

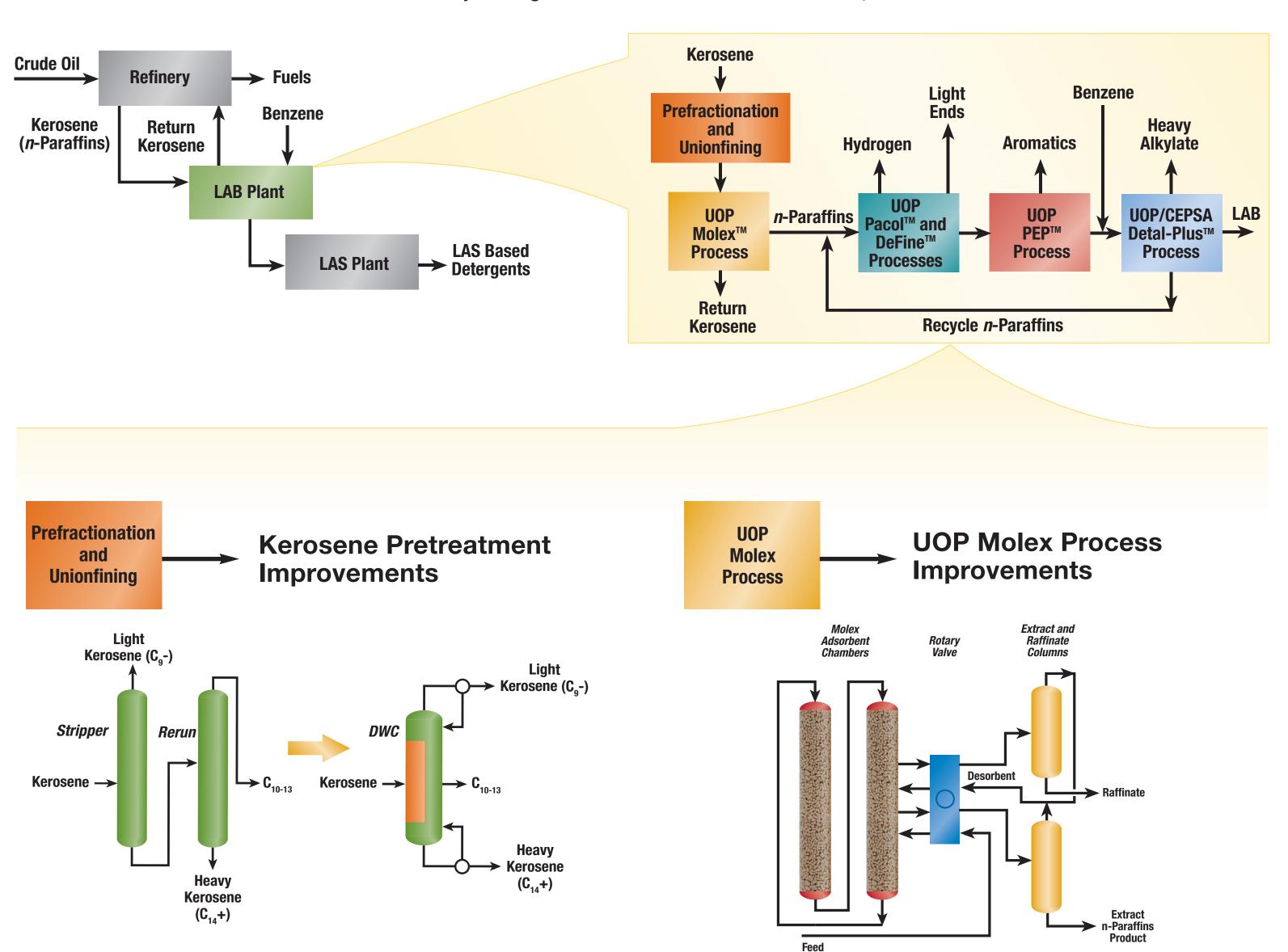
Energy Efficient Plant Designs for Linear Alkylbenzene (LAB)

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Cost reduction improvements are being implemented into the latest LAB plant designs for a significant reduction in energy and capital requirements.

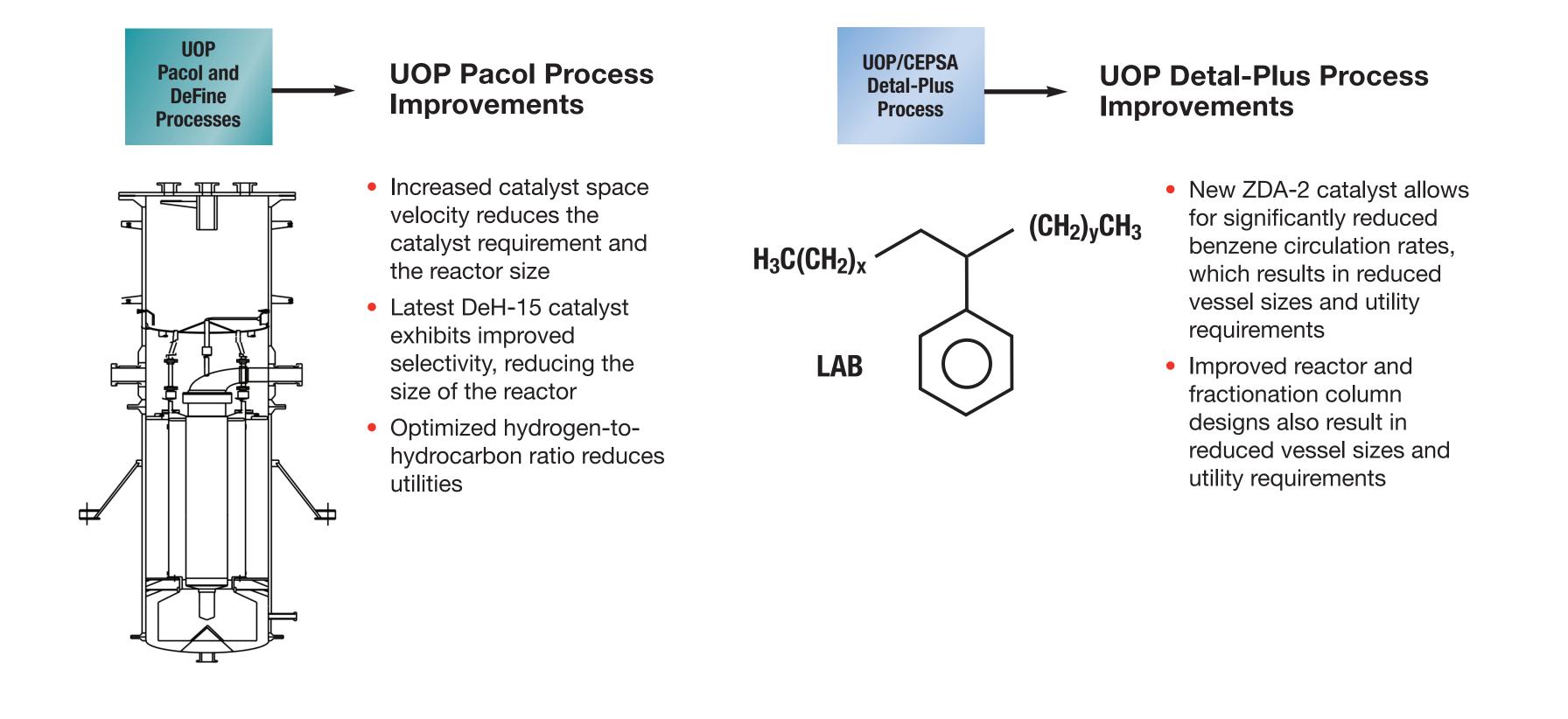
Linear Alkylbenzene Sulfonate (LAS) accounts for more than 40% of all surfactants used in household laundry detergents

Solid Bed Alkylation (Detal-Plus) is the alkylation technology of choice for new LAB plants



- Single Dividing Wall Column (DWC) replaces traditional 2-column unit for reduced capital and utility requirements
- Newly developed catalysts result in operation at lower separator pressures
- Reduced Rotary Valve cycle times increase throughput
- The addition of a tertiary flush, and reduction in circulation and reflux rates reduce the size of the columns in the unit and the utilities requirements

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25% reduction in energy costs and capital costs from latest LAB plant technologies!

* 100 KMTA LAB Plant



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