



Turbine Corporation



Microgrids combining batteries, UPS's and microgas turbines

Madrid 26th – 27th of November

**Reliable power when and where you need it.
Clean and simple.**

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This presentation contains “forward-looking statements” regarding future events or financial performance of the Company, within the meaning of the Safe Harbor provisions of the Private Securities Litigation Reform Act of 1995.

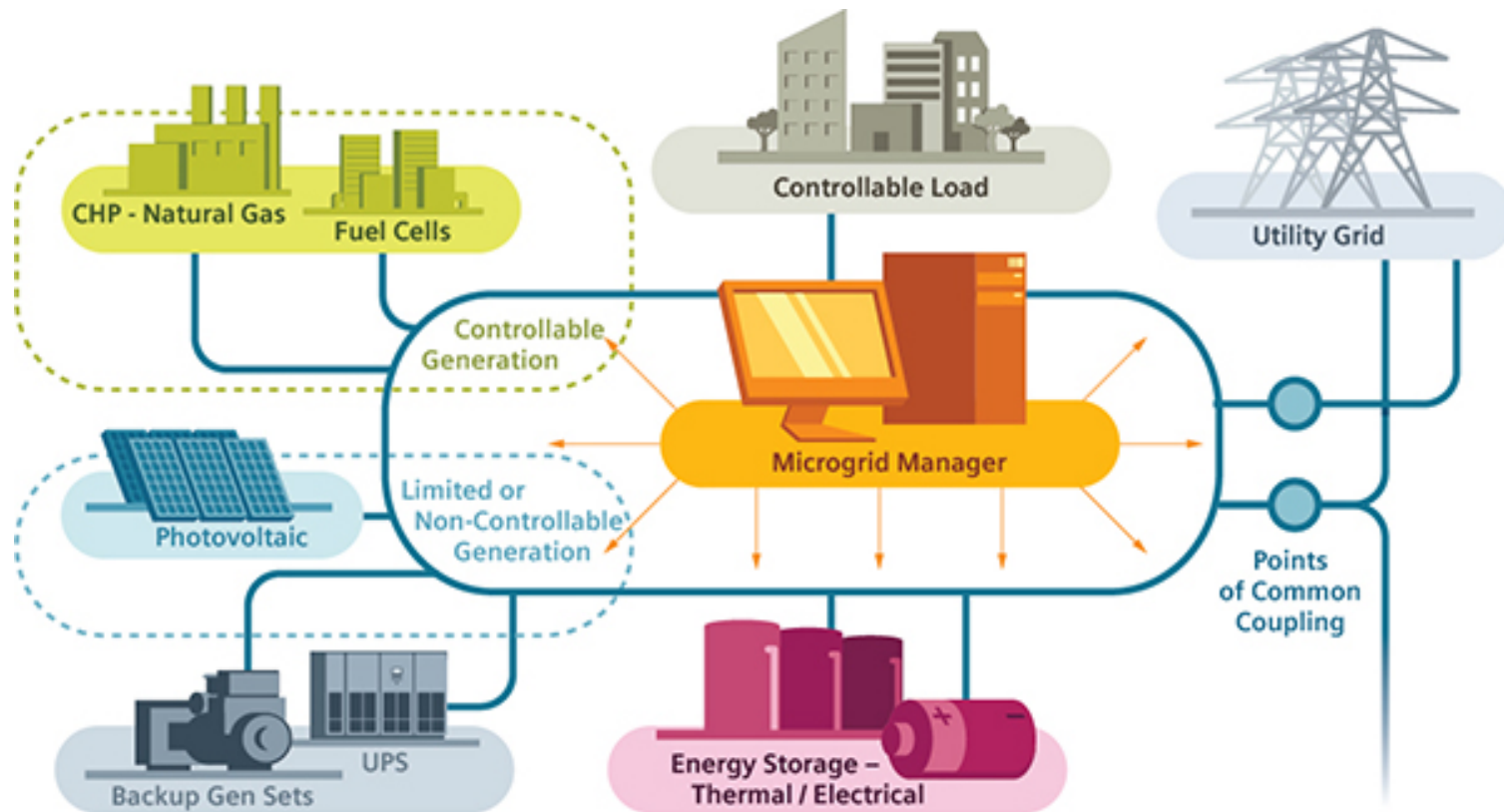
These statements relate to, among other things -- growth and diversification of our end markets; strengthened distribution channels; ongoing new order flow; reduced cash usage; growth in revenue, gross margin and backlog; attaining profitability; adequacy of liquidity and capital resources; improved operating leverage and organizational efficiency; new product development; product reliability; shifts to larger markets for our products; benefits from our cost reduction initiatives; performance in light of macroeconomic headwinds; advantages over competing technologies, Nasdaq listing; implementation of a new Capstone finance business; collection of reserved accounts receivable; opportunities in New York; improved brand equity and product recognition; and a strengthened aftermarket. Forward-looking statements may be identified by words such as “expects,” “objective,” “intend,” “targeted,” “plan” and similar phrases.

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Microgrid definition



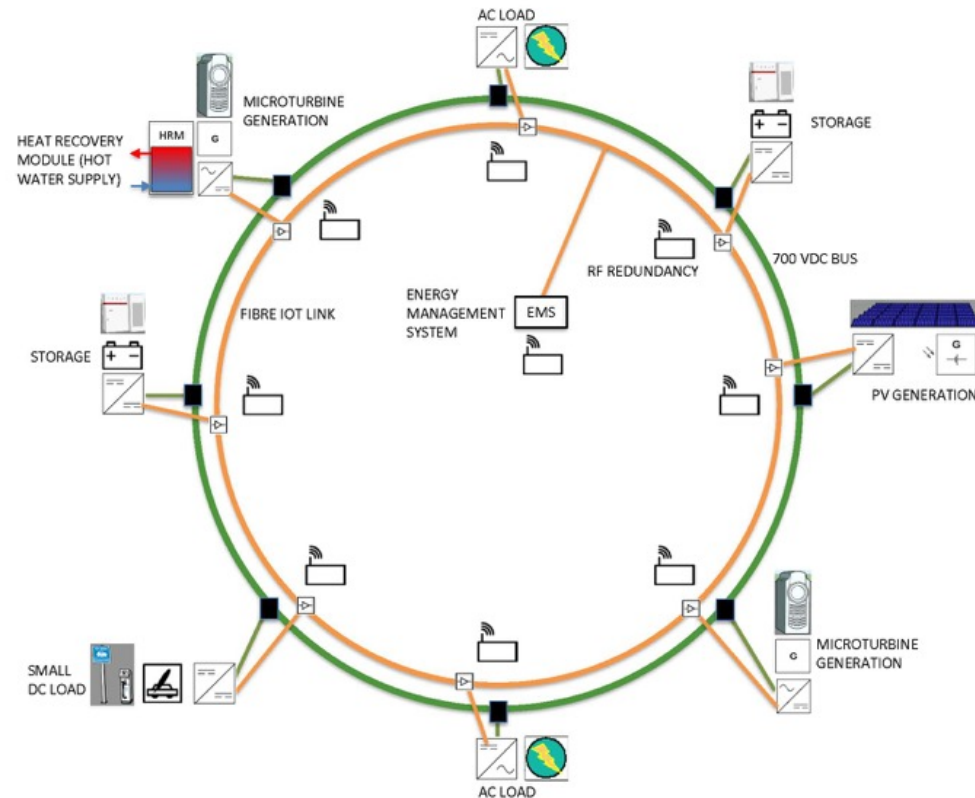
MicroGrid is a group of interconnected loads and distributed energy resources acting as a **single controllable energy entity** with respect to the grid.



Microgrids definition – cont.



Distributed energy resources typically include other **dual-mode microturbines**, reciprocating engines, solar photovoltaic (PV), wind turbine, fuel cells and battery storage, EV power chargers, etc.



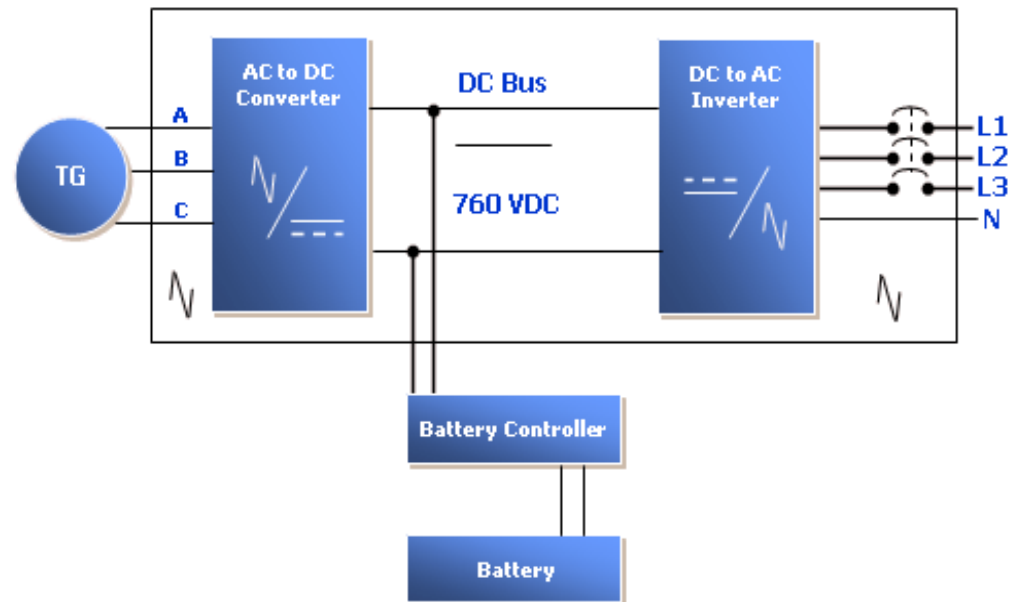
Power Electronics

Inverter-based Power Electronics

- UPS quality power output
- User settable output voltage and frequency
- Auto grid synchronization

Optional Battery

- Battery pack and controller
- Supports off-grid operation
- Handles fast load transients



Valagro Italy



FERTILIZER PRODUCER

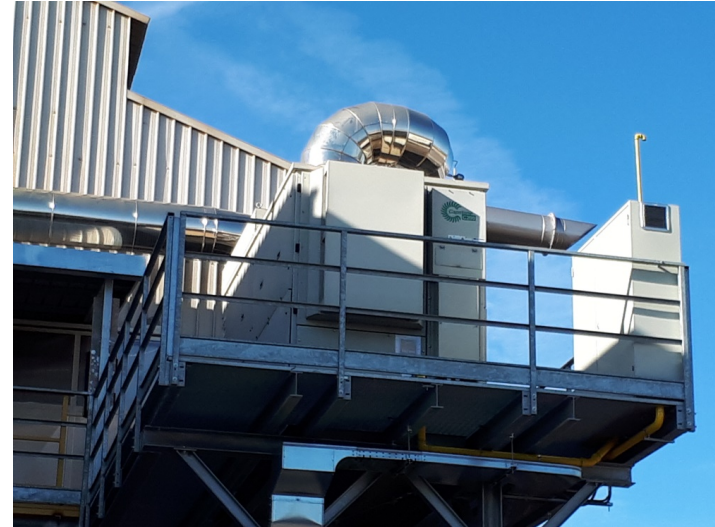
Commissioning: 2017

CHP system: n°2xC200 kWe
DM/GC Capstone turbine with direct
exhaust application for factory drying
process.

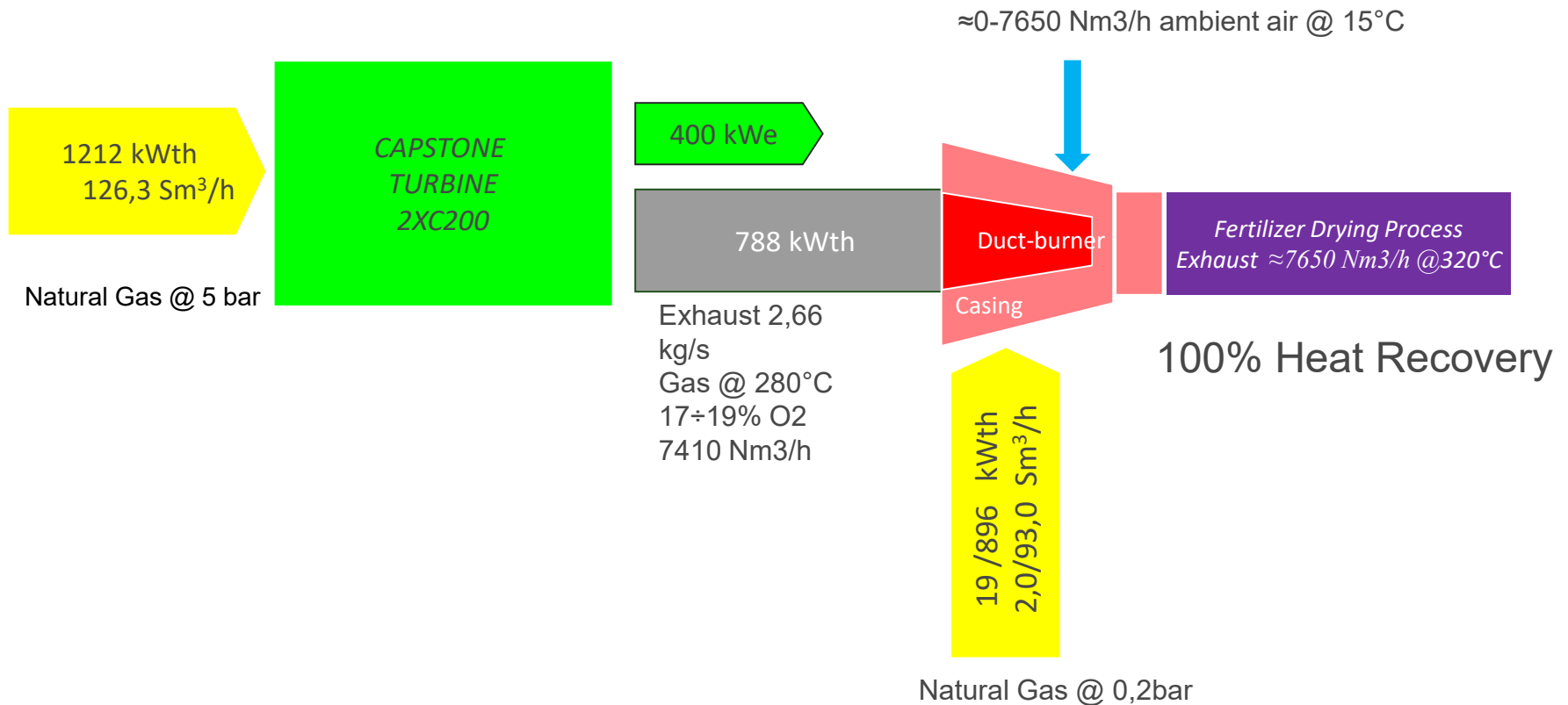
Electric Power:
400 kWe

Power Quality:
PILLER Rotary Uninterruptible Power
System (UPS) 1000 kWe – 30 sec

Thermal Power:
788 kWth of exhaust gases



Direct Drying Application



Savings



The business case provides annual savings of around **230.000 Euro** with approximately **7.500** operating hours scheduled.

To these savings must be added the lack of production losses caused by the previous micro interruptions and the blackouts, which are avoided thanks to the combination of the Capstone turbines with the Rotary UPS.

The plant allows for energy saving of around **4.200 MWh** per year, or around **360 TOEs** (Ton of Oil Equivalent) that lead to around **1.000 ton of CO2** not released into the atmosphere.

Biomarin USA

SPECIAL PHARMA PRODUCTS

Commissioning: 2017

CHP system: n°2xC1000 kWe
DM/GC Capstone turbines power
only configuration

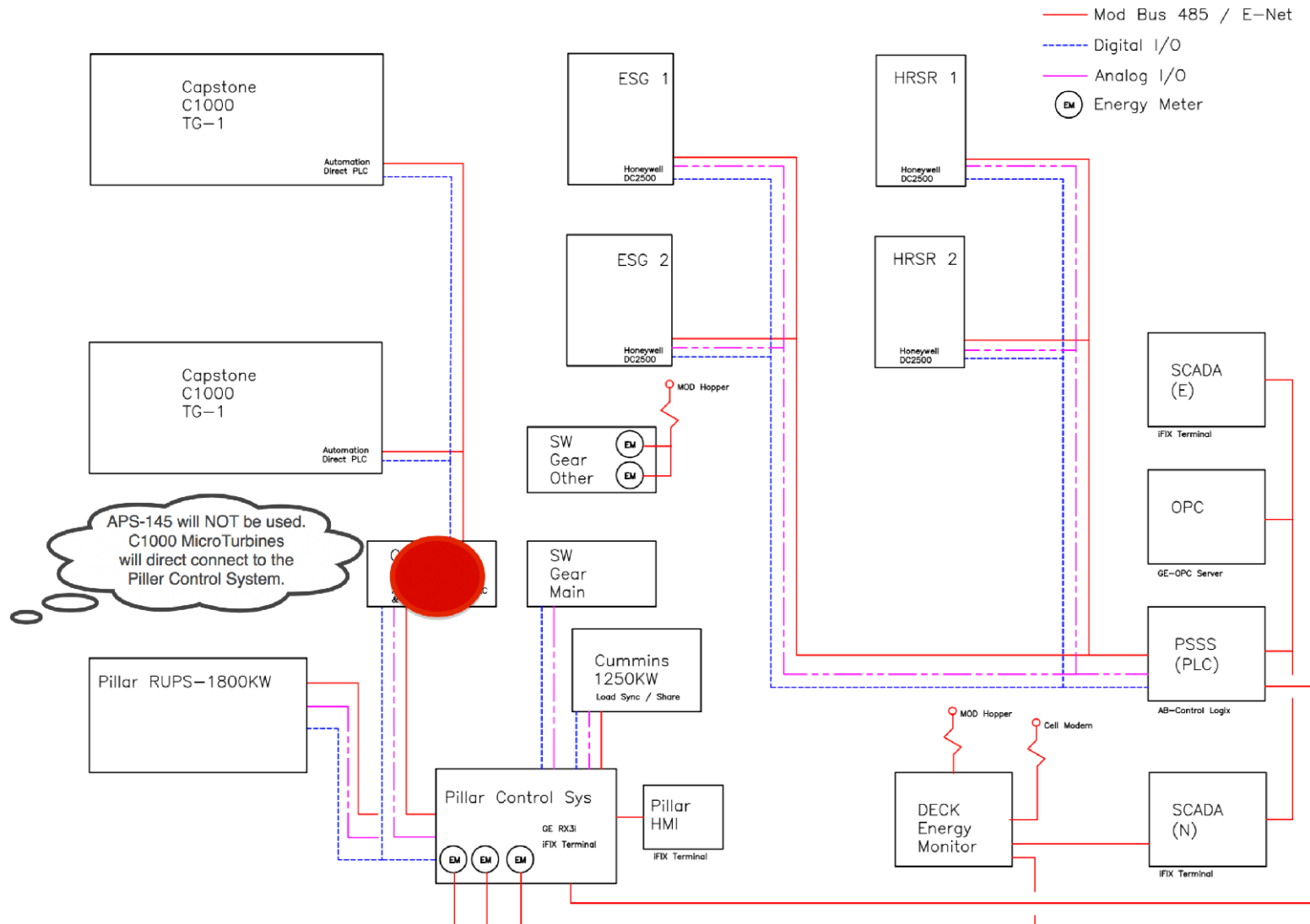
Electric Power:
2.000 kWe

Power Quality:
PILLER Rotary Uninterruptible Power
System (UPS) 1,800 kWe – 30 sec

Thermal Power:
Hot Water CHP – 2.300 KWth at
90°C



Biomarin USA



Goldwing Beijing



ELECTRONICS

Commissioning: 2017

CCHP system: n°1xC600 kWe
DM/GC Capstone turbine and Broad
lithium bromide absorption chiller

Electric Power:

600 kWe

Power Quality:

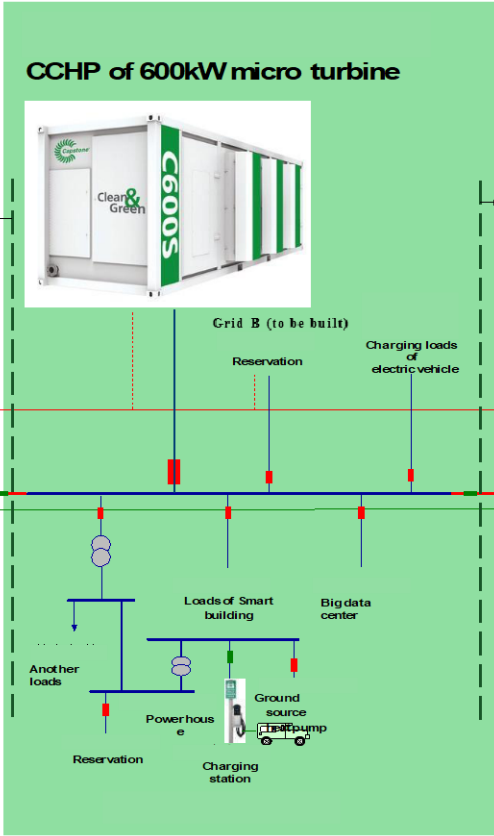
200 kW Supercapacitor

300 kW Batteries

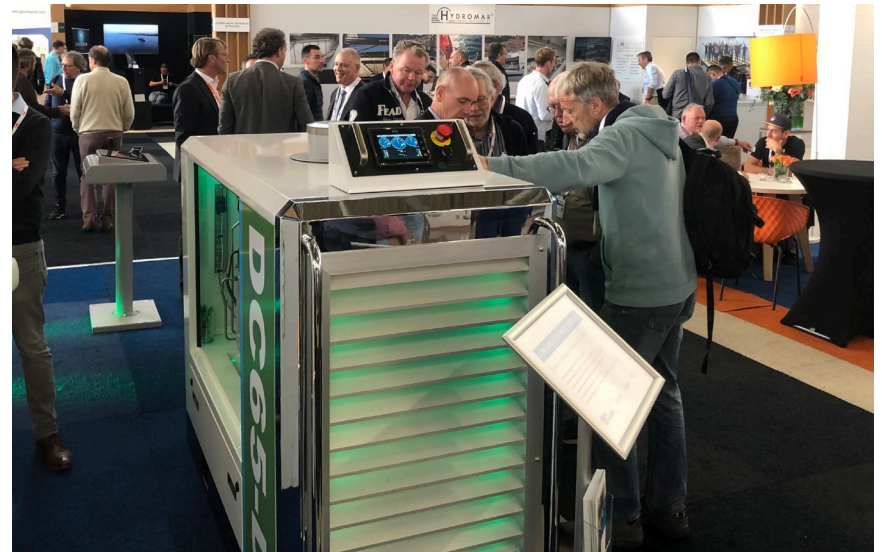
Thermal Power:

Hot Water CHP – 2.300 KWth at
90°C





Capstone DC Turbine





Thank you!

www.capstoneturbine.com

