



Bristol (Avonmouth)
Wessex Water
 Advanced digestion facility



Monsal Hot Water Heat Exchanger Module



Monsal Biogas Mixing and Transfer system

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Dedicated to Digestion

Certified Accreditation to: ISO 9001, ISO 14001, OHSAS 18001

Plant inputs 30,660 Tonnes dry solids/annum
 Primary sludge 70%
 Secondary sludge 30%

Advanced Digestion plant Monsal EH - High rate hydrolysis
 Heating technology - water - from CHP
 6 x 2,728m³ Mesophilic digesters (16,368m³ total)

Biogas and Bioenergy engineering Over 33,000m³/day or 425m³ biogas generated/tonne DS treated
 3 x 1.15 MWe CHP dedicated to biogas
 Siloxane removal
 CHP - Heat recovery

Key Benefits

- Sludge throughput increased to 84 Tonnes/day
- No additional digestion volume required (loading over 4Kg vS/m3.d)
- Cost of liming significantly reduced
- Renewable energy production optimised - 3MWe generated
- No supplementary fuel required
- No additional liquor treatment plant required for Monsal EH
- Wessex Water's largest sludge supercentre optimised

