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## Towards Exascale HPC and Data Intensive Algorithms in the Energy Industry

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### Message from the Guest Editors

The present Special Issue explores different exascale candidate problems for the energy industry, targeting possible novel algorithms and possible modeling approaches. In this issue, we will focus on the following problems of the energy industry, specially targeting oil and gas, biofuel and wind energy:

- Geophysical exploration for subsalt hydrocarbons
- Reservoir modeling in naturally fractured reservoirs
- Multiphase flows in pipelines with heavy oil
- Molecular modeling of catalysts for heavy oil refining
- Combustion simulation tools to optimize fuel-biofuel design and performance towards more sustainable and greener transport systems
- Develop methodologies to understand and predict the multi-scale atmospheric motion relevant for the operation and performance of wind farms in complex wind situations

Deadline for manuscript submissions:

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# Special Issue



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## Editor-in-Chief

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## Message from the Editor-in-Chief

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