

1990

2010

2030

2050

### 1 – Basic technologies

development of RE  
first expansion of RE  
development of efficiency technologies



### 2 – Systemic integration

flexibilisation, digitisation  
direct power usage, storage system  
evolution of a new energy market



### 3 – Synthetic combustibles/fuels

high negative residual loads  
large-scale electrolyses  
synthetic fuels for transport & industry

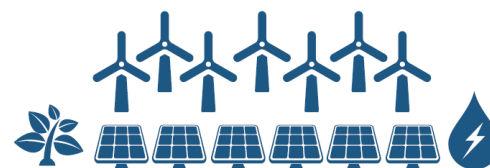
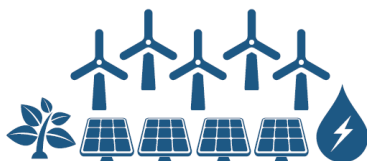


### 4 – Final defossilisation

abolition of fossil energy sources  
RE imports  
conclusion of energy supply transformation



# 4 phases of the energy transition



Continuous technological development and increasing energy efficiency

Increasing coupling of the energy sectors

Integrated energy system