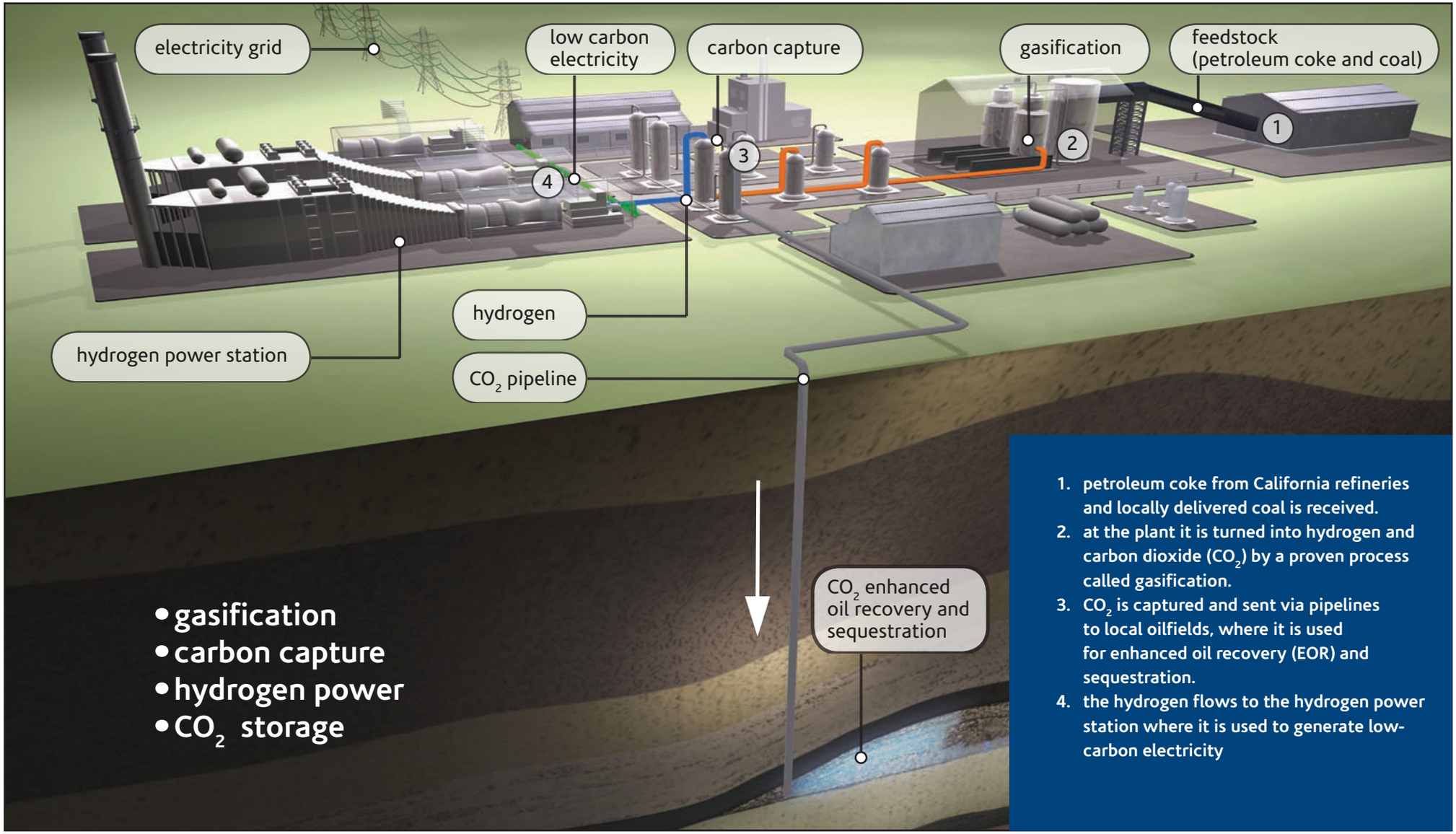
generating hydrogen power with 90% carbon capture – how it works

hydrogen energy



1. petroleum coke from California refineries and locally delivered coal is received.
2. at the plant it is turned into hydrogen and carbon dioxide (CO_2) by a proven process called gasification.
3. CO_2 is captured and sent via pipelines to local oilfields, where it is used for enhanced oil recovery (EOR) and sequestration.
4. the hydrogen flows to the hydrogen power station where it is used to generate low-carbon electricity

simplified model IGCC with CCS for explanation purposes only