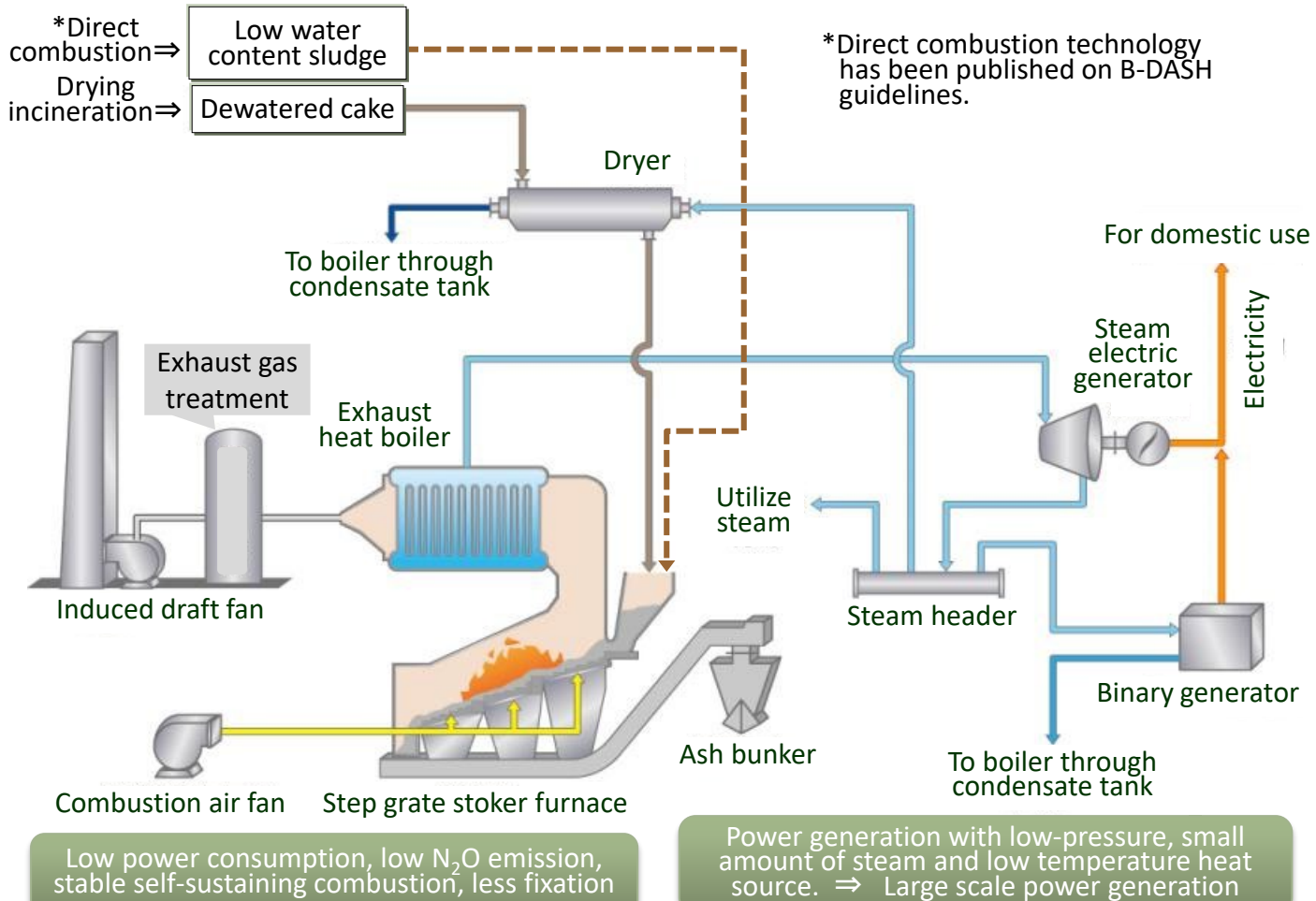


# Power Generation System Using Step Grate Stoker Furnace

Developers: TAKUMA CO., LTD.

The combined system of low water content technology, step grate stoker furnace and waste heat boiler, and steam-electric generator requiring no auxiliary fuel achieves self-sustaining electric system.

## Example of electric generation system flowchart



## Needs

- Power self-sufficiency inside the facility
- Use no supplemental fuel

## Benefits

- Lower power consumption & N<sub>2</sub>O emissions than the conventional bubbling fluidized bed incinerator (high-temperature combustion) contribute to a reduction in greenhouse gas emissions for the entire system
- Facilities above a specific scale can self-sufficient energy with generated electricity
- Self-sustaining combustion needs no auxiliary fuel to reduce O&M costs