Energy system challenges and the mathematics to solve them

RESULTS OF A BRAINSTORM ORGANIZED BY THE DUTCH PLATFORM FOR MATHEMATICS

Our energy system needs to change from fossil-fuel based to one based on sustainable energy. This raises significant challenges, such as enhancing the resilience of the energy system against future (price) perturbations and further optimizing the use of the existing capacity.

This infographic identifies major areas where advances in mathematics and computing can lead to immediate and long-term solutions to the challenges around energy systems in the Netherlands and beyond. It is the outcome of a half-day brainstorm session of mathematicians with stakeholders in energy systems.

For each of the central challenges, mathematical research groups in the relevant fields are ready to contribute. To get the full whitepaper or to find potential collaborators, contact *innovatie@platformwiskunde.nl*

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