

## Accepted Manuscript

Energy-efficient scheduling in manufacturing companies: a review and research framework

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PII: S0377-2217(15)00650-5  
DOI: [10.1016/j.ejor.2015.07.017](https://doi.org/10.1016/j.ejor.2015.07.017)  
Reference: EOR 13105



To appear in: *European Journal of Operational Research*

Received date: 3 December 2014  
Revised date: 15 April 2015  
Accepted date: 3 July 2015

Please cite this article as: Christian Gahm , Florian Denz , Martin Dirr , Axel Tuma , Energy-efficient scheduling in manufacturing companies: a review and research framework, *European Journal of Operational Research* (2015), doi: [10.1016/j.ejor.2015.07.017](https://doi.org/10.1016/j.ejor.2015.07.017)

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## Highlights

- We develop a research framework for energy-efficient scheduling (EES)
- Energetic coverage, energy-supply and energy-demand are main EES categories
- We categorize the current state of literature into the developed framework
- Numerical benefits of EES approaches with real-world case studies are presented

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