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Title: Improving the solvent-extraction process of rice bran oil

Author: Weibin Kong Qian Kang Wei Feng Tianwei Tan

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Highlights:

*The pilot-plant extraction of rice bran oil was assessed.

*The solvent-extraction and associated processes were simulated.

*Results and field data are shown to be in good agreement.

*Energy optimization was performed using pinch technology and gas membrane technology.

*Nearly 50 % of energy can be saved in comparison with the original process.

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