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Highlights

- This paper evaluate the effect of tobacco industry's technical measures for energy conservation and emissions reduction, which have not been studied widely by previous research.
- A comprehensive index combining the quantitative and qualitative indicators is constructed, meanwhile, the AHP and Delphi expert consultation method are applied. Thus, the application effects of various energy saving technologies can be evaluated comprehensively and objectively.
- The selection of advanced and applicable energy saving and emission reduction technologies by enterprises provides the basis for scientific decision-making.

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