EXERCISE - WHAT CAN WE LEARN FROM AN ENERGY BALANCE?

The energy balance offers a complete view of the energy situation of a country in a compact format.

A number of key questions can be addressed by looking at an energy balance. All are essential to have an overall understanding of the energy picture in a country - a starting point for any sound policy making.

As the information from all the commodity balances is presented together in a common unit, the Total product can be defined as the sum of all products. Total figures are used to calculate the total energy demand of a country, the contribution of each source in each sector of the economy, or of each sector in the total, etc.

## TOTAL ENERGY

1. What is the total energy supply of this country (TES) in 2015?
2. How big was the demand in this country (measure by TES) in 2015 compared to:
   - World total? (551 688 000 TJ in 2015)
   - China? (119 926 000 TJ in 2015)
3. Can this country's production cover its energy demand (measure by TES)? Is it energy self-sufficient?
4. Which sector has the largest share in the total final energy consumption?
5. How much is the difference between the total energy supply (TES) and the total final consumption? Where is this energy used/lost?

## BY PRODUCT

6. What is the fuel most used in this country (measure by TES)?
   What is the share of this fuel in the energy mix (measure by TES)?
7. What is the share of renewables in the energy mix (measure by TES)?
8. Is this country self-sufficient for all fossil fuels?
9. What is happening with the crude oil used in this country?
10. Which sectors are the heaviest consumers of natural gas?