

# 2.5 Value Chain

## Power generation

Electricity production through the construction, operation and maintenance of generating plants, and purchase/sale of energy on wholesale markets.

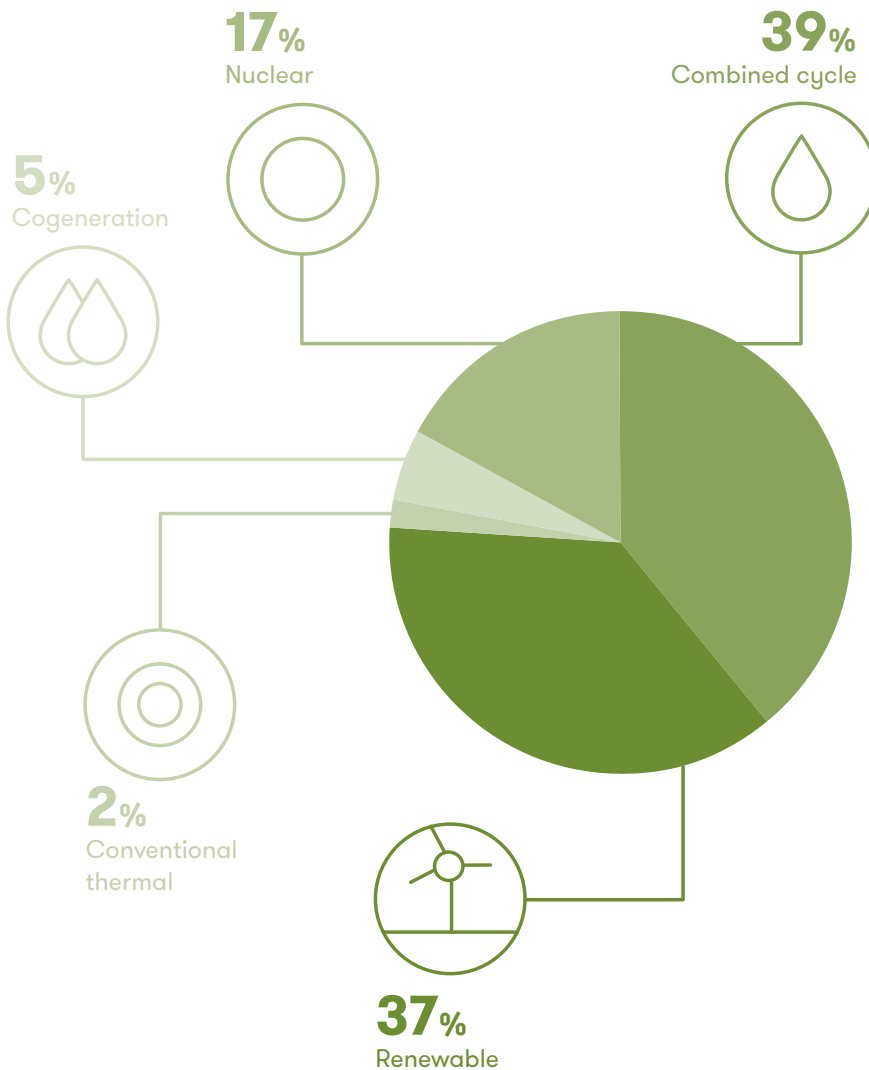


## Power transmission and distribution

Construction, operation and maintenance of electrical lines, substations, transformer centres and other infrastructure, to transfer electrical power from production centres to the end user.

### Generating plants\*

\* % of 2017 net output



### Electric grids\*

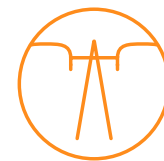
\* At 31 December 2017

#### Overhead lines



**4,000**

High and medium voltage transformer substations



**48,088 km**  
of transmission lines



**911,474 km**  
of distribution lines



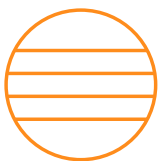
### Retail sale of energy

Supply to end users of energy and additional products and services.

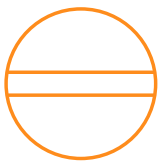
Underground lines



**1.5 million**  
Medium to low voltage distribution transformers



**1,999 km**  
of transmission lines



**195,050 km**  
of distribution lines

### Users\*

\* % by sector at 31 December 2017

