CLAIMS

1. A process, the process comprising the steps of:

(a) subjecting a hydrocarbon feed to dearomatization to produce a first stream comprising aromatic hydrocarbons and naphthenic hydrocarbons and a second stream comprising alkanes;

(b) subjecting the stream comprising aromatic hydrocarbons and naphthenic hydrocarbons to ring opening to produce alkanes from the ring-opened aromatic hydrocarbons and naphthenic hydrocarbons; and

(c) subjecting only the alkanes from step (b) to gas separation, and

(d) subjecting individual gases produced in the gas separation to olefins synthesis, wherein the olefins synthesis is selected from the group consisting of non-catalytic pyrolysis of ethane, non-catalytic pyrolysis of propane, catalytic pyrolysis of butane, catalytic dehydrogenation of propane and catalytic dehydrogenation of butane,

wherein said hydrocarbon feed comprises:

one or more of naphtha, kerosene and gasoil produced by crude oil distillation in the process; and

at least one member selected from the group consisting of refinery unit-derived light-distillate and refinery unit-derived middle-distillate produced in the process; and

wherein the process is integrated.

2. The process according to claim 1, further comprising subjecting the alkanes produced in at least one of steps (a) or (b) to reverse isomerization to produce n-alkanes which are subjected to the olefins synthesis.

3. The process according to claim 1, wherein the ring opening produces a first stream comprising LPG and a second stream comprising C4+ alkanes and wherein said stream comprising C4+ alkanes is combined with alkanes produced by dearomatization.

4. The process according to claim 1, wherein said alkanes from at least one of steps (a) or (b) comprise C4+ alkanes, and subjecting the C4+ alkanes to liquid cracking.

5. The process according to claim 1, which process further comprises:

(a) subjecting crude oil to crude oil distillation to produce one or more of gases fraction, naphtha, kerosene, gasoil and resid; and

(b) subjecting resid to resid upgrading to produce LPG and light- and middle-distillate.

6. The process according to claim 5, wherein the resid upgrading is resid hydrocracking.

7. A process consisting of the steps of:

(a) subjecting a hydrocarbon feed to dearomatization to produce a first stream comprising aromatic hydrocarbons and naphthenic hydrocarbons and a second stream comprising alkanes;

(b) subjecting the stream comprising aromatic hydrocarbons and naphthenic hydrocarbons to ring opening to produce alkanes from the ring-opened aromatic hydrocarbons and naphthenic hydrocarbons; and

(c) subjecting the alkanes from step (b) to gas separation, and

(d) subjecting individual gases produced in the gas separation to olefins synthesis, wherein the olefins synthesis is selected from the group consisting of non-catalytic pyrolysis of ethane, propane, and butane, catalytic dehydrogenation of propane and catalytic dehydrogenation of butane,

wherein said hydrocarbon feed comprises:

one or more of naphtha, kerosene and gasoil produced by crude oil distillation in the process; and

refinery unit-derived light-distillate and/or refinery unit-derived middle-distillate produced in the process; and

wherein process is integrated.

8. The process according to claim 2, which process further comprises:

(a) subjecting crude oil to crude oil distillation to produce one or more of gases fraction, naphtha, kerosene, gasoil and resid; and

(b) subjecting resid to resid upgrading to produce LPG and light- and middle-distillate.

9. The process according to claim 8, wherein the resid upgrading is resid hydrocracking.