

Steam Exploded Black Pellets

An introduction to a cost effective concept in durable pellet production

The benefits of biomass refining to pellets

Refining improves logistics, storage, handling and use of the product



- Large bulk volume
- Wet/high wettability
- Expensive grinding
- Low heating value
- Risk of bio contamination
- Heterogeneous

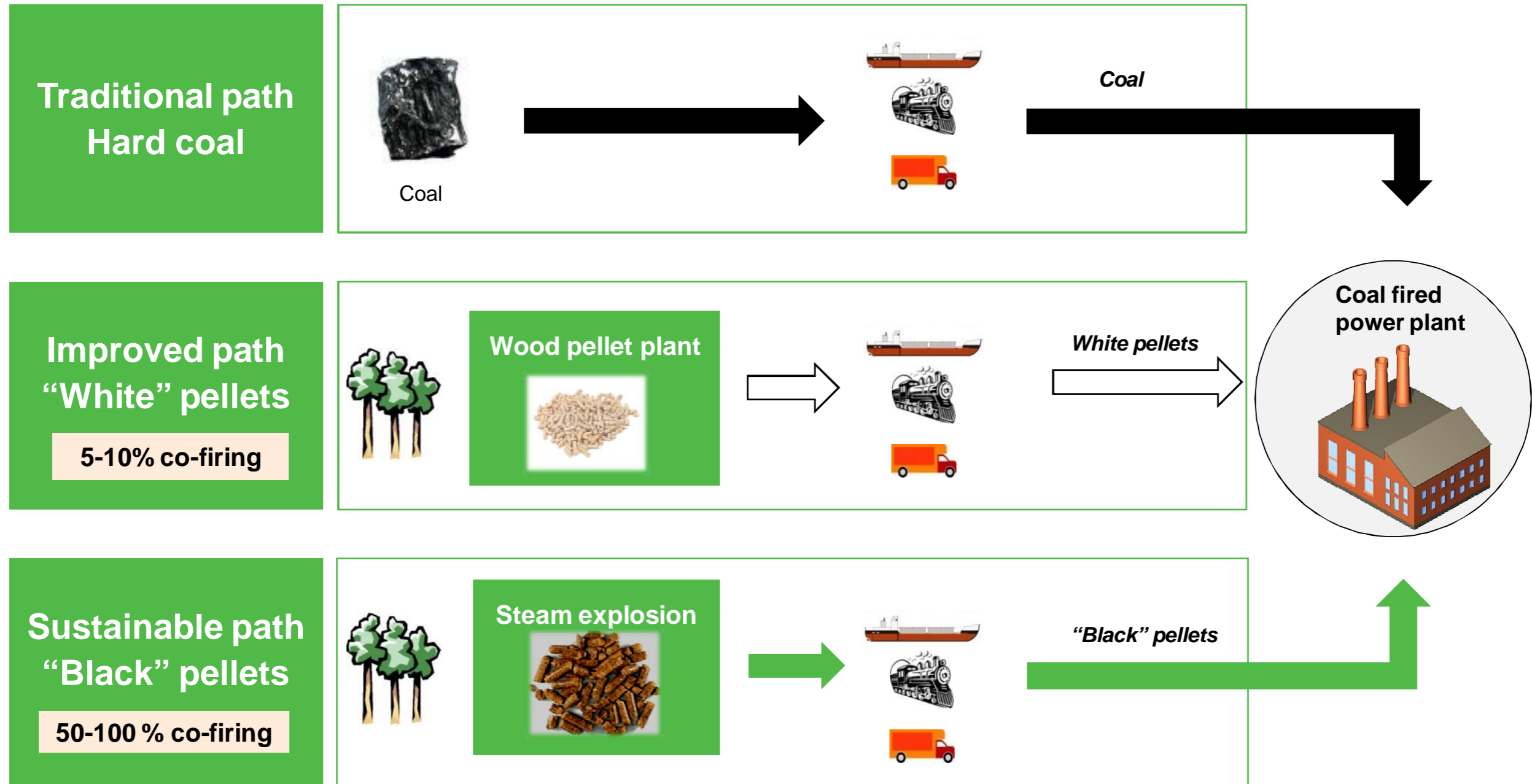
Refining



- Compactable material
- Hydrophobic material
- Reduced grinding cost
- High heating value
- Homogeneous
- Inert material

The use of Black Pellets

The primary use is for co-firing in coal power plants

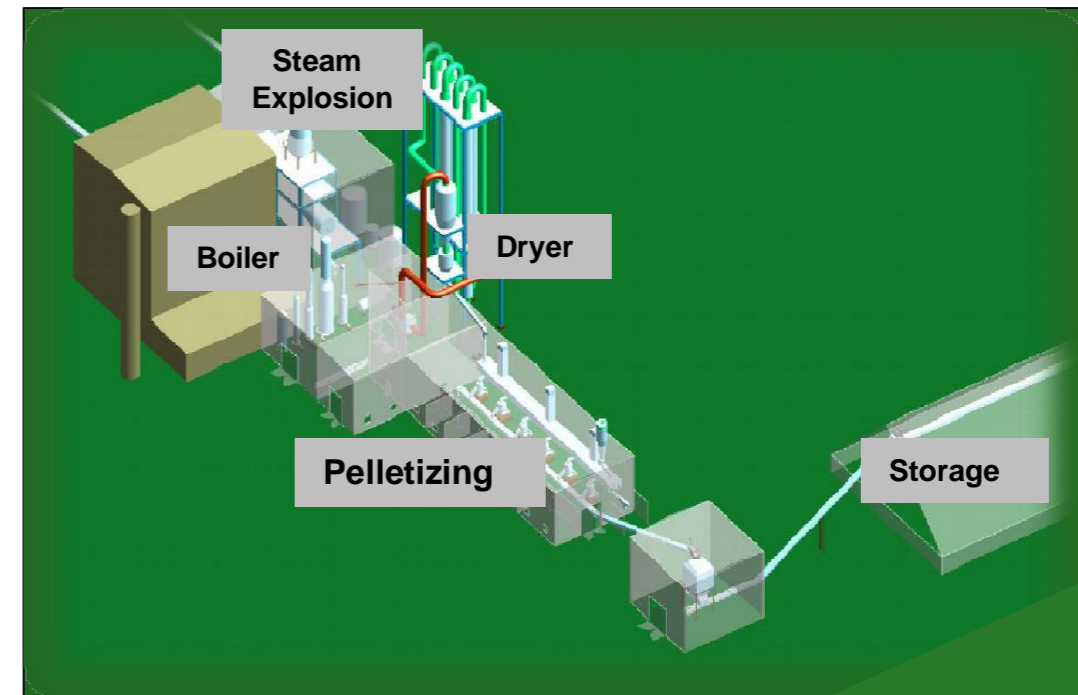


Technical options

Dimensioning data and capacity ranges

- Plant integration options
 - Stand-alone "green-field" plant
 - Various integrations options such as biomass based CHP system, upgrade of a white pellet plant etc
- Technical options
 - Technology based on proven technology
 - Direct (flue gas drying)
 - Indirect (steam drying)
- Capacity options
 - 50 ... 200 kt/a, modular design
- Raw materials
 - The raw material is woody biomass residues, bark, round-wood
 - Agro residues in the future

Steam explosion plant overview



Valmet

FORWARD

