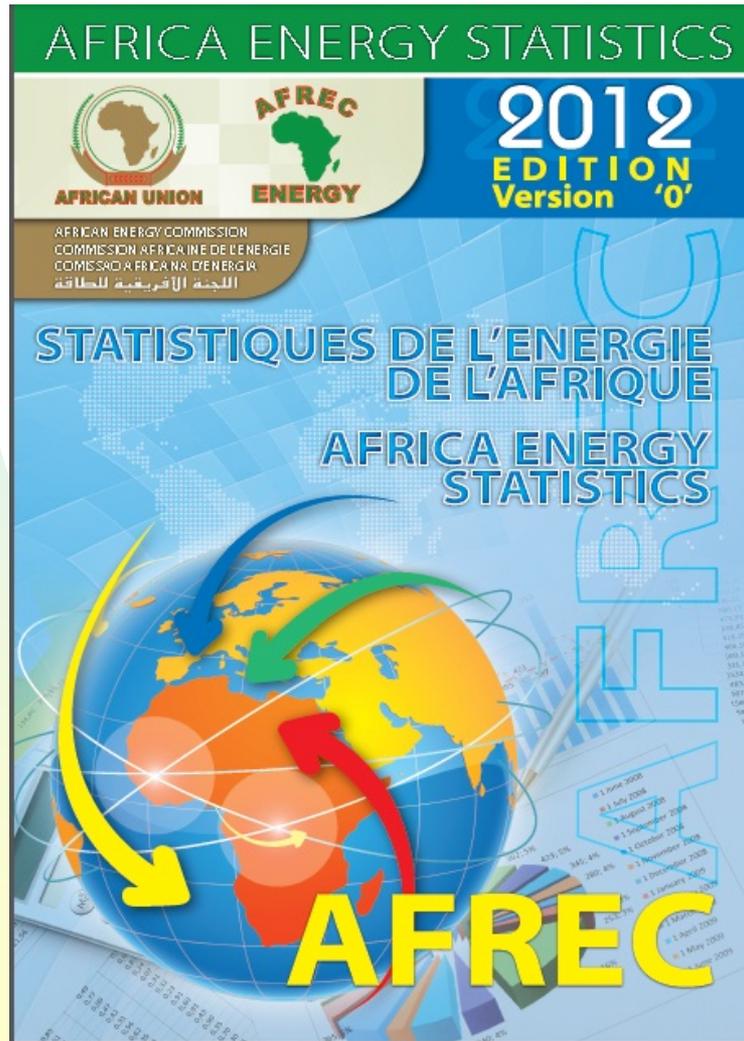
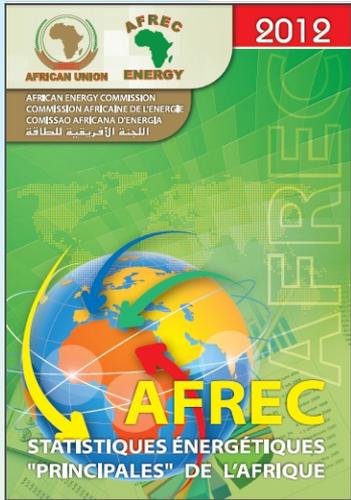
- International Energy Database Providers (IEA, EIA, WB, UN, OPEC, IAEA, etc.)

## Specialized African Renewable Energy Institutions:

1. Solar Energy: Member States
2. Wind Resources: Member States
3. Geothermal Energy: Member States (Kenya: GDC)
4. Bio-Energy & Bio-Fuels: Member States
5. Hydropower Resources: Member States



# Energy Data Dissemination Tools



[www.afrec-energy.org](http://www.afrec-energy.org)



[Accueil](#)  
[première page](#)



# Capacity Building: Regional & International Seminars



1<sup>st</sup> Seminar: Algiers, Algeria: April 2003

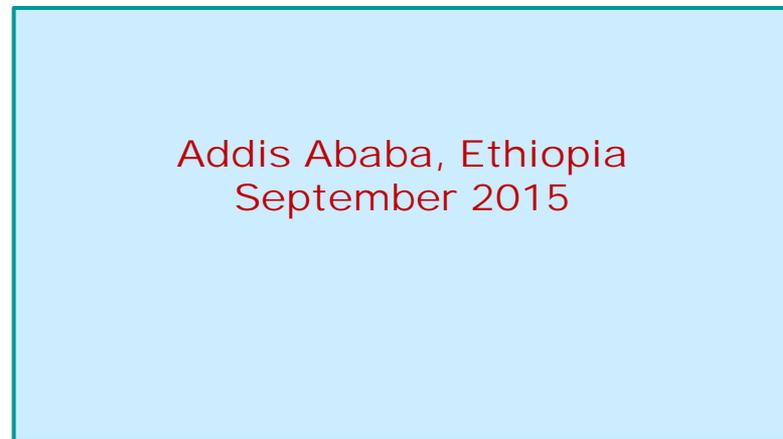


2<sup>nd</sup> Seminar: Algiers, Algeria: May 2005



Hôtel Sonesta, Le Caire, République Arabe d'Égypte  
14-16 Novembre 2011

3<sup>rd</sup> Seminar: Cairo, Egypt October 2011



4<sup>th</sup> Seminar: Addis Ababa September 2015

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# Regional Training Workshops

2012: (1) Douala, Cameroon April 2012, (2) Johannesburg, South Africa May 2012; (3) Dakar, Senegal September 2012, (4) Addis Ababa, Ethiopia September 2012  
2013: (1) Brazzaville, September 2013; (2) Accra, Ghana, November 2013; (3) Johannesburg, SA, October 2013; (4) Addis Ababa, Ethiopia, December 2013



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# Training Stats

- **Total Trainees in 2012: 83**
- **Total Trainers of Trainers in 2012: 29**
- **Total Trainees in 2013: 72**
- **Total Trainers of Trainers in 2013: 38**
- **Total Trainees in 2014: 46**
- **In-house Training: 3**



# Outcome

## **Annual release of updated edition of the African Energy Database in different formats:**

- **Main report which contains tables of national energy balances for national, regional and continental levels,, glossary and unit conversion charts.**
- **Simplified pocket-size pamphlets as quick references**
- **Socioeconomic and environmental indicators.**
- **Data analysis.**
- **Energy products supply and demand projections.**
- **Glossary and definitions.**
- **Unit conversion tables.**



# Conclusions

- **Once the African Energy Information System and Database (AEIS) is established and went into operation, it has to stay operational and updated indefinitely!!**
- **A comprehensive Energy Information System and Database for Africa requires a collective effort of a networking partnership among various African Member States, RECs, RPPs, specialized institutions and international organization.**
- **Appointment of competent National Focal Points and provision of adequate funding are essential for the management and development of the database system.**



# Thank you for your kind attention



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