

## **VOC diffuse emission quantification**

Diffuse emissions are those emissions deriving from a direct contact of volatile organic compounds or fine dust with environment during normal operative functioning conditions.

The sources of diffuse emissions can have spot, linear, surface or volume origin. The quantity of VOC is evaluated considering all the significant emission sources such as:

1. Tank loss: the estimation of the losses is obtained using the software "Tank". The determination of the emitted quantities depends on:
  - a. type of tank
  - b. atmospheric conditions of the area where the tank is placed;
  - c. content of the tank, i.e. kind of stored fluid;
  - d. stored quantities
2. Emissions from loading and unloading of crudes and oil products;
3. Emissions from wastewater treatment systems and from water cooling towers;
4. Emissions from boilers' stacks, blowdown systems, thermal cooking systems, FCC and torches.