

EQTEC GASIFIER TECHNOLOGY

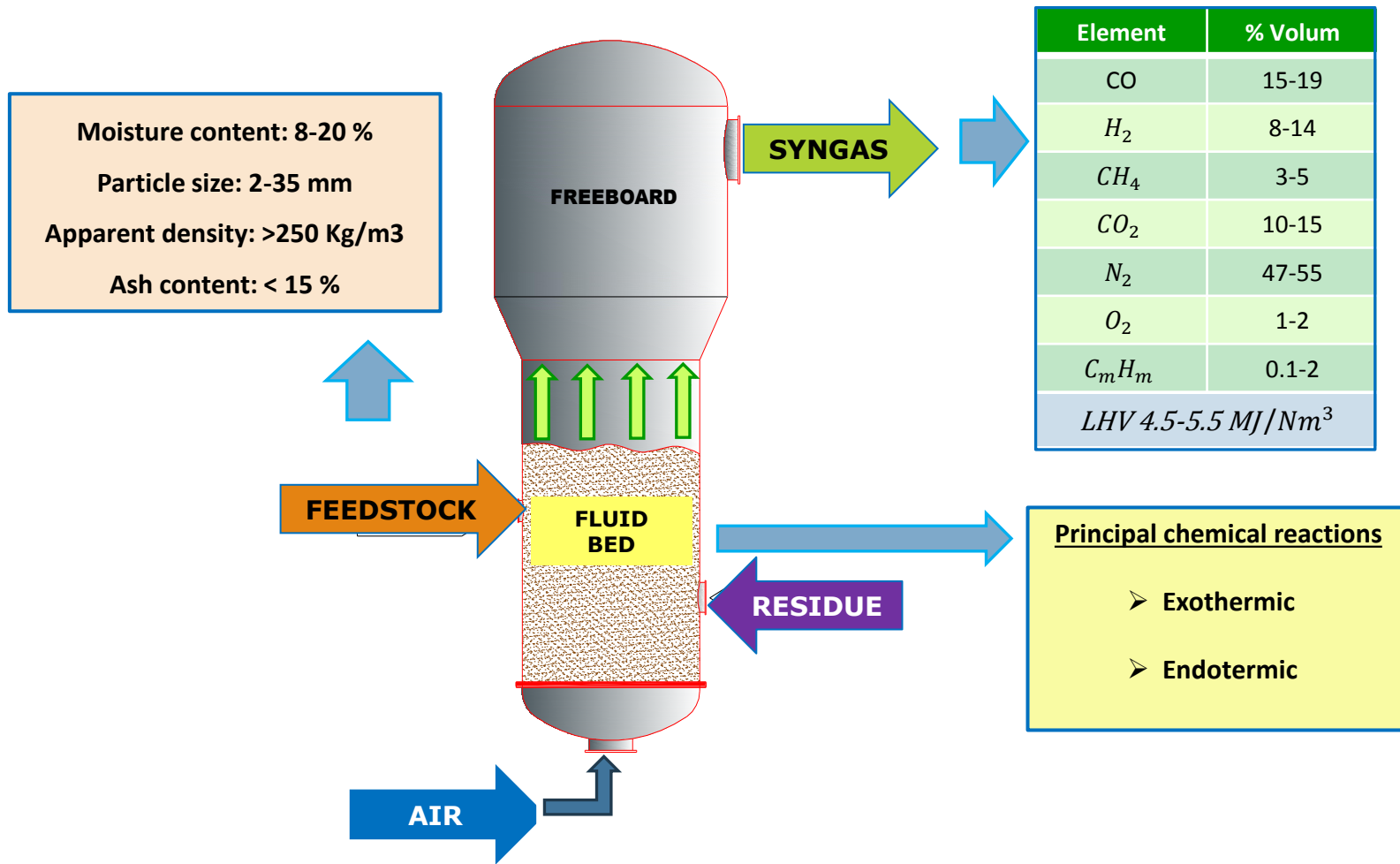
Low-carbon coal technologies
applicable to lignite coal

Options available to the market

Luis Sánchez
CEO EBIOS Energy



БЪЛГАРСКИ ЕНЕРГИЕН & МИНЕН ФОРУМ
BULGARIAN ENERGY & MINING FORUM



OUR TECHNOLOGY IS BASED ON A BUBBLING FLUID BED GASIFIER



COAL, WASTE

- ❖ RDF
- ❖ LIGNITE, COAL
- ❖ SLUDGE
- ❖ MEAT & BONE MEAL
- ❖ DEMOLITION WOOD
- ❖ WASTE PLASTIC
- ❖ INDUSTRIAL WASTE

BIOMASS

- FROM AGRICULTURE
 - ❖ GRAPE BAGASSE
 - ❖ OLIVE PITS
 - ❖ STRAW
 - ❖ ALMOND SHELLS
 - ❖ GRAPE MARC
- FORESTRY WOOD
- WOOD CHIPS
- SAW DUST, PRUNNING

EBIOSS HAS DEVELOPED A PROCESS FOR BIOMASS (AND WASTE) CO-COMBUSTION IN COAL POWER PLANTS

FIRST STEP:

- **Biomass & waste gasification, SYNGAS GENERATION**

SECOND STEP:

- **SYNGAS/coal co-combustion.**

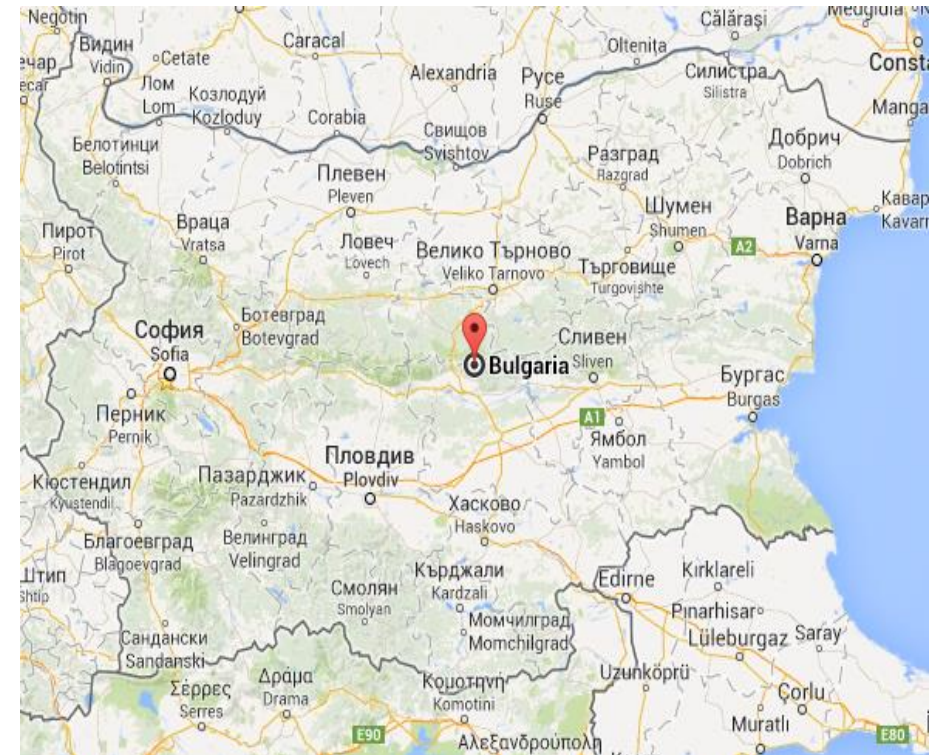
BENEFITS:

- **Minimum coal boiler modifications**
- **Avoiding fouling and ash sintering**
- **Reduction of coal use for power generation**
- **Reduction of pollutant emissions**
- **Reduction of CO2 emissions**

REDUCING THE CARBON FOOTPRINT OF BULGARIAN POWER SECTOR

EBIOSS Energy has ONE Power Plant under construction (Karlovo) and SEVEN plants under development in Bulgaria.

- Total power installed: 19 MW
- Feedstock: 133.000 ton/y wheat straw
- Generation of electricity: 140.000 MWh/y



5 MWe INTEGRATED BIOMASS GASIFICATION POWER PLANT



- PLACE: STROEVO
- GASIFICATION PLANT: 4.620 Kg/h
- GASIFICATION LINES: 2
- FEEDSTOCKS: STRAW PELLETS & WOOD CHIPS
- START UP: *GENUARY 2015*
- INVESTMENT: 20 M€

**THANK YOU VERY MUCH FOR YOUR
ATTENTION**



**A SUSTAINABLE
WAY TO ENERGY**

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