

THE TURNKEY SOLUTION

Straw-fired Power Plants



Burmeister & Wain Scandinavian Contractor A/S

STRAW-FIRED POWER PLANTS

Facing the global challenge of climate change

Global energy consumption continues to increase, while at the same time there is greater emphasis on finding renewable, carbon neutral solutions for power generation.

Power generation from biomass, such as straw, is a proven and cost efficient source of renewable energy. Straw-fired power plants provide the additional benefit of enhancing the local economy by further utilizing domestic resources and through job creation at the plant site and fuel supply chain.

BWSC offers its extensive experience as a turnkey power plant developer, contractor and provider of world-leading efficiency biomass power plants in sizes ranging from 15 - 60 MWe - on time and within budget.

Furthermore, BWSC can provide support through the entire project lifecycle, offering complete operation and maintenance after completion of the turnkey/EPC plant construction.



Straw-fired power plants

Straw is an abundant agricultural resource that is well-suited as fuel for power production.

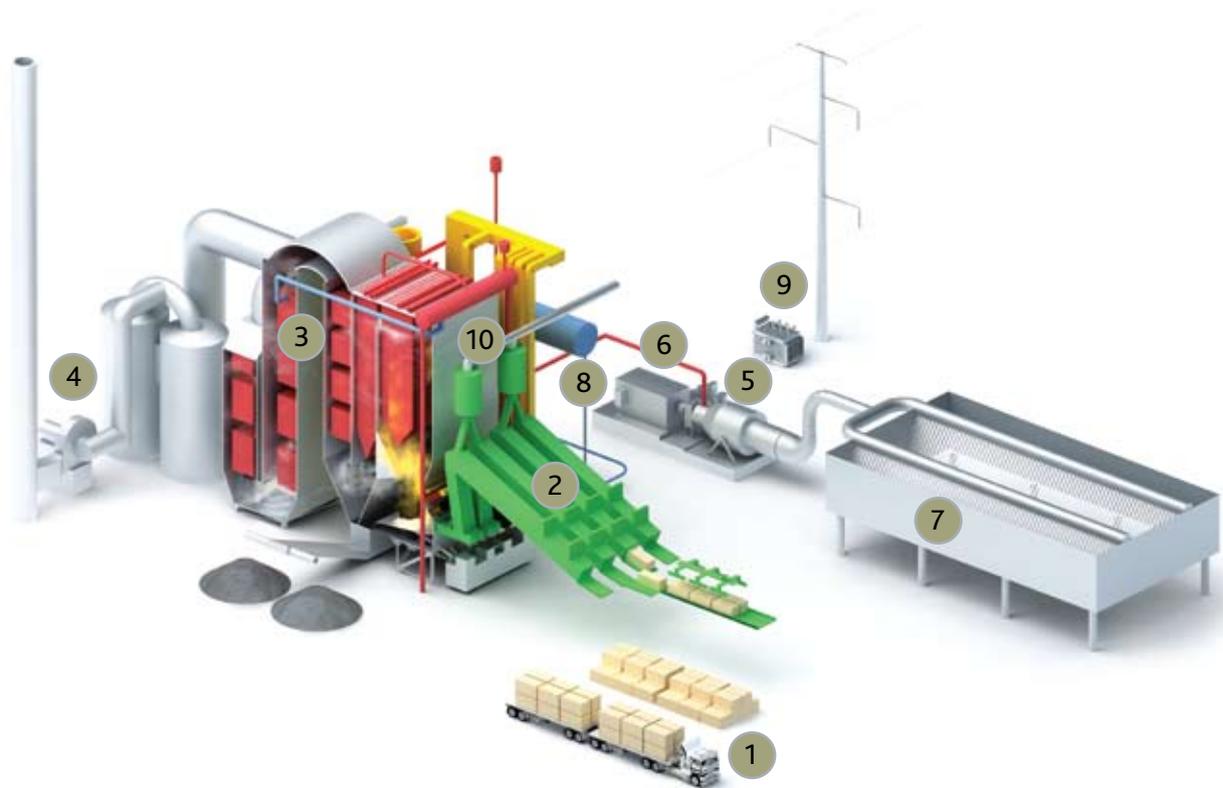
However, straw is a fuel having unique chemical and physical properties requiring special equipment for handling and combustion. Denmark has been at the forefront in development of such equipment, as early as the 1990s, with emphasis on maximizing efficiency and reliability.

BWSC's straw-fired power plants combine this well-proven technology with our expertise in power plant design, construction, operation and maintenance.

STRAW-FIRED POWER PLANTS

A BWSC biomass plant consists mainly of:

1. Fuel reception and storage barn
2. Fuel transport and feed system
3. Steam boiler
4. Flue gas filter and stack
5. Turbine
6. Generator
7. Condensate system
8. Feed water system
9. Electrical supply and export system
10. Optional wood chip fuel system



Plant sizes

BWSC's straw-fired power plants are developed in three standard sizes::

- Net electric output of approx 16.5 MW;
- Net electric output of approx 26.5 MW;
- Net electric output of approx 40.0 MW.

The exact electric output will vary based on site specific conditions and is specified for the power plant in condensing operation without heat supply. BWSC's power plants can also be configured for Combined Heat and Power (CHP) production, with heat output up to 70 MWth. This results in much greater overall efficiency of the plant, but reduces electrical output depending on thermal parameters of the specific heating network.

STRAW-FIRED POWER PLANTS

BWSC - A Reliable Energy Supplier

Burmeister & Wain Scandinavian Contractor A/S (BWSC) is a world-leading provider of turnkey power plants. The plants are designed to produce combined heat and power based on a wide variety of advanced technologies using biomass, biogas and traditional fuels.

We develop, supply, operate and maintain plants according to the client's individual needs and fully compliant with international environmental requirements.

Within the last three decades, BWSC has supplied more than 160 power plants to over 50 countries, with a total generating capacity in excess of 2,900 MW, often under very challenging circumstances in remote corners of the world.

Furthermore, BWSC has long-term technical support and Operation & Maintenance agreements covering plant capacities of above 700 MW.

Throughout the years, BWSC has established lasting relationships with our clients ensuring mutual respect, trust and competence to set new standards based on professionalism and uncompromising quality.



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