The news revealed on “The Chemical Daily” described about the waste plastic catalytic cracking oil production from RECYCLE ENERGY CO., LTD.

Here is the translation for the news.

Feb. 28th, 2011

Continuously-Operated Plant Converting Waste Plastics into Oil Now on Sale
Sales Appeal is Yield of Light Oil at 90%
RECYCLE ENERGY CO., LTD. (located in Fukuyama City, Hiroshima), as a venture corporation of environmental management, begins to sell the continuously-operated plant converting waste plastics into oil, featuring on the high yield of light oil. At the early stage the company targets at selling 20 sets home and abroad. The most outstanding characteristic is the high yield of light oil estimated at 70-90% (naphtha, kerosene and diesel). The oils derive from 3 types of resins such as polylefin by catalytic cracking method. Initial sales performance was made domestically last year. Other appealing points include almost no wax as by-product and low production cost. The company aims to sell the plant to plastic-molding manufacturers, industrial waste disposal dealers and municipality.

On to the Realization of Selling 20 Plants
The feedstock includes PE/PP/PS, and PET/PVC up to 10%. The used package and agricultural film are assumed to be the suitable origin. The yield is over 80% on weight basis, which includes 40-60% of naphtha, 30-50% of kerosene & diesel, and 10% of heavy oil. While the yield of heavy oil is around 70% if using the pyrolysis method with no catalyst applied, the ratio of light oil is extremely high and there is no wax produced. The company plans to sell the plant with the processing ability at 200kg/h domestically and to sell a larger one with the processing ability at 400kg/h abroad. The size of the plant with the processing ability at 400kg/h is 10 meters respectively in length, width, and height. 3-4 days non-stop operation is possible, and it allows 10 tons at most to be processed per day.

The catalyst is a kind of recycled mineral one and it comes in a powdery state. Compared with the small batch system which processes 1 ton at one time, the operation cost reduces to 1/2 to 1/3. So far the business enquiries have come from electronic manufacturers, pharmaceutical makers and consulting companies related to environment management.