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ENERPROJECT ⁺
GAS COMPRESSION SOLUTIONS

COMPRESS, NOW.

FLARE GAS
SOLUTIONS

APG ASSOCIATED PETROLEUM GAS APPLICATION

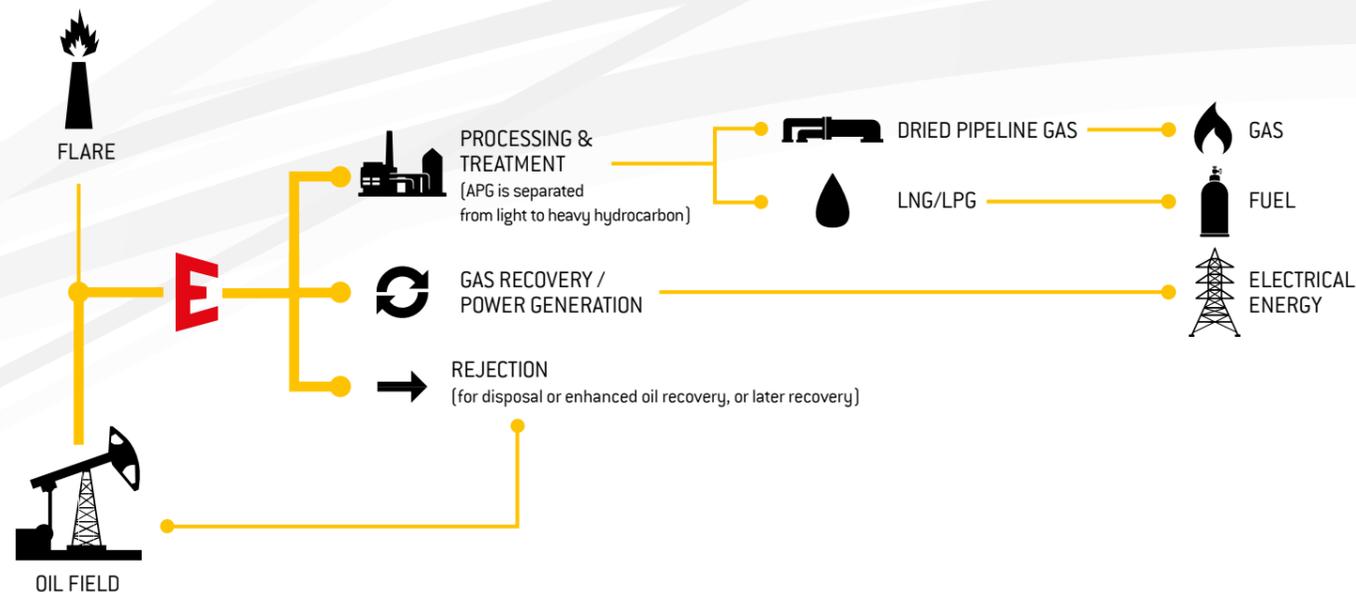
Associated Petroleum Gas (APG) is a form of natural gas, also known as "flare gas" or "field gas", that comes from oil wells. It is typically called "Associated Gas".

This gas can exist separate from oil in the formation (free gas) or it can be dissolved in crude oil. Regardless of its source, once separated from crude oil it commonly exists in mixtures with other hydrocarbons such as ethane, propane, butane, and pentanes. In addition, raw natural gas contains water vapour, hydrogen sulphide (H₂S) and carbon dioxide (CO₂), nitrogen (N₂), and other compounds.

Following the launch of the GGFR (Global Gas Flaring Reduction) partnership during the World Summit on Sustainable Development (August 2002), gas compressors have become key machines in the gas recovery system application, with the specific function of reducing the emission of CO₂ during flaring.

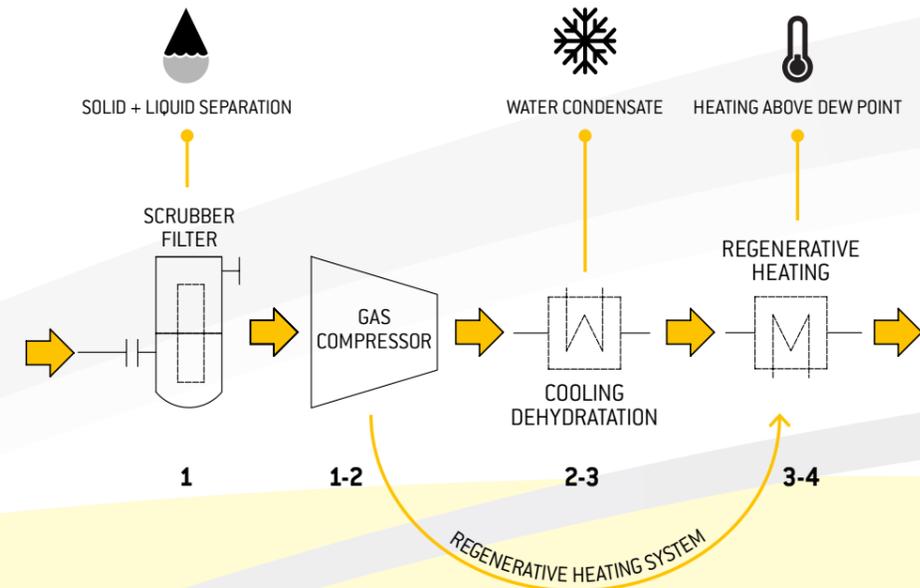
- WE**
- We are ISO9001 certified.
 - We provide logistics, commissioning, training and maintenance.
 - We guarantee spare parts availability for the lifetime of our packages.
 - We offer tailor-made solutions.
 - We implement ways to reduce the environmental impact of our products.
 - We are committed to health and safety.
 - We believe in our competence and invest in our people with ongoing education and training.
 - We constantly invest in research and development.

APPLICATION



CONCEPT

The goal of the Enerproject Gas-Compressors skid is to be able to manage APG raw gas with integrated filtration and dehydration systems.



THERMODYNAMICS

- 1 FILTRATION**
At inlet side, a suction filtration system works at two stages: first, it cleans the gas from impurities; second, it brings out liquid and all particles of condensate.
- 1-2 COMPRESSION**
During compression gas temperature increases, avoiding the persistence of gas condensate inside the screw.
- 2-3 COOLING**
During cooling vapour condensates, reaching the dew point temperature required by GT constructor. A condensate collector evacuates all condensate through an automatic drainage system.
- 3-4 HEATING**
A Regenerative Heating System is provided in order to supply gas at the required safety gap (3-4) from dew-point temperature.

