

# Emissionsbericht

Werk Linz 2018



Lumpi-Berndorf Draht- und Seilwerk GmbH

Mit diesem Bericht wir den Anforderungen des Umweltinformationsgesetzes (UIG) entsprochen. Es werden alle Ergebnisse der Emissionsmessungen hiermit veröffentlicht.

## 1 Heizungsanlage

### 1.1 Brenner 1, ELCO-Klößner EK04.48G-ZV

|                   |                         |
|-------------------|-------------------------|
|                   | Großlast                |
| NOx:              | 114,6 mg/m <sup>3</sup> |
| Rußziffer:        | 0                       |
| CO:               | 1 mg/m <sup>3</sup>     |
| O <sub>2</sub> :  | 4,9%                    |
| CO <sub>2</sub> : | 9,05%                   |
| Abgtemperatur:    | 219,8°C                 |
| Raumtemperatur:   | 23,9°C                  |
| Feuerungst. WG:   | 90,0                    |
| Gasruhedruck:     | 36mbar                  |
| Gasfließdruck:    | 19mbar                  |

Ergebnis: Die Emissionen unterschreiten die Grenzwerte der Feuerungsanlagenverordnung FAV97.

### 1.2 Brenner 2, ELCO-Klößner EK3.70G-ZVA

|                   |           |          |                   |
|-------------------|-----------|----------|-------------------|
|                   | Kleinlast | Großlast |                   |
| NOx:              | 101,5     | 106,9    | mg/m <sup>3</sup> |
| Rußziffer:        | 0         | 0        |                   |
| CO:               | 72        | 53       | mg/m <sup>3</sup> |
| O <sub>2</sub> :  | 4,7       | 4,8      | %                 |
| CO <sub>2</sub> : | 9,16      | 9,10     | %                 |
| Abgtemperatur:    | 156,9     | 174,7    | °C                |
| Raumtemperatur:   | 24,1      | 24,9     | °C                |
| Feuerungst. WG:   | 93,3      | 92,5     |                   |
| Gasmenge:         | 25        | 40       | m <sup>3</sup> /h |
| Gasruhedruck:     | 36mbar    |          |                   |
| Gasfließdruck:    | 19mbar    |          |                   |

Ergebnis: Die Emissionen unterschreiten die Grenzwerte der Feuerungsanlagenverordnung FAV97.

## 2 Abwasser und Kühlwasserdaten

### 2.1 Abwasseranalyse gem. Zustimmungserklärung 203L-02-Mü der Linz AG

Datum: 04.05.2017

Trübung (sensorisch): keine

Färbung (sensorisch): farblos

pH-Wert: 8,1 (min. 6,5 – max. 9,5)

Ergebnis: Zum Zeitpunkt der Probenüberbringung wurden die im Analysebericht zitierten Grenzwerte der Zustimmungserklärung (ZE) eingehalten.

### 2.2 Aufzeichnungen bez. Zustimmungserklärung 203L-02-Mü/Pkt. C.1.

| DATUM               | Durchfluss<br>Brunnenwasser<br>max. 699/1049m <sup>3</sup> /Tag | Durchfluss<br>Abschlammwasser<br>max. 10m <sup>3</sup> /Tag | Max. Durchfluss<br>Abschlammwasser<br>max. 16m <sup>3</sup> /h | MW. Temperatur<br>Brunnenwasser<br>17°C sekundär | Max. Temperatur<br>Abschlammwasser<br>35°C | Maximale<br>Leitfähigkeit<br>15 mS/cm |
|---------------------|---|---|--|--|--|---------------------------------------|
| 2018/01/10 23:59:57 | 133   | 0   | 0  | 16   | 19   | 0,772                                 |
| 2018/01/11 23:59:57 | 193   | 0   | 0  | 16   | 19   | 0,780                                 |
| 2018/01/12 23:59:57 | 142   | 0   | 0  | 15   | 18   | 0,755                                 |
| 2018/01/13 23:59:57 | 0   | 0   | 0  | 0  | 16   | 0,767                                 |
| 2018/01/14 23:59:57 | 0   | 0   | 0  | 0  | 14   | 0,819                                 |
| 2018/01/15 23:59:57 | 142   | 0   | 0  | 14   | 15   | 0,824                                 |
| 2018/01/16 23:59:57 | 134   | 0   | 0  | 15   | 15   | 0,765                                 |
| 2018/01/17 23:59:57 | 179   | 0   | 0  | 15   | 16   | 0,765                                 |
| 2018/01/18 23:59:57 | 169   | 0   | 0  | 14   | 16   | 0,753                                 |
| 2018/01/19 23:59:57 | 145   | 0   | 0  | 15   | 17   | 0,792                                 |
| 2018/01/20 23:59:57 | 0   | 0   | 0  | 0  | 16   | 0,703                                 |
| 2018/01/21 23:59:57 | 2   | 0   | 0  | 0  | 13   | 0,676                                 |
| 2018/01/22 23:59:57 | 167   | 0   | 0  | 15   | 15   | 0,765                                 |
| 2018/01/23 23:59:57 | 180   | 0   | 0  | 15   | 16   | 0,735                                 |
| 2018/01/24 23:59:57 | 185   | 0   | 0  | 15   | 17   | 0,753                                 |
| 2018/01/25 23:59:57 | 185   | 0   | 0  | 16   | 18   | 0,775                                 |
| 2018/01/26 23:59:57 | 152   | 0   | 0  | 15   | 17   | 0,758                                 |
| 2018/01/27 23:59:57 | 7   | 0   | 0  | 0  | 15   | 0,684                                 |
| 2018/01/28 23:59:57 | 6   | 0   | 0  | 0  | 13   | 0,730                                 |
| 2018/01/29 23:59:57 | 168   | 0   | 0  | 15   | 18   | 0,782                                 |
| 2018/01/30 23:59:57 | 179   | 0   | 0  | 15   | 18   | 0,799                                 |
| 2018/01/31 23:59:57 | 176   | 0   | 0  | 15   | 18   | 0,765                                 |
| 2018/01/31 23:59:57 | 176   | 0   | 0  | 15   | 18   | 0,765                                 |
| 2018/02/13 23:59:57 | 132   | 0   | 0  | 15   | 16   | 0,755                                 |
| 2018/02/14 23:59:57 | 103   | 0   | 0  | 16   | 17   | 0,856                                 |
| 2018/02/15 23:59:57 | 188   | 0   | 0  | 16   | 18   | 0,844                                 |
| 2018/02/16 23:59:57 | 155   | 0   | 0  | 15   | 18   | 0,841                                 |
| 2018/02/17 23:59:57 | 0   | 0   | 0  | 0  | 16   | 0,691                                 |
| 2018/02/18 23:59:57 | 0   | 0   | 0  | 0  | 14   | 0,664                                 |
| 2018/02/19 23:59:57 | 174   | 0   | 0  | 15   | 17   | 0,804                                 |
| 2018/02/20 23:59:57 | 177   | 0   | 0  | 15   | 18   | 0,809                                 |
| 2018/02/21 23:59:57 | 189   | 0   | 0  | 16   | 18   | 0,821                                 |
| 2018/02/22 23:59:57 | 184   | 0   | 0  | 15   | 17   | 0,760                                 |
| 2018/02/23 23:59:57 | 154   | 0   | 0  | 15   | 17   | 0,789                                 |
| 2018/02/24 23:59:57 | 0   | 0   | 0  | 0  | 15   | 0,748                                 |
| 2018/02/25 23:59:57 | 0   | 0   | 0  | 0  | 13   | 0,794                                 |
| 2018/02/26 23:59:57 | 168   | 0   | 0  | 14   | 14   | 0,794                                 |
| 2018/02/27 23:59:57 | 153   | 0   | 0  | 14   | 14   | 0,748                                 |
| 2018/02/28 23:59:57 | 157   | 0   | 0  | 14   | 15   | 0,765                                 |
| 2018/03/01 23:59:57 | 175   | 0   | 0  | 14   | 16   | 0,767                                 |
| 2018/03/02 23:59:57 | 157   | 0   | 0  | 15   | 15   | 0,819                                 |
| 2018/03/03 23:59:57 | 6   | 0   | 0  | 0  | 14   | 0,674                                 |
| 2018/03/04 23:59:57 | 6   | 0   | 0  | 0  | 12   | 0,635                                 |
| 2018/03/05 23:59:57 | 164   | 0   | 0  | 14   | 14   | 0,753                                 |
| 2018/03/06 23:59:57 | 181   | 0   | 0  | 14   | 15   | 0,794                                 |
| 2018/03/07 23:59:57 | 179   | 0   | 0  | 15   | 16   | 0,777                                 |
| 2018/03/08 23:59:57 | 152   | 0   | 0  | 14   | 18   | 0,789                                 |
| 2018/03/09 23:59:57 | 152   | 0   | 0  | 15   | 18   | 0,861                                 |
| 2018/03/10 23:59:57 | 0   | 0   | 0  | 0  | 17   | 0,853                                 |
| 2018/03/11 23:59:57 | 1   | 0   | 0  | 0  | 16   | 0,954                                 |
| 2018/03/12 23:59:57 | 149   | 2   | 14   | 16   | 19   | 1,031                                 |
| 2018/03/13 23:59:57 | 207   | 0   | 0  | 16   | 21   | 0,819                                 |
| 2018/03/14 23:59:57 | 201   | 0   | 0  | 15   | 21   | 0,817                                 |
| 2018/03/15 23:59:57 | 198   | 0   | 0  | 15   | 20   | 0,812                                 |
| 2018/03/16 23:59:57 | 166   | 1   | 14   | 16   | 21   | 0,829                                 |

|                     |     |   |    |    |    |       |
|---------------------|-----|---|----|----|----|-------|
| 2018/03/17 23:59:57 | 10  | 0 | 0  | 0  | 19 | 0,698 |
| 2018/03/18 23:59:57 | 9   | 0 | 0  | 0  | 14 | 0,662 |
| 2018/03/19 23:59:57 | 195 | 0 | 0  | 15 | 16 | 1,705 |
| 2018/03/20 23:59:57 | 196 | 0 | 0  | 15 | 18 | 0,782 |
| 2018/03/21 23:59:57 | 197 | 0 | 0  | 15 | 19 | 0,787 |
| 2018/03/22 23:59:57 | 227 | 8 | 14 | 14 | 20 | 0,912 |
| 2018/03/23 23:59:57 | 233 | 4 | 7  | 15 | 20 | 0,895 |
| 2018/03/24 23:59:57 | 4   | 0 | 0  | 0  | 18 | 0,735 |
| 2018/03/25 23:59:57 | 5   | 0 | 0  | 0  | 17 | 0,794 |
| 2018/03/26 23:59:57 | 204 | 0 | 0  | 15 | 20 | 0,804 |
| 2018/03/27 23:59:57 | 203 | 0 | 0  | 16 | 20 | 0,807 |
| 2018/03/28 23:59:57 | 203 | 0 | 0  | 17 | 20 | 0,844 |
| 2018/03/29 23:59:57 | 189 | 9 | 14 | 16 | 21 | 1,107 |
| 2018/03/30 23:59:57 | 131 | 4 | 14 | 15 | 20 | 1,099 |
| 2018/03/31 23:59:57 | 16  | 0 | 0  | 0  | 19 | 0,662 |
| 2018/04/01 23:59:57 | 17  | 0 | 0  | 0  | 16 | 1,705 |
| 2018/04/02 23:59:57 | 17  | 0 | 0  | 0  | 16 | 0,637 |
| 2018/04/03 23:59:57 | 177 | 0 | 0  | 14 | 18 | 0,721 |
| 2018/04/04 23:59:57 | 197 | 0 | 0  | 14 | 19 | 0,738 |
| 2018/04/05 23:59:57 | 199 | 0 | 0  | 14 | 19 | 0,777 |
| 2018/04/06 23:59:57 | 153 | 0 | 0  | 14 | 19 | 0,738 |
| 2018/04/07 23:59:57 | 5   | 0 | 0  | 0  | 18 | 0,718 |
| 2018/04/08 23:59:57 | 5   | 0 | 0  | 0  | 18 | 0,730 |
| 2018/04/09 23:59:57 | 120 | 2 | 14 | 14 | 20 | 0,743 |
| 2018/04/10 23:59:57 | 205 | 0 | 0  | 15 | 22 | 0,762 |
| 2018/04/11 23:59:57 | 188 | 0 | 0  | 15 | 22 | 0,802 |
| 2018/04/12 23:59:57 | 202 | 0 | 0  | 15 | 22 | 0,794 |
| 2018/04/13 23:59:57 | 161 | 0 | 0  | 14 | 22 | 0,794 |
| 2018/04/14 23:59:57 | 14  | 0 | 0  | 0  | 21 | 0,676 |
| 2018/04/15 23:59:57 | 13  | 0 | 0  | 0  | 19 | 0,662 |
| 2018/04/16 23:59:57 | 193 | 1 | 14 | 15 | 22 | 0,743 |
| 2018/04/17 23:59:57 | 191 | 0 | 0  | 15 | 23 | 0,748 |
| 2018/04/18 23:59:57 | 202 | 0 | 0  | 16 | 24 | 0,770 |
| 2018/04/19 23:59:57 | 203 | 0 | 0  | 16 | 24 | 1,952 |
| 2018/04/20 23:59:57 | 165 | 0 | 0  | 16 | 25 | 0,787 |
| 2018/04/21 23:59:57 | 6   | 0 | 0  | 0  | 22 | 0,770 |
| 2018/04/22 23:59:57 | 6   | 0 | 0  | 0  | 21 | 0,809 |
| 2018/04/23 23:59:57 | 197 | 0 | 0  | 16 | 24 | 0,819 |
| 2018/04/24 23:59:57 | 199 | 1 | 13 | 16 | 23 | 0,804 |
| 2018/04/25 23:59:57 | 200 | 2 | 14 | 16 | 24 | 0,824 |
| 2018/04/26 23:59:57 | 197 | 0 | 0  | 16 | 22 | 0,802 |
| 2018/04/27 23:59:57 | 172 | 0 | 0  | 16 | 22 | 0,785 |
| 2018/04/28 23:59:57 | 42  | 0 | 0  | 15 | 21 | 0,711 |
| 2018/04/29 23:59:57 | 11  | 0 | 0  | 0  | 21 | 0,684 |
| 2018/04/30 23:59:57 | 183 | 1 | 14 | 14 | 21 | 0,775 |
| 2018/05/01 23:59:57 | 9   | 0 | 0  | 0  | 20 | 0,758 |
| 2018/05/02 23:59:57 | 195 | 0 | 0  | 14 | 20 | 0,787 |
| 2018/05/03 23:59:57 | 199 | 0 | 0  | 15 | 23 | 0,858 |
| 2018/05/04 23:59:57 | 203 | 0 | 0  | 16 | 22 | 0,878 |
| 2018/05/05 23:59:57 | 103 | 0 | 0  | 14 | 21 | 0,853 |
| 2018/05/06 23:59:57 | 6   | 0 | 0  | 0  | 20 | 0,804 |
| 2018/05/07 23:59:57 | 202 | 0 | 0  | 15 | 23 | 0,873 |
| 2018/05/08 23:59:57 | 183 | 0 | 0  | 14 | 21 | 0,839 |
| 2018/05/09 23:59:57 | 200 | 0 | 0  | 14 | 21 | 0,819 |
| 2018/05/10 23:59:57 | 6   | 0 | 0  | 0  | 20 | 0,740 |
| 2018/05/11 23:59:57 | 202 | 0 | 0  | 14 | 21 | 0,898 |
| 2018/05/12 23:59:57 | 87  | 0 | 0  | 14 | 22 | 0,824 |
| 2018/05/13 23:59:57 | 19  | 0 | 0  | 0  | 22 | 0,878 |
| 2018/05/14 23:59:57 | 180 | 0 | 0  | 14 | 21 | 0,920 |
| 2018/05/15 23:59:57 | 199 | 1 | 13 | 15 | 21 | 0,863 |
| 2018/05/16 23:59:57 | 200 | 0 | 0  | 14 | 20 | 0,812 |
| 2018/05/17 23:59:57 | 199 | 0 | 0  | 15 | 20 | 0,839 |
| 2018/05/18 23:59:57 | 160 | 0 | 0  | 15 | 20 | 0,824 |
| 2018/05/19 23:59:57 | 7   | 0 | 0  | 0  | 19 | 0,831 |
| 2018/05/20 23:59:57 | 7   | 0 | 0  | 0  | 20 | 0,949 |
| 2018/05/21 23:59:57 | 7   | 0 | 0  | 0  | 20 | 1,050 |
| 2018/05/22 23:59:57 | 189 | 2 | 13 | 14 | 21 | 1,065 |
| 2018/05/23 23:59:57 | 189 | 0 | 0  | 14 | 22 | 0,812 |
| 2018/05/24 23:59:57 | 135 | 2 | 13 | 14 | 21 | 0,853 |
| 2018/05/25 23:59:57 | 168 | 0 | 0  | 14 | 20 | 0,789 |
| 2018/05/26 23:59:57 | 11  | 0 | 0  | 0  | 21 | 0,792 |
| 2018/05/27 23:59:57 | 11  | 0 | 0  | 0  | 22 | 0,868 |
| 2018/05/28 23:59:57 | 184 | 2 | 13 | 14 | 24 | 0,893 |
| 2018/05/29 23:59:57 | 199 | 0 | 0  | 14 | 24 | 0,782 |
| 2018/05/30 23:59:57 | 190 | 0 | 0  | 15 | 24 | 0,782 |
| 2018/05/31 23:59:57 | 12  | 0 | 0  | 0  | 24 | 0,819 |

|                     |     |   |    |    |    |       |
|---------------------|-----|---|----|----|----|-------|
| 2018/06/01 23:59:57 | 163 | 2 | 13 | 14 | 23 | 0,908 |
| 2018/06/02 23:59:57 | 5   | 0 | 0  | 0  | 23 | 0,782 |
| 2018/06/03 23:59:57 | 5   | 0 | 0  | 0  | 23 | 0,802 |
| 2018/06/04 23:59:57 | 199 | 2 | 13 | 14 | 25 | 0,883 |
| 2018/06/05 23:59:57 | 201 | 1 | 13 | 15 | 25 | 0,856 |
| 2018/06/06 23:59:57 | 203 | 0 | 0  | 14 | 25 | 0,831 |
| 2018/06/07 23:59:57 | 197 | 0 | 0  | 14 | 23 | 0,844 |
| 2018/06/08 23:59:57 | 164 | 0 | 0  | 14 | 25 | 0,836 |
| 2018/06/09 23:59:57 | 11  | 0 | 0  | 0  | 24 | 0,873 |
| 2018/06/10 23:59:57 | 11  | 0 | 0  | 0  | 23 | 0,932 |
| 2018/06/11 23:59:57 | 191 | 2 | 15 | 14 | 25 | 0,979 |
| 2018/06/12 23:59:57 | 201 | 2 | 13 | 15 | 24 | 0,888 |
| 2018/06/13 23:59:57 | 203 | 0 | 0  | 14 | 23 | 0,844 |
| 2018/06/14 23:59:57 | 202 | 0 | 0  | 15 | 21 | 0,841 |
| 2018/06/15 23:59:57 | 163 | 0 | 0  | 14 | 21 | 0,903 |
| 2018/06/16 23:59:57 | 8   | 0 | 0  | 0  | 21 | 0,871 |
| 2018/06/17 23:59:57 | 8   | 0 | 0  | 0  | 22 | 0,944 |
| 2018/06/18 23:59:57 | 199 | 0 | 0  | 14 | 22 | 0,967 |
| 2018/06/19 23:59:57 | 206 | 0 | 0  | 14 | 23 | 0,949 |
| 2018/06/20 23:59:57 | 200 | 1 | 12 | 14 | 25 | 1,008 |
| 2018/06/21 23:59:57 | 201 | 0 | 0  | 15 | 26 | 0,917 |
| 2018/06/22 23:59:57 | 170 | 0 | 0  | 15 | 25 | 0,873 |
| 2018/06/23 23:59:57 | 12  | 0 | 0  | 0  | 20 | 0,829 |
| 2018/06/24 23:59:57 | 2   | 0 | 0  | 0  | 19 | 0,967 |
| 2018/06/25 23:59:57 | 197 | 0 | 0  | 15 | 20 | 0,981 |
| 2018/06/26 23:59:57 | 200 | 0 | 0  | 15 | 22 | 0,858 |
| 2018/06/27 23:59:57 | 186 | 0 | 0  | 14 | 23 | 0,873 |
| 2018/06/28 23:59:57 | 203 | 0 | 0  | 15 | 21 | 0,883 |
| 2018/06/29 23:59:57 | 158 | 0 | 0  | 14 | 20 | 0,883 |
| 2018/06/30 23:59:57 | 5   | 0 | 0  | 0  | 21 | 0,959 |
| 2018/07/01 23:59:57 | 6   | 0 | 0  | 0  | 21 | 1,038 |
| 2018/07/02 23:59:57 | 132 | 2 | 12 | 14 | 22 | 1,038 |
| 2018/07/03 23:59:57 | 143 | 0 | 0  | 14 | 24 | 0,787 |
| 2018/07/04 23:59:57 | 165 | 1 | 13 | 14 | 24 | 0,802 |
| 2018/07/05 23:59:57 | 153 | 0 | 0  | 14 | 24 | 0,868 |
| 2018/07/06 23:59:57 | 140 | 0 | 0  | 14 | 23 | 0,895 |
| 2018/07/07 23:59:57 | 16  | 0 | 0  | 0  | 22 | 0,807 |
| 2018/07/08 23:59:57 | 17  | 0 | 0  | 0  | 21 | 0,890 |
| 2018/07/09 23:59:57 | 199 | 2 | 12 | 15 | 24 | 1,001 |
| 2018/07/10 23:59:57 | 199 | 0 | 0  | 15 | 24 | 0,858 |
| 2018/07/11 23:59:57 | 186 | 0 | 0  | 15 | 23 | 0,829 |
| 2018/07/12 23:59:57 | 192 | 0 | 0  | 15 | 22 | 0,772 |
| 2018/07/13 23:59:57 | 157 | 0 | 0  | 14 | 22 | 0,812 |
| 2018/07/14 23:59:57 | 12  | 0 | 0  | 0  | 22 | 0,878 |
| 2018/07/15 23:59:57 | 12  | 0 | 0  | 0  | 22 | 1,006 |
| 2018/07/16 23:59:57 | 191 | 2 | 12 | 15 | 23 | 1,048 |
| 2018/07/17 23:59:57 | 196 | 1 | 13 | 15 | 22 | 0,824 |
| 2018/07/18 23:59:57 | 198 | 0 | 0  | 14 | 23 | 0,871 |
| 2018/07/19 23:59:57 | 200 | 0 | 0  | 15 | 24 | 0,893 |
| 2018/07/20 23:59:57 | 160 | 2 | 12 | 15 | 25 | 0,927 |
| 2018/07/21 23:59:57 | 0   | 0 | 0  | 0  | 24 | 0,981 |
| 2018/07/22 23:59:57 | 0   | 0 | 0  | 0  | 21 | 1,102 |
| 2018/07/23 23:59:57 | 194 | 4 | 13 | 14 | 22 | 1,134 |
| 2018/07/24 23:59:57 | 199 | 0 | 0  | 15 | 23 | 0,785 |
| 2018/07/25 23:59:57 | 182 | 0 | 0  | 14 | 24 | 0,802 |
| 2018/07/26 23:59:57 | 151 | 0 | 0  | 14 | 23 | 0,898 |
| 2018/07/27 23:59:57 | 53  | 0 | 0  | 14 | 24 | 0,844 |
| 2018/07/28 23:59:57 | 0   | 0 | 0  | 0  | 25 | 0,883 |
| 2018/07/29 23:59:57 | 0   | 0 | 0  | 0  | 25 | 0,986 |
| 2018/07/30 23:59:57 | 0   | 0 | 0  | 0  | 26 | 1,050 |
| 2018/07/31 23:59:57 | 0   | 0 | 0  | 0  | 26 | 1,117 |
| 2018/08/01 23:59:57 | 0   | 0 | 0  | 0  | 26 | 1,185 |
| 2018/08/02 23:59:57 | 0   | 0 | 0  | 0  | 26 | 1,183 |
| 2018/08/03 23:59:57 | 0   | 0 | 0  | 0  | 26 | 1,178 |
| 2018/08/04 23:59:57 | 0   | 0 | 0  | 0  | 26 | 1,161 |
| 2018/08/05 23:59:57 | 0   | 0 | 0  | 0  | 26 | 1,134 |
| 2018/08/06 23:59:57 | 15  | 1 | 12 | 17 | 25 | 1,454 |
| 2018/08/07 23:59:57 | 0   | 0 | 0  | 0  | 25 | 0,814 |
| 2018/08/08 23:59:57 | 0   | 0 | 0  | 0  | 25 | 0,819 |
| 2018/08/09 23:59:57 | 0   | 0 | 0  | 0  | 26 | 0,817 |
| 2018/08/10 23:59:57 | 1   | 0 | 0  | 0  | 25 | 0,780 |
| 2018/08/11 23:59:57 | 3   | 0 | 0  | 0  | 22 | 0,743 |
| 2018/08/12 23:59:57 | 4   | 0 | 0  | 0  | 23 | 0,750 |
| 2018/08/13 23:59:57 | 194 | 3 | 13 | 15 | 24 | 0,974 |
| 2018/08/14 23:59:57 | 205 | 0 | 0  | 15 | 24 | 0,844 |
| 2018/08/15 23:59:57 | 10  | 0 | 0  | 0  | 23 | 0,748 |

|                     |     |   |    |    |    |       |
|---------------------|-----|---|----|----|----|-------|
| 2018/08/16 23:59:57 | 197 | 0 | 0  | 16 | 25 | 0.804 |
| 2018/08/17 23:59:57 | 166 | 0 | 0  | 16 | 26 | 0.866 |
| 2018/08/18 23:59:57 | 7   | 0 | 0  | 0  | 24 | 0.908 |
| 2018/08/19 23:59:57 | 7   | 0 | 0  | 0  | 24 | 1.006 |
| 2018/08/20 23:59:57 | 202 | 2 | 12 | 15 | 26 | 1.021 |
| 2018/08/21 23:59:57 | 203 | 1 | 13 | 16 | 28 | 0.873 |
| 2018/08/22 23:59:57 | 203 | 0 | 0  | 17 | 29 | 0.876 |
| 2018/08/23 23:59:57 | 198 | 0 | 0  | 15 | 27 | 0.863 |
| 2018/08/24 23:59:57 | 152 | 0 | 0  | 15 | 26 | 0.878 |
| 2018/08/25 23:59:57 | 9   | 0 | 0  | 0  | 23 | 0.839 |
| 2018/08/25 23:59:57 | 0   | 0 | 0  | 0  | 19 | 0.839 |
| 2018/08/26 23:59:57 | 8   | 0 | 0  | 0  | 19 | 0.912 |
| 2018/08/27 23:59:57 | 193 | 1 | 12 | 15 | 23 | 0.942 |
| 2018/08/28 23:59:57 | 196 | 1 | 13 | 16 | 25 | 0.853 |
| 2018/08/29 23:59:57 | 192 | 0 | 0  | 16 | 25 | 0.826 |
| 2018/08/30 23:59:57 | 196 | 0 | 0  | 16 | 24 | 0.853 |
| 2018/08/31 23:59:57 | 163 | 0 | 0  | 16 | 23 | 0.878 |
| 2018/09/01 23:59:57 | 10  | 0 | 0  | 0  | 20 | 0.755 |
| 2018/09/02 23:59:57 | 10  | 0 | 0  | 0  | 17 | 0.762 |
| 2018/09/03 23:59:57 | 199 | 0 | 0  | 15 | 20 | 0.873 |
| 2018/09/04 23:59:57 | 195 | 0 | 0  | 15 | 19 | 0.834 |
| 2018/09/05 23:59:57 | 195 | 0 | 0  | 15 | 21 | 0.893 |
| 2018/09/06 23:59:57 | 194 | 1 | 13 | 16 | 21 | 0.930 |
| 2018/09/07 23:59:57 | 165 | 2 | 13 | 16 | 21 | 0.858 |
| 2018/09/08 23:59:57 | 11  | 0 | 0  | 0  | 20 | 0.878 |
| 2018/09/09 23:59:57 | 12  | 0 | 0  | 0  | 20 | 0.969 |
| 2018/09/10 23:59:57 | 206 | 3 | 12 | 15 | 20 | 1.011 |
| 2018/09/11 23:59:57 | 206 | 0 | 0  | 15 | 21 | 0.866 |
| 2018/09/12 23:59:57 | 209 | 2 | 12 | 15 | 22 | 0.908 |
| 2018/09/13 23:59:57 | 204 | 0 | 0  | 15 | 22 | 0.895 |
| 2018/09/14 23:59:57 | 164 | 0 | 12 | 15 | 21 | 0.920 |
| 2018/09/15 23:59:57 | 14  | 0 | 0  | 0  | 19 | 0.706 |
| 2018/09/16 23:59:57 | 15  | 0 | 0  | 0  | 20 | 0.708 |
| 2018/09/17 23:59:57 | 190 | 4 | 13 | 15 | 21 | 0.785 |
| 2018/09/18 23:59:57 | 192 | 1 | 13 | 16 | 23 | 0.797 |
| 2018/09/19 23:59:57 | 195 | 0 | 0  | 15 | 21 | 0.851 |
| 2018/09/20 23:59:57 | 180 | 0 | 0  | 15 | 21 | 0.789 |
| 2018/09/21 23:59:57 | 150 | 0 | 0  | 15 | 21 | 0.826 |
| 2018/09/22 23:59:57 | 16  | 0 | 0  | 0  | 21 | 0.792 |
| 2018/09/23 23:59:57 | 15  | 0 | 0  | 0  | 17 | 0.853 |
| 2018/09/24 23:59:57 | 200 | 0 | 0  | 15 | 18 | 0.883 |
| 2018/09/25 23:59:57 | 197 | 0 | 0  | 15 | 18 | 0.831 |
| 2018/09/26 23:59:57 | 200 | 0 | 0  | 15 | 18 | 0.804 |
| 2018/09/27 23:59:57 | 208 | 0 | 0  | 16 | 20 | 0.826 |
| 2018/09/28 23:59:57 | 13  | 0 | 0  | 0  | 18 | 3.138 |
| 2018/09/29 23:59:57 | 12  | 0 | 0  | 0  | 17 | 0.659 |
| 2018/09/30 23:59:57 | 12  | 0 | 0  | 0  | 17 | 0.654 |
| 2018/10/01 23:59:57 | 197 | 3 | 13 | 15 | 16 | 1.377 |
| 2018/10/02 23:59:57 | 157 | 0 | 0  | 14 | 17 | 0.755 |
| 2018/10/03 23:59:57 | 173 | 0 | 0  | 15 | 19 | 0.758 |
| 2018/10/04 23:59:57 | 197 | 0 | 0  | 15 | 19 | 0.765 |
| 2018/10/05 23:59:57 | 122 | 0 | 0  | 15 | 19 | 0.755 |
| 2018/10/06 23:59:57 | 9   | 0 | 0  | 0  | 17 | 0.721 |
| 2018/10/07 23:59:57 | 9   | 0 | 0  | 0  | 17 | 0.765 |
| 2018/10/08 23:59:57 | 201 | 0 | 0  | 16 | 20 | 0.799 |
| 2018/10/09 23:59:57 | 208 | 0 | 0  | 16 | 20 | 0.807 |
| 2018/10/10 23:59:57 | 208 | 0 | 0  | 16 | 21 | 0.831 |
| 2018/10/11 23:59:57 | 203 | 0 | 0  | 16 | 21 | 0.826 |
| 2018/10/12 23:59:57 | 159 | 0 | 0  | 15 | 20 | 0.861 |
| 2018/10/13 23:59:57 | 9   | 0 | 0  | 0  | 18 | 0.831 |
| 2018/10/14 23:59:57 | 10  | 0 | 0  | 0  | 18 | 0.898 |
| 2018/10/15 23:59:57 | 189 | 1 | 12 | 16 | 20 | 0.915 |
| 2018/10/16 23:59:57 | 198 | 0 | 0  | 15 | 20 | 0.829 |
| 2018/10/17 23:59:57 | 180 | 0 | 0  | 15 | 19 | 0.775 |
| 2018/10/18 23:59:57 | 201 | 0 | 0  | 15 | 20 | 0.831 |
| 2018/10/19 23:59:57 | 166 | 0 | 0  | 16 | 21 | 0.824 |
| 2018/10/20 23:59:57 | 9   | 0 | 0  | 0  | 19 | 0.770 |
| 2018/10/21 23:59:57 | 9   | 0 | 0  | 0  | 16 | 0.804 |
| 2018/10/22 23:59:57 | 195 | 0 | 0  | 16 | 21 | 0.826 |
| 2018/10/23 23:59:57 | 202 | 0 | 0  | 16 | 19 | 0.871 |
| 2018/10/24 23:59:57 | 201 | 0 | 0  | 15 | 18 | 0.841 |
| 2018/10/25 23:59:57 | 200 | 0 | 0  | 15 | 18 | 0.888 |
| 2018/10/26 23:59:57 | 16  | 0 | 0  | 0  | 18 | 3.106 |
| 2018/10/27 23:59:57 | 17  | 0 | 0  | 0  | 17 | 1.705 |
| 2018/10/28 23:59:57 | 17  | 0 | 0  | 0  | 15 | 1.705 |
| 2018/10/29 23:59:57 | 189 | 1 | 14 | 16 | 18 | 0.787 |

|                     |     |   |    |    |    |       |
|---------------------|-----|---|----|----|----|-------|
| 2018/10/30 23:59:57 | 197 | 0 | 0  | 16 | 19 | 0,782 |
| 2018/10/31 23:59:57 | 192 | 0 | 0  | 16 | 19 | 0,883 |
| 2018/11/01 23:59:57 | 0   | 0 | 0  | 0  | 18 | 0,753 |
| 2018/11/02 23:59:57 | 0   | 0 | 0  | 0  | 16 | 3,269 |
| 2018/11/03 23:59:57 | 0   | 0 | 0  | 0  | 15 | 2,177 |
| 2018/11/04 23:59:57 | 0   | 0 | 0  | 0  | 15 | 1,847 |
| 2018/11/05 23:59:57 | 158 | 4 | 12 | 15 | 17 | 2,174 |
| 2018/11/06 23:59:57 | 196 | 0 | 0  | 16 | 20 | 0,787 |
| 2018/11/07 23:59:57 | 207 | 0 | 0  | 17 | 21 | 0,809 |
| 2018/11/08 23:59:57 | 204 | 0 | 0  | 15 | 20 | 0,819 |
| 2018/11/09 23:59:57 | 162 | 0 | 0  | 15 | 19 | 0,794 |
| 2018/11/10 23:59:57 | 7   | 0 | 0  | 0  | 18 | 0,730 |
| 2018/11/11 23:59:57 | 8   | 0 | 0  | 0  | 16 | 0,694 |
| 2018/11/12 23:59:57 | 195 | 0 | 0  | 15 | 17 | 0,782 |
| 2018/11/13 23:59:57 | 168 | 0 | 0  | 15 | 17 | 0,814 |
| 2018/11/14 23:59:57 | 199 | 0 | 0  | 15 | 19 | 0,804 |
| 2018/11/15 23:59:57 | 203 | 0 | 0  | 16 | 17 | 0,841 |
| 2018/11/16 23:59:57 | 161 | 0 | 0  | 15 | 16 | 0,853 |
| 2018/11/17 23:59:57 | 5   | 0 | 0  | 0  | 15 | 0,770 |
| 2018/11/18 23:59:57 | 5   | 0 | 0  | 0  | 13 | 0,755 |
| 2018/11/19 23:59:57 | 135 | 0 | 0  | 15 | 14 | 0,876 |
| 2018/11/20 23:59:57 | 153 | 0 | 13 | 15 | 16 | 0,900 |
| 2018/11/21 23:59:57 | 199 | 0 | 0  | 15 | 17 | 0,829 |
| 2018/11/22 23:59:57 | 205 | 0 | 0  | 15 | 18 | 0,836 |
| 2018/11/23 23:59:57 | 146 | 0 | 0  | 15 | 18 | 0,866 |
| 2018/11/24 23:59:57 | 6   | 0 | 0  | 0  | 17 | 0,814 |
| 2018/11/25 23:59:57 | 7   | 0 | 0  | 0  | 15 | 0,861 |
| 2018/11/26 23:59:57 | 198 | 0 | 0  | 15 | 17 | 0,880 |
| 2018/11/27 23:59:57 | 200 | 0 | 0  | 15 | 17 | 0,873 |
| 2018/11/28 23:59:57 | 205 | 2 | 12 | 17 | 19 | 0,900 |
| 2018/11/29 23:59:57 | 201 | 0 | 0  | 16 | 18 | 0,826 |
| 2018/11/30 23:59:57 | 167 | 0 | 0  | 16 | 17 | 0,846 |
| 2018/12/01 23:59:57 | 0   | 0 | 0  | 0  | 15 | 0,785 |
| 2018/12/02 23:59:57 | 0   | 0 | 0  | 0  | 14 | 0,831 |
| 2018/12/03 23:59:57 | 187 | 0 | 0  | 16 | 18 | 0,858 |
| 2018/12/04 23:59:57 | 188 | 0 | 0  | 15 | 18 | 0,849 |
| 2018/12/05 23:59:57 | 135 | 3 | 11 | 15 | 17 | 0,915 |
| 2018/12/06 23:59:57 | 187 | 0 | 0  | 15 | 16 | 0,706 |
| 2018/12/07 23:59:57 | 167 | 0 | 0  | 15 | 17 | 0,721 |
| 2018/12/08 23:59:57 | 8   | 0 | 0  | 0  | 16 | 0,718 |
| 2018/12/09 23:59:57 | 8   | 0 | 0  | 0  | 15 | 0,762 |
| 2018/12/10 23:59:57 | 169 | 0 | 0  | 15 | 15 | 0,780 |
| 2018/12/11 23:59:57 | 196 | 0 | 0  | 15 | 15 | 0,743 |
| 2018/12/12 23:59:57 | 196 | 2 | 10 | 15 | 15 | 0,947 |
| 2018/12/13 23:59:57 | 200 | 0 | 0  | 15 | 16 | 0,728 |
| 2018/12/14 23:59:57 | 160 | 0 | 0  | 15 | 15 | 0,755 |
| 2018/12/15 23:59:57 | 0   | 0 | 0  | 0  | 14 | 0,760 |
| 2018/12/16 23:59:57 | 0   | 0 | 0  | 0  | 13 | 0,782 |
| 2018/12/17 23:59:57 | 176 | 0 | 0  | 15 | 14 | 0,819 |
| 2018/12/18 23:59:57 | 184 | 0 | 0  | 15 | 15 | 0,780 |
| 2018/12/19 23:59:57 | 195 | 0 | 0  | 15 | 16 | 0,814 |
| 2018/12/20 23:59:57 | 131 | 0 | 0  | 15 | 15 | 0,804 |
| 2018/12/21 23:59:57 | 52  | 0 | 0  | 15 | 14 | 0,792 |
| 2018/12/22 23:59:57 | 0   | 0 | 0  | 0  | 13 | 0,821 |
| 2018/12/23 23:59:57 | 0   | 0 | 0  | 0  | 13 | 0,890 |
| 2018/12/24 23:59:57 | 0   | 0 | 0  | 0  | 13 | 0,925 |
| 2018/12/25 23:59:57 | 0   | 0 | 0  | 0  | 12 | 0,937 |
| 2018/12/26 23:59:57 | 0   | 0 | 0  | 0  | 11 | 0,969 |
| 2018/12/27 23:59:57 | 0   | 0 | 0  | 0  | 12 | 1,006 |
| 2018/12/28 23:59:57 | 0   | 0 | 0  | 0  | 11 | 1,013 |
| 2018/12/29 23:59:57 | 0   | 0 | 0  | 0  | 11 | 1,013 |
| 2018/12/30 23:59:57 | 0   | 0 | 0  | 0  | 10 | 1,013 |
| 2018/12/31 23:59:57 | 0   | 0 | 0  | 0  | 9  | 1,016 |

Ergebnis: Die Grenzwerte der Zustimmungserklärung werden eingehalten.