



# COFIRING 9 JAPAN WORKSHOP 25-27 FEB 2020

## Prevention of Fires and Dust Explosions when handling Biomass

Anders Bergstrom  
Firefly AB

Last decade there has been a trend for coal power plants to blend biomass into the coal, to reduce the carbon dioxide emission. One side-effect of this is that the risk for fires and dust explosions will increase dramatically.

This paper will explain why the risk for fires and explosions will increase when using biomass. It will give an introduction to the fundamentals of dust explosions and the ignition criteria's as well as giving suggestions on how to minimize the risk of fires and explosions in the material handling system and in the storage silos.

It will also give a brief introduction to a new test protocol for approval of water mist systems for protection of conveyors.

The presentation mixes theoretical training with examples and videos from live cases.

