

Drying and Dewatering

Publieke samenvatting / Public summary

Doelstelling

Drying process are responsible for about 18% of total energy consumption in the (Dutch) process industry. The main objectives for projects on this theme are generating breakthrough research into energy efficient drying and dewatering. The aim is to develop technologies that enable a substantial reduction in energy consumption by 20-50%. It could be dealing with mechanical dewatering (sedimentation, flotation, filtration, centrifugation, spiral separators); membrane processes; thermal dewatering (evaporation, crystallization); drying processes. The projects have to cope with reaching good product quality as well as reduction of the usage of energy. The cluster strives for process innovations that avoid drying steps or achieve a breakthrough on complete new techniques or process steps.

Korte omschrijving

Designing / selecting and scaling up the right equipment and the right drying conditions is a challenging process, therefore the cluster also searches for projects that can promote the predictability of satisfactory functioning drying processes for the industry. Given the complexity of these processes has thereby a multi-disciplinary approach is preferred. These can be single or multiple-dropletstudies approach with a combination of, product science, materials science, physical chemistry, physics, numerical calculation and process engineering

Projectinformatie / Project information

Projectnummer / Project number

TKITOEDD-20-03DD-20-04

Subsidiebedrag / Grant amount

€ 500.000,00

Algemene informatie / General information

Penvoerder / Secretariat

TKI

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