China Pingmei Shenma Group is a large enterprise based on energy and chemical, with an annual output of 70 million tons of coal, 16 million tons of coke, 680,000 tons of caustic soda, 450,000 tons of PVC resin, 50,000 tons of KOH, 25,000 tons of chloroacetic acid, 20,000 tons of saccharin, 10,000 tons of thionyl chloride, etc.

At present, there are some key problems in salt chemical industry: (1) the advantage of coal resources have not been fully integrated with salt chemical industry; (2) the salt chemical industry of the chlorine product structure is not perfect, and the ability to resist the market risk is not strong; (3) some byproducts are not fully used, and the environmental pressure is increasing.

For this, we are working to make the salt chemical industry fully integrated with other industries in our group.

(1) combined with the coal chemical industry Coal chemical industry is the pillar industry of the group, its main products include coke, benzene, hydrogen, methanol, industrial naphthalene, etc., and can provide a lot of basic raw materials. Combined with the development of coal chemical and salt chemical downstream products are rich. New coal chemical products such as ethylene, propylene and propylene oxide with the development of salt chemical industry, could produce epichlorohydrin, ethylene oxychlorination process PVC and other bulk chemical products and some fine chemical products.

(2) Combined with the nylon chemical industry The group’s industrial yarn and cord fabric scale is largest in the world, and the scale of nylon 6,6 salt and engineering plastic ranks first in Asia. Hydrogen which is sufficient source in salt chemical enterprise is an important raw material for the production of nylon 6,6 salt, so hydrogen is as a link to the two industries. Benzene and methanol are also important raw material for the production of nylon product, therefore, we are working to build circular economy industrial chain with coal chemical, salt chemical and nylon chemical industry.

combined with fine chemical industry With the combination of fine chemical industry is mainly reflected in the comprehensive utilization of chlorine, one of the more successful model is the combination of chlor-alkali, TDI (toluene-2,4-diisocyanate) / MDI (4,4”-diphenylmethane diisocyanate) and PVC, chlorine is preferentially used in TDI/MDI production, resulting HCl and then used in PVC; the second is a combination of chlor-alkali, TDI/MDI and cheap glycerin to epoxy chlorine propane, chlorine is also preferentially used in TDI/MDI production, resulting HCl and then with glycerol to synthesize glycerol epichlorohydrin. So to achieve the secondary use of chlorine, and is consistent with the concept of circular economy. Hence, we should continually change ideas, focus on more advanced and practical considerations of chlorine processing program, to develop high-grade fine organic chlorine products.

Therefore, we will continue to promote the optimization and upgrading of salt chemical industry, product diversification, meticulous development, in order to improve the capacity of sustainable development in our group.