

Sector scope of Careers in Energy's labour market modelling system

Established Energy Sectors

Conventional exploration & production (E&P)

Exploration and production of onshore and offshore conventional crude oil and natural gas.

Oil sands

Operation and maintenance of three facility types (mining, in situ and upgrading).

Pipelines

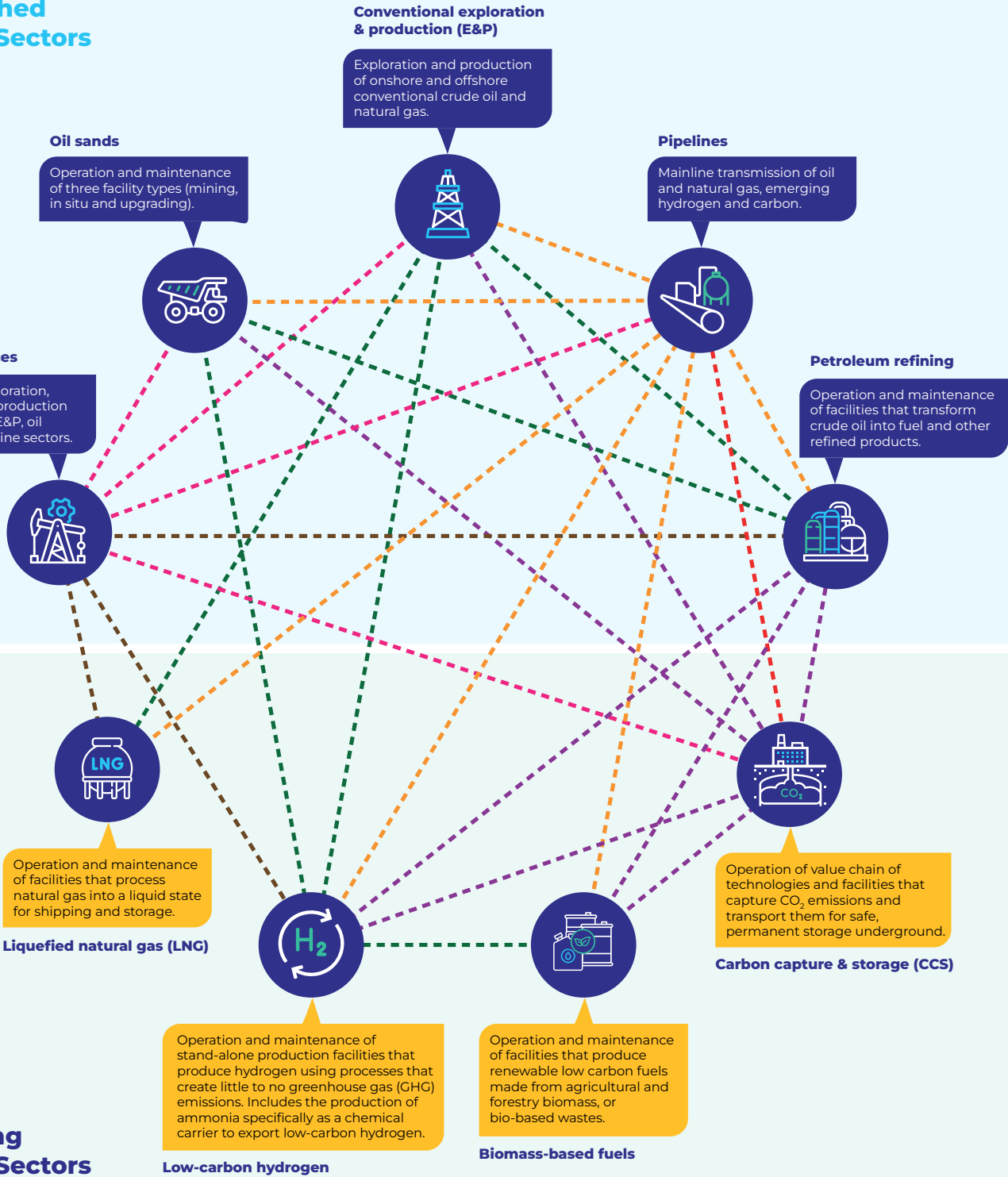
Mainline transmission of oil and natural gas, emerging hydrogen and carbon.

Energy services

Contracted exploration, extraction and production services to the E&P, oil sands and pipeline sectors.

Petroleum refining

Operation and maintenance of facilities that transform crude oil into fuel and other refined products.



Emerging Energy Sectors

Operation and maintenance of facilities that process natural gas into a liquid state for shipping and storage.

Liquefied natural gas (LNG)

Operation and maintenance of stand-alone production facilities that produce hydrogen using processes that create little to no greenhouse gas (GHG) emissions. Includes the production of ammonia specifically as a chemical carrier to export low-carbon hydrogen.

Low-carbon hydrogen

Operation and maintenance of facilities that produce renewable low carbon fuels made from agricultural and forestry biomass, or bio-based wastes.

Biomass-based fuels

Operation of value chain of technologies and facilities that capture CO₂ emissions and transport them for safe, permanent storage underground.

Carbon capture & storage (CCS)

Legend

Transport product: required to transport product to customer



Transport CO₂: specific to CCS



Feedstock: produces raw materials required for energy source production



Feedstock production: key role in producing feedstock



Emissions reduction: energy source or technology that support reducing emissions



Contracted service: equipment, technology and workforce required for production process

