

about 40% each and wind production is expanding rapidly mostly in the north. There is also an important production of Combined Heat and Power in the district heating system. The Swedish nuclear fleet currently consists of 8 reactors, two of which are to be closed by 2020. The debate is currently about the security of supply when the reactors are shut down. Even though electricity is abundant, during June 2020 very high electricity prices were experienced in the southern parts of Sweden leading to the restart of one of the reactors that is due to be shut down permanently. Delays in the expansion of transmission capacity from large scale hydro and wind power in the north to the south made this necessary. Delayed grid expansion might affect the growth of wind power and energy security negatively in the immediate future.

The Swedish goal of a 100%-renewable electricity system by 2040 will also require long term solutions to possibly replace the remaining 6 nuclear reactors, which reach a lifetime of 60 years in the early 2040s to maintain the excellent score on energy security. Electricity demand is expected to increase significantly in the future due to the replacement of fossil fuels in the transport and industrial sectors.

