

## TECHNOLOGY FOR OBTAINING HIGHLY CONCENTRATED SLURRY FUEL FROM COAL



Highly concentrated suspension fuel based on coal

◀ Production of highly concentrated suspension based on coal

### Areas of Application

Highly concentrated slurry fuel (HCSF) based on coal and wastewater of coke, chemical, pharmaceutical, and polymer refineries and factories can be used in boilers at TPPs, CHPs, light industry factories, refineries, cement plants, housing and public utilities enterprises

### Specification

This technology enables obtaining HCSF with a maximum concentration of solid particles of 60–75% (wt.), a particle size of 1–250  $\mu\text{m}$ , an effective viscosity of 1.0–1.5  $\text{Pa} \cdot \text{s}$  at a warp rate of  $9 \text{ s}^{-1}$ , and an aggregate and sedimentation stability of 12–30 days

### Advantages

As compared with known methods, this technology can increase the sedimentation stability of dispersed fuels 2–3 times while keeping their properties that meet the process requirements for direct combustion in power plants. The use of organic effluents as dispersive medium provides a comprehensive solution to the problem of organic effluent disposal and enables to increase the fuel value

### Stage of Development.

#### Suggestions for Commercialization

IRL3, TRL3

Upon request, the technology is customized to the specific requirements and staff training is provided

### IPR Protection

IPR2, IPR3

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