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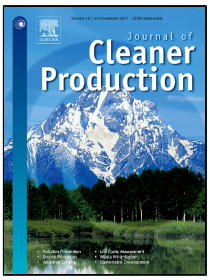


A graphical dual objective approach for minimizing energy consumption and carbon emission in production planning

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| PII: | S0959-6526(17)32276-X |
| DOI: | 10.1016/j.jclepro.2017.09.272 |
| Reference: | JCLP 10777 |
| To appear in: | *Journal of Cleaner Production* |
| Received Date: | 25 May 2017 |
| Revised Date: | 28 August 2017 |
| Accepted Date: | 29 September 2017 |

Please cite this article as: Rakesh Kumar Sinha, Nitin Dutt Chaturvedi, A graphical dual objective approach for minimizing energy consumption and carbon emission in production planning, *Journal of Cleaner Production* (2017), doi: 10.1016/j.jclepro.2017.09.272

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**Highlights**

- Methodology for production planning of different process routes is proposed.
- Production planning considers two objectives: carbon emission and energy consumption
- One of the objective is minimized while other is constrained within a predefined limit
- Inclusion of a process route is based on its Prioritized Minimizing Objective Factor

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