

# Displacement Piles with B200XP-2

## PROJECT DESCRIPTION

- Extension of existing **biogas plant**, Vipiteno (Bolzano), ITALY
- Description: Displacement piles as foundation
- Schedule: September 2020

## PROJECT QUANTITIES AND GENERAL DATA

- Type of piles: Displacement Piles
- Quantity: n° 900 piles (3 lots of 300 piles each)
- Diameter: 550 mm
- Depth: 17,5 m
- Reinforcement: fully caged

## PRODUCTION DATA

- Average production: 12 piles/day (210 m/day)

## SOIL FEATURES

- 0 ÷ 6 m: Clay with boulders
- 6 ÷ 9 m: Compact alluvional gravel, highly abrasive
- 9 ÷ 16 m: Clay
- 16 ÷ 17,5 m: Compact gravel - Load bearing layer



## TOOLS AND ACCESSORIES

- Tool diameter: 550 mm
- Rods diameter: 450 mm - big diameter due to avoid lateral collapse of the pile while drilling
- Steel cages diameter: 380 mm

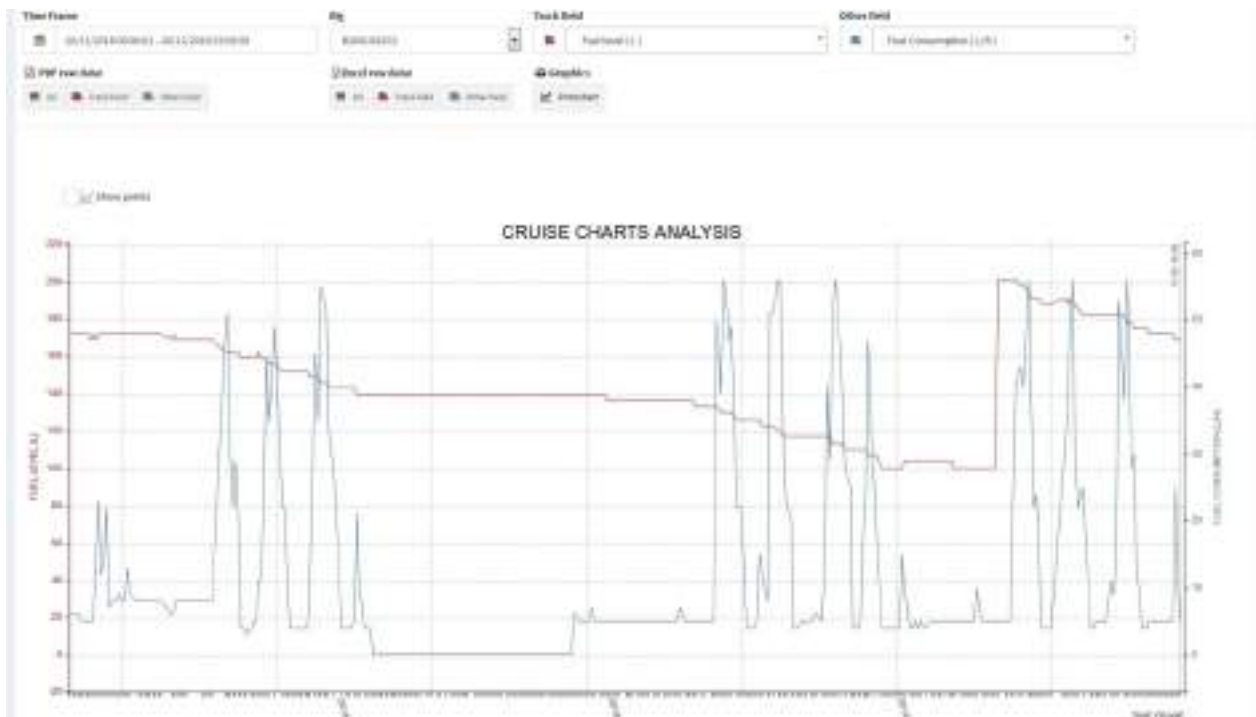
## EQUIPMENT

- Casagrande B200xp-2 equipped in CFA / Displacement Piles arrangement for:
  - 25,5 m maximum drilling depth with 6 m kelly extension
  - 825 kN / 280 kN– nominal extraction / crowd force
  - H22 rotary head – up to 210 kNm nominal torque
  - 242 kW rated power by L9 Cummins engine - Exhaust emission EU Stage V
  - **CDR** (Casagrande Data Recording) instrumentation for monitoring and recording of drilling data
  - Casagrande **FleetMaster** remote rig control and monitoring via Internet





FleetMaster  
example of day activity diagram



FleetMaster  
example of chart analysis



