

# Monthly report plant1

## Production and feed-in values

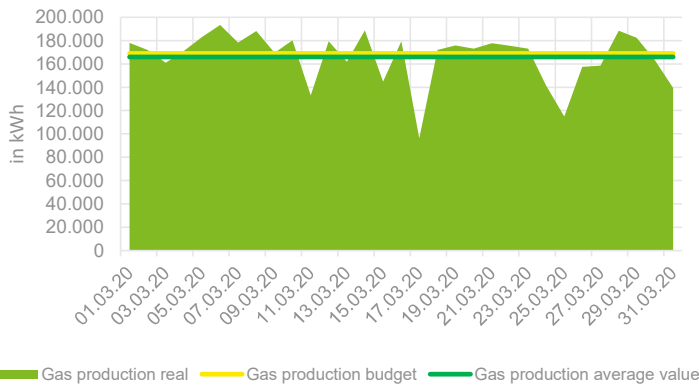
Biogas plant: plant1 Plant manager: manager1

Biogas plant operator: operator1

Reporting period: March-20 01 March 2020 – 31 March 2020

### Gas production

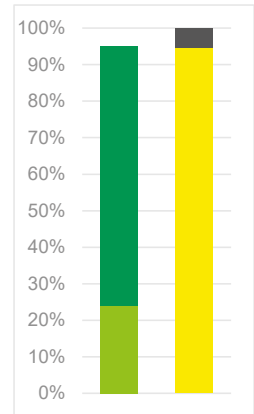
Performance Biogas upgrading plant [700 Nm<sup>3</sup>/h]



Feed-in volume per year

Annual projection

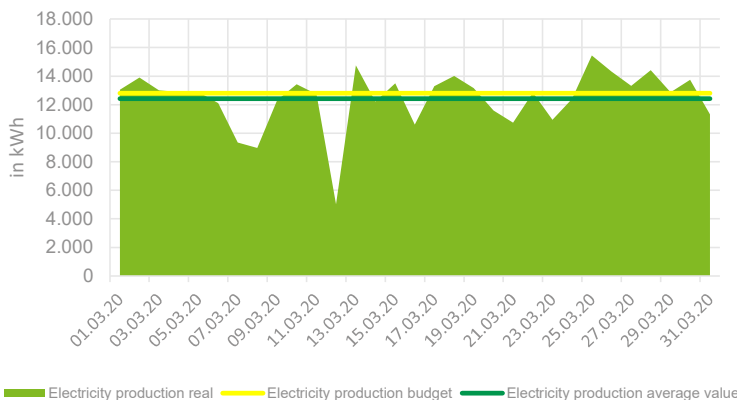
- Maximum\*\*\*\* 65.300.256 kWh
- Budget\*\*\* 61.851.767 kWh
- Projection\*\* 62.089.442 kWh
- Year to date\* 15.616.120 kWh



	March-20	Budget spec. period	February-20
Gas generation	5.151.751 kWh	5.238.811 kWh	5.075.888 kWh
Average production / day	166.186 kWh/d	168.994 kWh/d	175.031 kWh/d
Target achievement gas generation according to WKB	98%	100%	104%
Target achievement gas generation (of installed capacity)	93%	95%	98%

### Generation of electricity

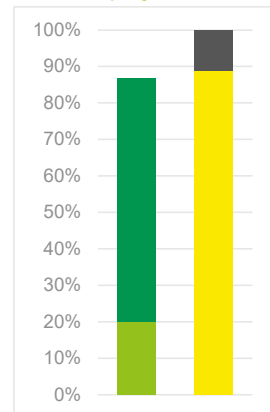
Performance CHP plant [600 kWel.]



Feed-in volume per year

Annual projection

- Maximum\*\*\*\* 5.270.400 kWh
- Budget\*\*\* 4.683.096 kWh
- Projection\*\* 4.568.264 kWh
- Year to date\* 1.049.544 kWh



	March-20	Budget spec. Period	February-20
Generation of electricity	385.109 kWh	396.656 kWh	310.898 kWh
Average production / day	12.423 kWh/d	12.795 kWh/d	10.721 kWh/d
Target achievement electricity generation (according to WKB)	97%	100%	84%
Target achievement electricity generation (of installed capacity)	86%	89%	74%

Legend

\* Sum of cumulated annual production

\*\* Annual projection based on current plant performance

\*\*\* Annual production as per business case

\*\*\*\* Installed capacity multiplied with 8760h (number of hours per year)

## Power Consumption

	March-20	Budget spec. period	February-20
Consumption of electricity biogas plant	83.420 kWh	107.927 kWh	79.420 kWh
Consumption of electricity biogas upgrading plant	222.489 kWh	209.185 kWh	214.382 kWh
<b>Consumption of electricity in total</b>	<b>305.909 kWh</b>	<b>317.111 kWh</b>	<b>293.802 kWh</b>
Average consumption/day	9.868 kWh/d	10.229 kWh/d	10.131 kWh/d
Percentage of own electricity consumption	4,98%	4,99%	4,87%
<b>Operating hours flare</b>	<b>7 h</b>		<b>0 h</b>

## Feedstock Consumption

Substrate - input	Dry matter target*	Budget spec. period**	Feedings***
Maize (34,1% dry matter)	2.794 t	3.062 t	2.701 t
Whole-plant silage (27,5% dry matter)	718 t	471 t	863 t
Sugar beet leaves and fractions (0% dry matter)	0 t	678 t	0 t
Sugar beet (24,5% dry matter)	1.412 t	456 t	1.326 t
Chicken manure/chicken dung (53% dry matter)	529 t	551 t	499 t
<b>Sum</b>	<b>5.453 t</b>	<b>5.217 t</b>	<b>5.388 t</b>

\*Dry matter at the rate of dry matter basis

\*\*Remark: [96% UGP; 89% CHP]

\*\*\*Substrate consumption current Month