

Custom Design

DGA are responsible for the Design and Manufacture of the Eco Plant range of Biomass, RDF and now MSW fired plants. The equipment manufactured is illustrated on the next slide and includes.

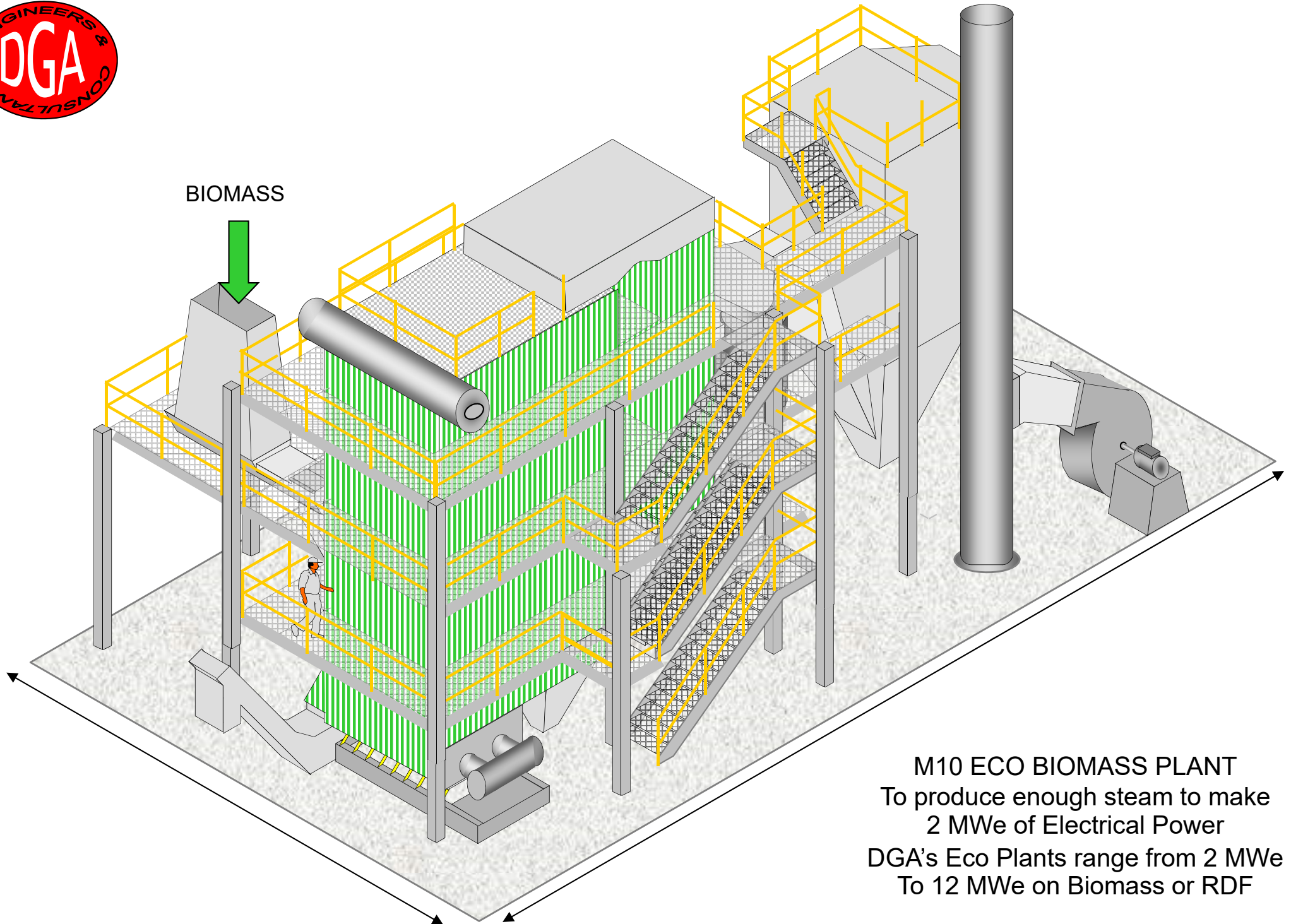
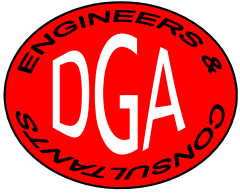
Eco Plants are available for M10 (2 MWe) to M60 (12 MWe) gross power output.

- Process Design
- Pressure Part Design
- Non Pressure Part design
- Control sequence design, we are not control engineers but boiler and combustion designers
- Manufacture design for
 - Boilers to ERK license
 - Grate design either Vee grate, Push Grate or Bubbling Fluid Bed
 - Bottom ash, flyash, sand (for BFB) and reagent storage and handling for the Gas Cleaning Equipment
 - Fuel Storage and Handling systems to suit the Eco Plants and just boiler.
 - Bag Filters to suit the Eco Plant range for biomass to waste fired. We do not design ESP, but can supply.
 - Sizing and selection of fans, oil and gas burners, pumps, valves, sootblowers and other equipment from proprietary equipment manufacturers used on steam boilers and thermal heaters.

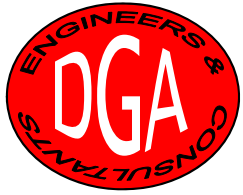
DGA knows Power Plants requirements for Turbine Generators, or ORC machines and knows the worlds suppliers of this Equipment. The choice of which machine fitted can be decided by the client as part of any order placed in DGA

Similarly DGA works in various countries and specific preferences for style of engineering and Civil Engineering can be Accommodated if specified in advance.

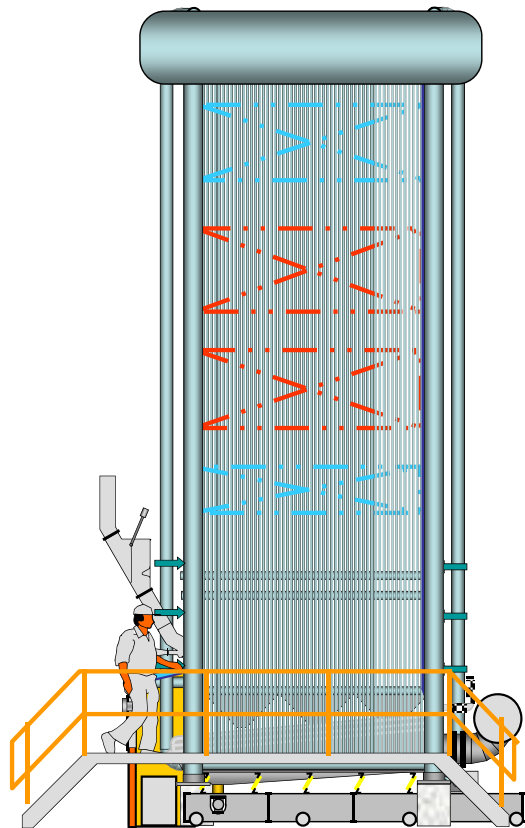
For Larger scale Waste to Energy Plants DGA use the Modular design system



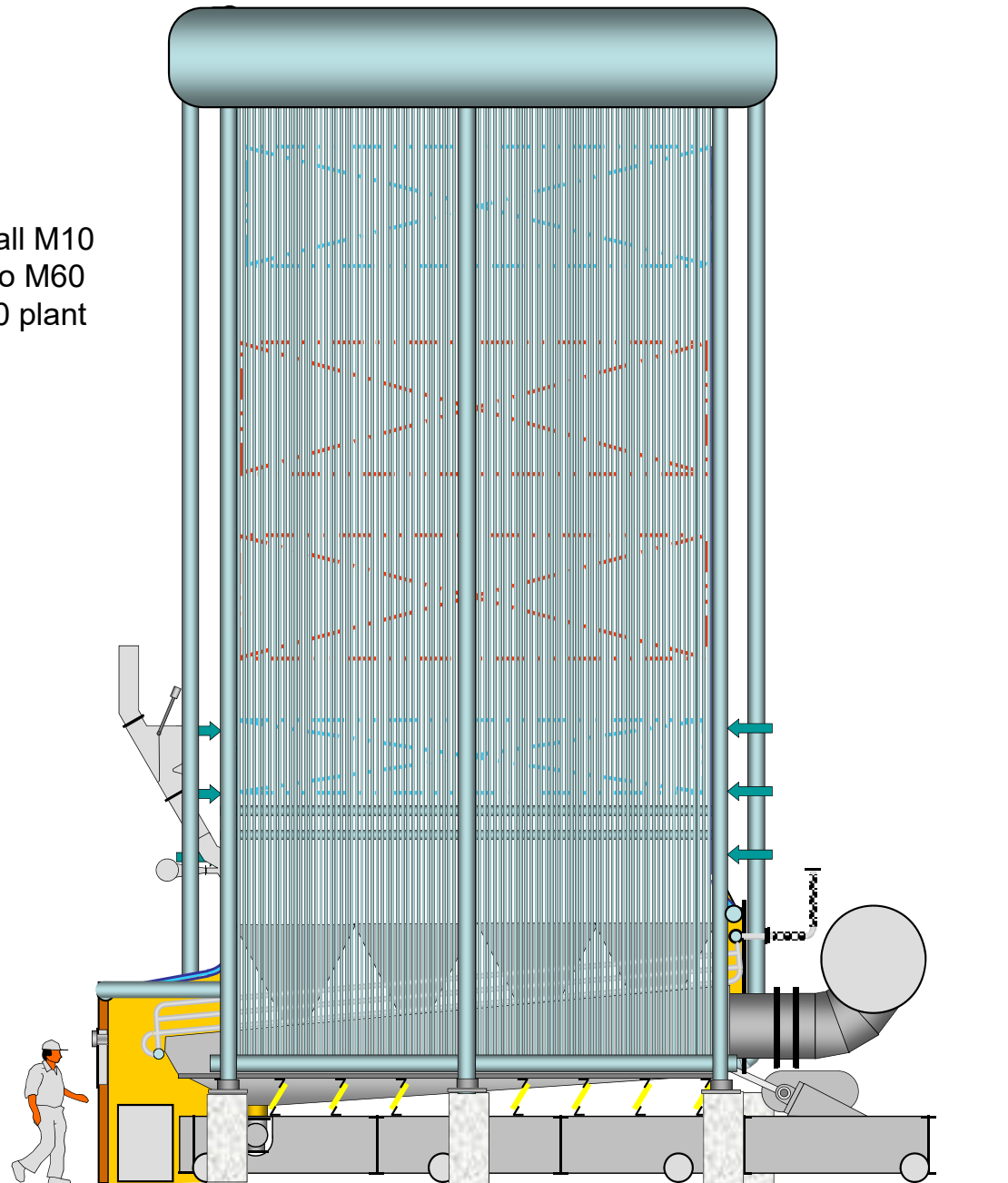
M10 ECO BIOMASS PLANT
To produce enough steam to make
2 MWe of Electrical Power
DGA's Eco Plants range from 2 MWe
To 12 MWe on Biomass or RDF



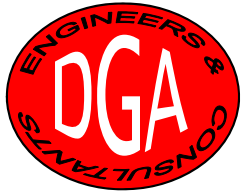
This picture shows the boilers for Eco Plant size range from small M10 plants which will produce 2 MWe gross from biomass or waste to M60 which are a little larger than the M50 plant shown here. The M50 plant will produce 10 MWe and the M60 12 MWe gross.



BOILER FOR M10 PLANT – 2 MWe GROSS

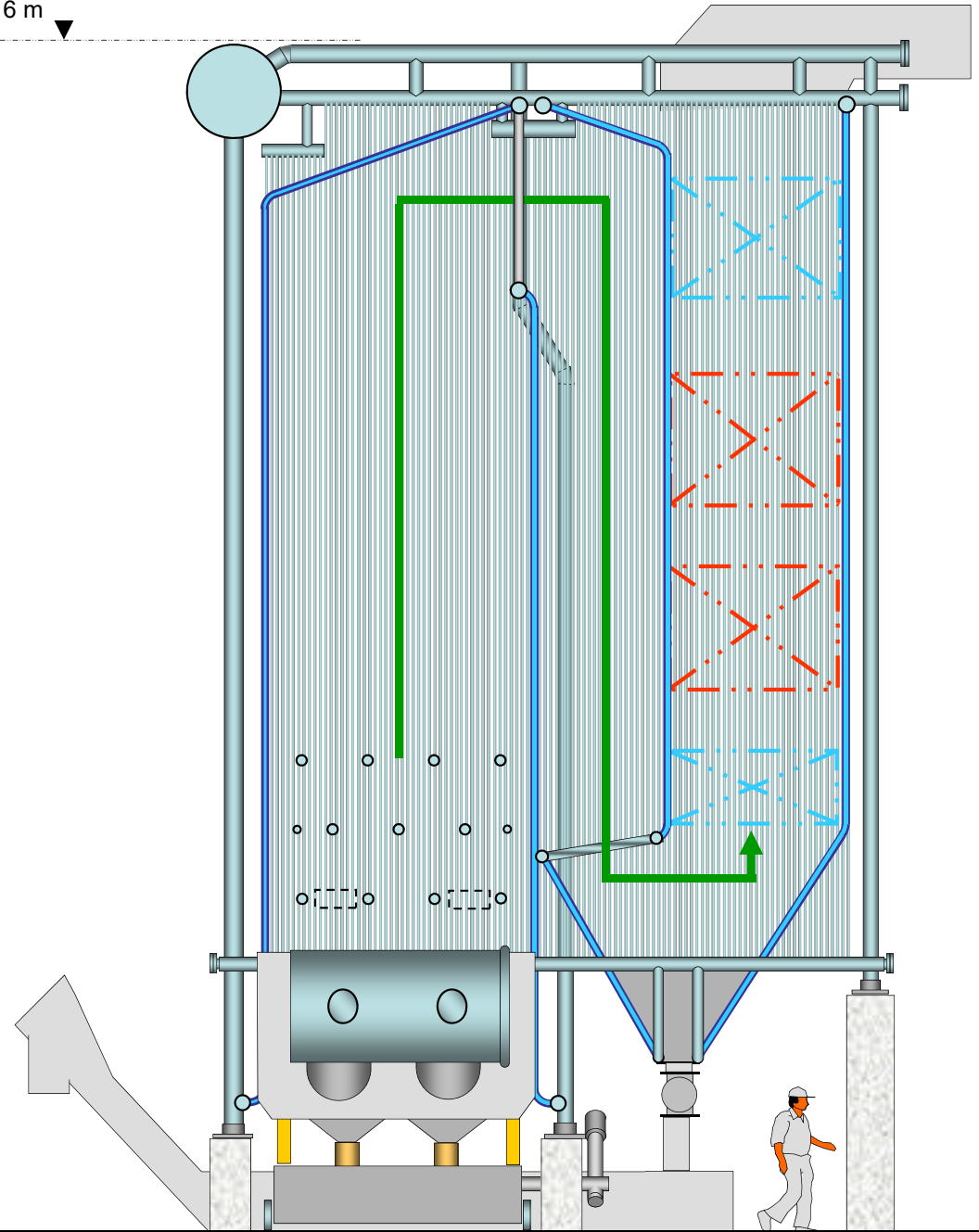
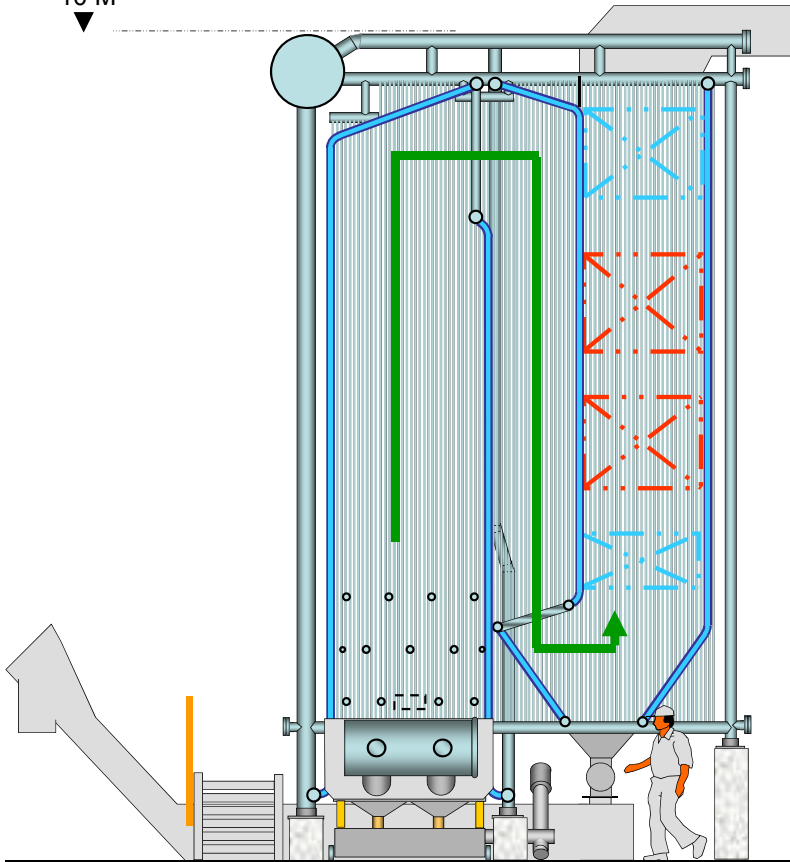


BOILER FOR M50 PLANT – 10 MWe GROSS



16 m

10 M



BOILER FOR M10 PLANT – 2 MWe GROSS

BOILER FOR M50 PLANT – 10 MWe GROSS