

New intelligent model of oil storage and transportation based on the “ Sharing Economy”

Oil storage and transportation, important in the petroleum production link, is the core path connecting the refinery and the terminal customers. Its level of intellectualization decides the speed and quality of production link operation. Over past 40 years' development, the domestic oil storage and transportation industry has become an enormous storage net, including transporting pipes for refined oil products , water transportation, railway transportation, overland transportation as well as nearly 10 thousand transfer/distribution oil depots. It is acting like the blood capillary of domestic economy, providing energy support for the whole national economic operation.

Since the domestic oil storage and transportation industry is still in a relatively low level, it mainly shows as the majority of asset operator in the oil storage and transportation industry are generally small and they mainly serve for the clients within small radius(within 100km), which is hard to form a decreasing effect of operating costs under an economic scale. Secondly, most of the private storage and transportation property operators, with low standard of information and low capability of digital data acquisition, operate manually and has difficulties with trans-subject flow of digital information, which causes severe phenomenon of “information isolated island”. Besides, most of these operators rely on the minority medium and large client seriously, or seek for profit in gray zones (oil abnormal spoilage), and in some places, bad morals conquer good morals, falsification has become cancer of the industry.

Responding to the “sharing” idea, the domestic oil storage and transportation industry will develop towards a intelligent, integrated and large-scale system in the future.

Please combine the process and current situation of the oil storage and transportation domestic and overseas, forecast the new intelligent storage and transportation models based on the “sharing economy”, state the operation principles, models and reconstruction method and predict the possible revolution of the industry.