

Appendix D. Data and Methodology Changes

Tables and data files in the State Energy Data System (SEDS) supply a new year of data each production cycle. The latest data may be preliminary and, therefore, revised the following cycle. Changes made to consumption and price source data for historical years are also regularly incorporated into SEDS.

Listed below are changes in SEDS contents beyond the standard updates.

Petroleum

Hydrocarbon gas liquids (HGL)

For all years, “hydrocarbon gas liquids” (which covers butylene, ethane, ethylene, isobutane, isobutylene, natural gasoline, normal butane, propane, and propylene) replaces “liquefied petroleum gases” (LPG), which includes all HGL except natural gasoline (formerly pentanes plus), as a petroleum product. Natural gasoline (pentanes plus), which was included in “other petroleum products” through 2015 SEDS reports, is now included in HGL.

For 2010 forward, SEDS has revised all sector consumer grade propane price estimates using data from survey forms EIA-782A, “Refiners’/Gas Plant Operators’ Monthly Petroleum Product Sales Report,” and EIA-782B, “Resellers’/Retailers’ Monthly Petroleum Product Sales Report.” Regression equations are used to estimate propane prices for 2011 forward; residential sector regression equations use EIA’s State Heating Oil and Propane Price survey prices while the commercial, industrial, and transportation sector regression equations use EIA-782A wholesale propane prices. Industrial sector prices are developed for two components: propane and other HGL. Industrial sector HGL prices are the consumption-weighted average prices of the two series. Other HGL prices in the industrial sector are estimated using daily Bloomberg spot prices.

Prior to 2010, SEDS assumes HGL prices are equal to historical SEDS LPG prices, which are represented by consumer grade propane in all sectors except for a few exceptions in the industrial sector in the early period.

For expenditure calculations, propane and other HGL products consumption values are taken from SEDS. Prior to 2010, industrial sector consumption was adjusted to exclude natural gasoline (pentanes plus). However, for 2010 forward, natural gasoline is no longer excluded in the calculation of industrial sector HGL expenditures.

For full HGL methodology, see Section 4 of the Price Technical Notes.

Other petroleum products

For all years, SEDS redefines “other petroleum products” to exclude petroleum coke, which is published as a separate petroleum product, and natural gasoline (formerly pentanes plus), which is included in “hydrocarbon gas liquids.” The 11 products now defined as “other petroleum products” are: aviation gasoline blending components, crude oil, motor gasoline blending components, naphtha used as petrochemical feedstocks, other oil used as petrochemical feedstocks, still gas, still gas used as petrochemical feedstocks, special naphthas, unfinished oils, waxes, and miscellaneous petroleum products.

Petroleum coke

For all years, petroleum coke is no longer included in “other petroleum products” and is now published as a separate petroleum product category.

Total petroleum

For all years, total petroleum products has been updated to equal the sum of 11 products: asphalt and road oil, aviation gasoline, distillate fuel oil, jet fuel, kerosene, hydrocarbon gas liquids (HGL), lubricants, motor gasoline, petroleum coke, residual fuel, and other petroleum products.