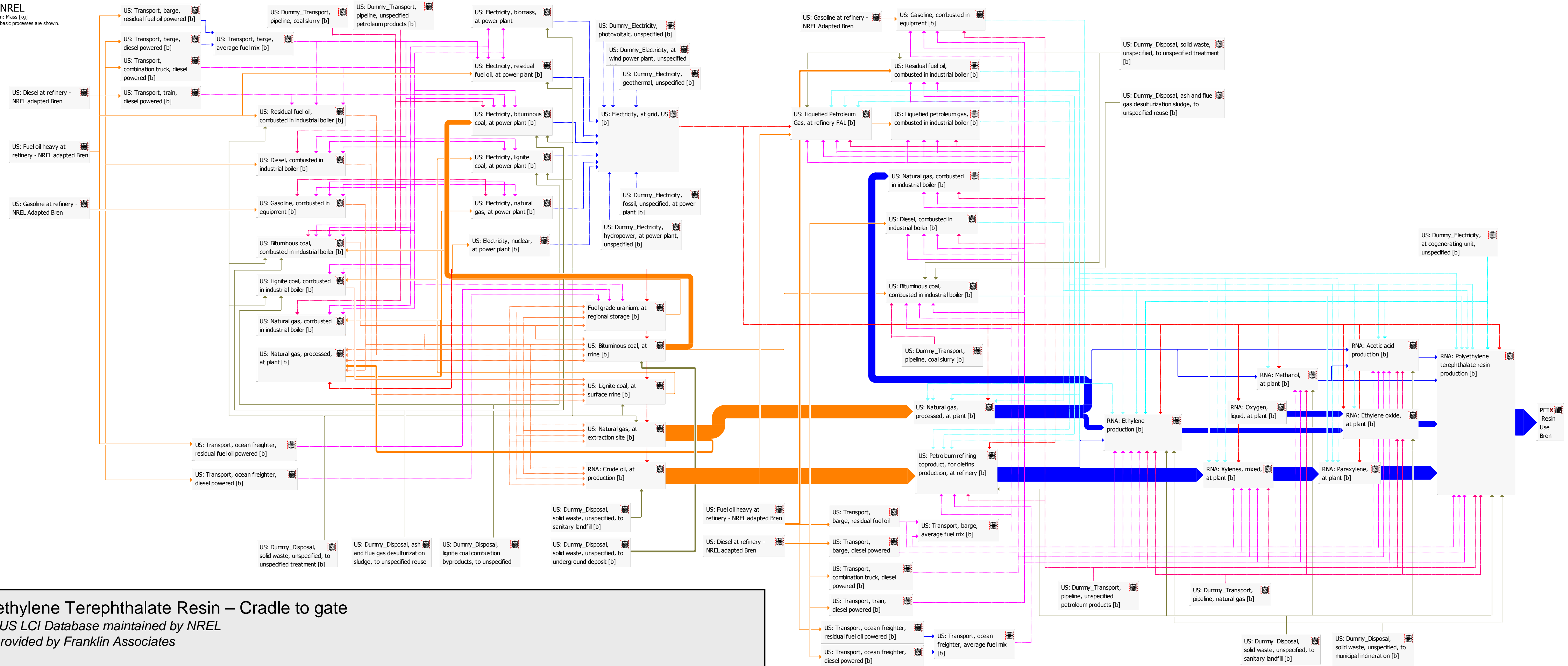


PET All - NREL  
 GaBi 4 process plan: Mass [kg]  
 The names of the basic processes are shown.



**Polyethylene Terephthalate Resin – Cradle to gate**  
 Using US LCI Database maintained by NREL  
 Data provided by Franklin Associates

This plan shows the manufacturing and support processes required to produce one functional unit of bottle-grade PET resin, beginning with extraction of feedstocks and fuels. Process flow includes transportation and energy provisioning and waste disposal. The left half of the chart shows the support system for the raw material extraction and electricity provisioning sectors. The right half shows the manufacturing process flow, along with fuel production, transportation, and waste disposal supporting systems. Line widths indicate relative mass of the flows (energy and transportation provisioning flows do not have mass and are drawn as broken lines). Process inventory data were imported from the NREL-maintained database into GaBi 4.3.

**Legend**

- Material Feedstocks
- Primary Energy
- Energy Provisioning for extraction
- Energy Provisioning for manufacture
- Energy from electric grid
- Transportation Provisioning
- Transportation Provisioning, no data available ('Dummy process')
- Waste Disposal

Produced by Brandon Kuczenski for UCSB, Jan 2009.