RES Polyflow’s patented energy recovery technology thermally deconstructs hydrocarbon based materials such as end of life plastic and rubber and converts it into new molecular structures that can be marketed as transportation fuels as well as feedstock for new polymer production. The process works in a low temperature environment at atmospheric pressure and does not require a catalyst. A continuous feed material conveyance system allows for stable and predictable production cycles. End-product process equipment consists of various distillation and treatment stages that separate the liquid output into a variety of market ready fuel and aromatic components.