

## Safe, stable and sustainable. Europe's energy supply in 2040.

How to keep our houses warm and our lights on in an efficient energy system powered by 100% renewables. CAN Europe energy transition vision for reaching climate neutrality by 2040, based on a Paris Agreement Compatible scenario.

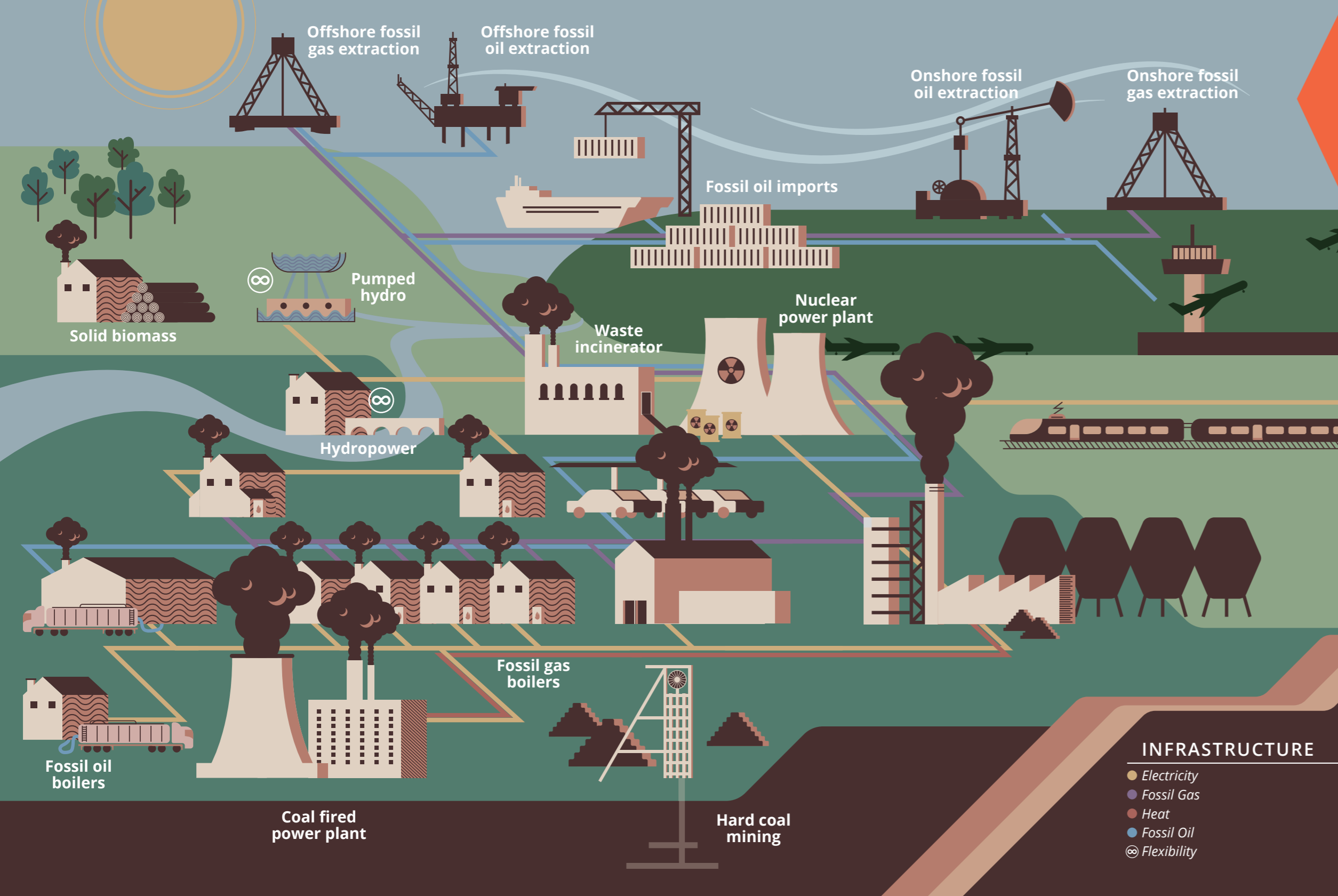
Energy consumption in BUILDINGS, INDUSTRY and in TRANSPORT sectors reduces strongly. The sectors interact closely through well-connected networks for electricity, heat, non-fossil gas. Renewables are mobilised respecting sustainability criteria. Solar and wind energy are the main electricity sources. A multitude of flexibility options keep our economic activity effective.

### ENERGY TRANSITION IN THE SECTORS

- 1 BUILDINGS. Deep renovation and renewables only.**
  - at least 3% annual deep renovation rate
  - replace fossil fuel boilers with heat pumps or renewable district heat
- 2 INDUSTRY. Circular economy.**
  - redesign and electrify production processes
  - reduce raw material demand
- 3 TRANSPORT. Electrify & shift.**
  - modal shift towards public transport, rail & bike
  - electrify road transport by 2040
  - renewable hydrogen for aviation and shipping

### INFRASTRUCTURE

- Electricity
- Biomethane
- Heat
- Renewable hydrogen
- Flexibility
- Sustainability
- Demand response



# What we leave behind us. A polluting past of fossil and nuclear.

## THE TARGETS WE NEED

**≥65% BY 2030** To reach the 1.5°C objective, we need to reduce our emissions by at least 65%.

**≥50% BY 2030** Cover at least half of our demand by domestic renewables.

**-45% BY 2030** Building on a strong reduction of energy demand in all sectors.

**0 NET EMISSIONS BY 2040** A clean and safe Europe for all.

### ENSURING A JUST TRANSFORMATION

This energy transition is feasible, needed and inevitable for all European regions. Keep using fossil fuels has devastating effects on our health, the environment, and the climate. Many European communities envisage a false choice between jobs and health. Both will be achieved with a just and direct transition to renewable energy with no other bridging fuels.

### ALIGNING THE FINANCES

Never before has there been so much money available through different EU funds to allow us to profoundly transform our energy system and reach a climate-neutral economy. These funds have to go to the right measures. All financial instruments and institutions have to be climate-proofed. Fossil fuel subsidies have to end immediately, fostering investment in renewable systems.

