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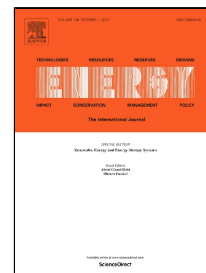
A novel energy-saving pressure swing distillation process based on self-heat recuperation technology

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Highlights:

- Application of Self-heat recuperation (SHR) to PSD process was investigated.
- HEN was applied to design the heat integration of the novel SHR-PSD process.
- The novel SHR-PSD process could not only save energy but also reduce the TAC.
- The novel SHR-PSD process produced the lowest CO₂ emissions.

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