

Decarbonization of industry

Methodology and solutions for reducing the carbon footprint of industrial activities



ARTELIA IS IMPLEMENTING CSR POLICY BASED ON 4 PILLARS :

- Ensure responsible governance
- Protect the environment
- Develop our human capital
- Commit to civic and humanitarian causes

We have our efforts assessed by an independent organisation specialising in this area (EcoVadis) and stepping up our action against climate change, we have also signed up to the Sciences Base Targets initiative (SBTi).



SBTI



With our holistic approach, we provide comprehensive services to support you in significantly reducing the environmental footprint of your operations.

OUR LEVERS FOR ACHIEVING DECARBONIZATION



CARBON PERFORMANCE INDUSTRIAL PROCESSES

Process evolution & improvement
Support for change of raw materials
Recovery of direct emission (flares, events, etc.)
Emissions monitoring



ENERGY EFFICIENCY

Process energy efficiency
Building renovation
Heat and gas recovery
Logistics management (RVE, H2, etc.)



ENERGY SUPPLY

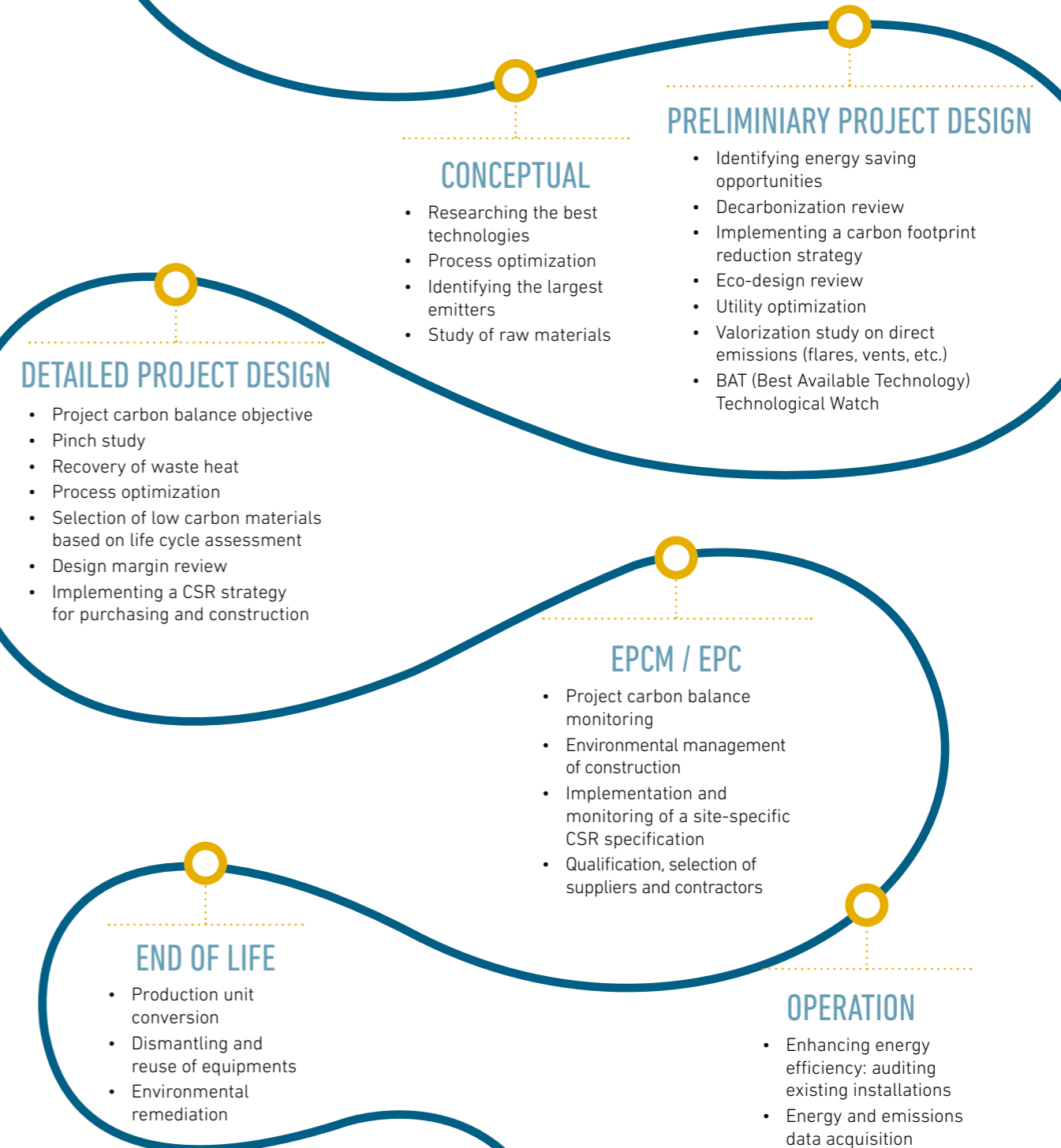
Develop a solution to supply for carbon-free electricity
Self-consumption and storage
Connection to heat and cold networks
Biomass and green gas



CARBON CAPTURE UTILIZATION AND STORAGE

CO2 capture and purification
Transportation
Geological storage
Reuse (e.g. petrochemistry CxHyOz)

OUR EXPERTISE IN GREENFIELD AND BROWNFIELD PROJECTS



Some references

AIR LIQUIDE

Detailed engineering for projects involving the production of liquefied oxygen and hydrogen at 400 and 700 tons per day.

FRIEDLANDER ANGOLA TOTALENERGIES ANGOLA

Modification of an FPSO to operate in «closed flare» mode and upgrading of the gas produced.

CABOT

Feasibility and authorization studies for the development of a cogeneration unit dedicated to internal energy and steam supply for one its platforms based in Normandy (France).

AXENS

Basic & Detailed Engineering for the deployment of a pilot project dedicated to CO2 capture from industrial sources.

ALSTOM

Feasibility study for a photovoltaic power plant for its site based Barcelona (Spain).

TOTALENERGIES LEUNA

Recovery of waste heat from various refinery units to supply the district heating network of the city of Leipzig (Germany).

TOTALENERGIES

Basic & EPC to convert the existing Grandpuits refinery (nearby Paris airport) to a zero fossil hydrocarbon platform: integration of a new unit to recycle waste plastic by pyrolysis to produce Tacoil, a feedstock for steam cracker, and revamping of utilities and logistics facilities for SAF* production units.

*SAF = Sustainable Aviation Fuel

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Turnkey solutions



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