**Module 6 compulsory exercise 3**

1. **What are the dominant fossil fuels used in your country?**

The dominated fossil fuels in Saudi Arabia is Oil**.**

1. Where are the dominant fossil fuels mainly used for in your country**?**

* Industry
* Transport
* Other
* Non-energy**.**

1. It is your task to create a new policy in order to improve the environmental friendly and sustainable sources and consumption of energy of your country. How would you do that? Think of how you can improve the sources and the consumption of energy.

I recommend that we need to improve and encourage new polices to find a good energy system in terms of supply and demand sides.

* 1. Saudi Arabia uses open cycle gas turbines (OCGT)and steam turbine (ST). The recommendation is to convert the OCGT and ST – based plant **to** combined cycle gas turbines CCGT. It is good policy to achieve the efficiency in Saudi Arabia.
  2. Building more OCCT power plants to find out a good efficiencies level and reduction in energy consumption.
  3. Reduce the overall of efficiency standard for co-generation desalination plants is helping the government to get a better potential of heat, cooling and electricity generation.
  4. Using renewal energy program will lead to solar thermal applications
  5. Apply new policy to reduce energy consumption as demand side by implement legislation for energy conservation which will help in facilitating energy savings.
  6. Apply new policy by crate new building regulation, this will be implemented by Saudi building code to cover building construction, materials and so on.

**New Policy**

**Building regulation Demand**

**Energy legislation Demand**

**Renewal Energy Demand**

**CCGT**

**Deploy CCGT Demand**

**Efficiency Standard Demand**

Energy Demand

Energy Supply