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Title: Improving n-butanol production in batch and semi-continuous processes through integrated product recovery

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Highlights

- *In situ* product recovery is an effective strategy for enhancing n-butanol production.
- Solvent extraction, adsorption, and vaporization can be exploited through integrated process designs.
- Enhanced volumetric production, yield, and productivity are possible.
- Further n-butanol production improvement via semi-continuous (e.g., fed-batch) operation

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