

## Biogas Plant PRATO allo STELVIO



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|----------------------|--|
| Location             | Prato allo Stelvio, ITALY  |
| Construction Period: | 2001   |
| Input substrat:      | Manure, Straw, other Organic Waste                                       |
| Fermenter:           | 2 Concrete Tanks, 735 m <sup>3</sup> each                                |
| Co-Generator         | Integration in Central Energy System for Electricity and Heat production |
| Special Features:    | Biogas Plant of 53 Farmers   |
| Costs:               | about € 900.000,-  |

At the end of the nineties in South Tyrole more restrictive environmental laws became valid. The farms located into the village had to create additional storage capacities for the manure of their animals. This was done in a cooperative that decided to use this central collection to build a biogas plant. Finally, more than 50 farmers participated. As all the area is famous for low temperatures in winter time and to minimise heat losses, it was decided to build the two digester tanks as completely closed and insulated tanks including tank roofs. The gas holder was mounted on top of the storage tank behind the biogas plant digesters. Biogas is delivered to centrally located gas engines inside the village by pipeline. In addition to two engines operated with fossils fuel a third one is now in operation with biogas and supplies its hot water into the local hot water grid.