



## Biomass Co-firing Expertise

Bioenergy accounts for roughly 10 % of the world's total primary energy supply. We support clients in developing customized bioenergy concepts making use of our specific project know-how in co-generation, biomass combined heat power plants, biogas and biofuel plants.

Worldwide coal is still an important fuel for energy generation. However the need to reduce CO<sub>2</sub> emissions requires more advanced and highly efficient coal plants. Therefore, clients worldwide assign RWE to modernize coal generation plants by implementing new, innovative technologies and pollution control techniques. Burning biomass is getting more popular as it can be a clean ('carbon neutral') way of generating electricity.

By testing and examining plant technology, fuel supply routes, unloading technologies, storage, mitigation of dust and ash management we help plant operators in their coal-to-biomass conversion project. We have experience with a wide range of combustion technologies applicable for various coal qualities. Our contribution ranges from due diligence, market and



- Reduce carbon footprint of your coal-fired power plant
- Reduce CO<sub>2</sub> emissions
- Reduce local environmental impact of your plant
- Diversify fuel supply, therefore reduce dependence on main fuel price fluctuations
- Comply with environmental standards and climate change targets

## Your Benefits

## Our Approach

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### Areas of Expertise

- Co-combustion technologies
- Biomass plants
- Gas turbines (OCGT, CCGT)
- CHP
- Combustion optimization
- Plant refurbishment
- Modification of coal burners, mills, feeders, bunkers, classifiers
- Waste-to-energy plants
- Fuel handling (supply routes, flexibility)
- Unloading technologies and storage
- Plant emission reduction technologies

### Services

- Owner's Engineer
- Project development
- Due Diligence