

SCT-CPO Pilot Plant – San Filippo del Mela

The SCT-CPO pilot plant **produces synthesis gas and/or hydrogen** by the Short Contact Time - Catalytic Partial Oxidation technology.

The plant was designed to test a wide range of **operating conditions** (pressures up to 30 kg/cm²g; raised from 50 to 100 Nm³/h of natural gas) and uses gaseous hydrocarbons (natural gas and LPG), air or oxygen and steam.

The process includes four main **sections**:

- feed, compression and process of feedstock
- production of synthesis gas by SCT-CPO technology
- hydrogen enrichment (WGS)
- hydrogen separation and purification (PSA).

The plant was built to operate even excluding one of the sections (WGS and PSA or both).



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