**Text 1 – Exercise introduction**

This exercise guides you through the creation of an extremely simple and essential energy model. It consists in one simplified electricity supply chain, with one electricity demand (growing between 2019 and 2023), coal power plants capacity to meet that demand, and coal extraction to feed the coal power plants. The chain is represented in the figure.

This exercise is developed to show you how a model in OSeMOSYS looks like, how it is created step-by-step, and what are the essential technology parameters taken into account in the model. There are many more parameters, but we will not look at them here.

**Text 2 – List of parameters**

The structure of the model, i.e. the ‘sets’ of technologies and fuels to be considered, and the years and time slices of the analysis, have already been inserted for you.

Here, you will insert numerical values for the following parameters:

* Availability factor
* Capacity factor
* Capacity to Activity ratio
* Capital cost
* Fixed O&M cost
* Input to activity ratio
* Output to activity ratio
* Operational life
* Specified annual demand
* Specified demand profile
* Variable O&M cost