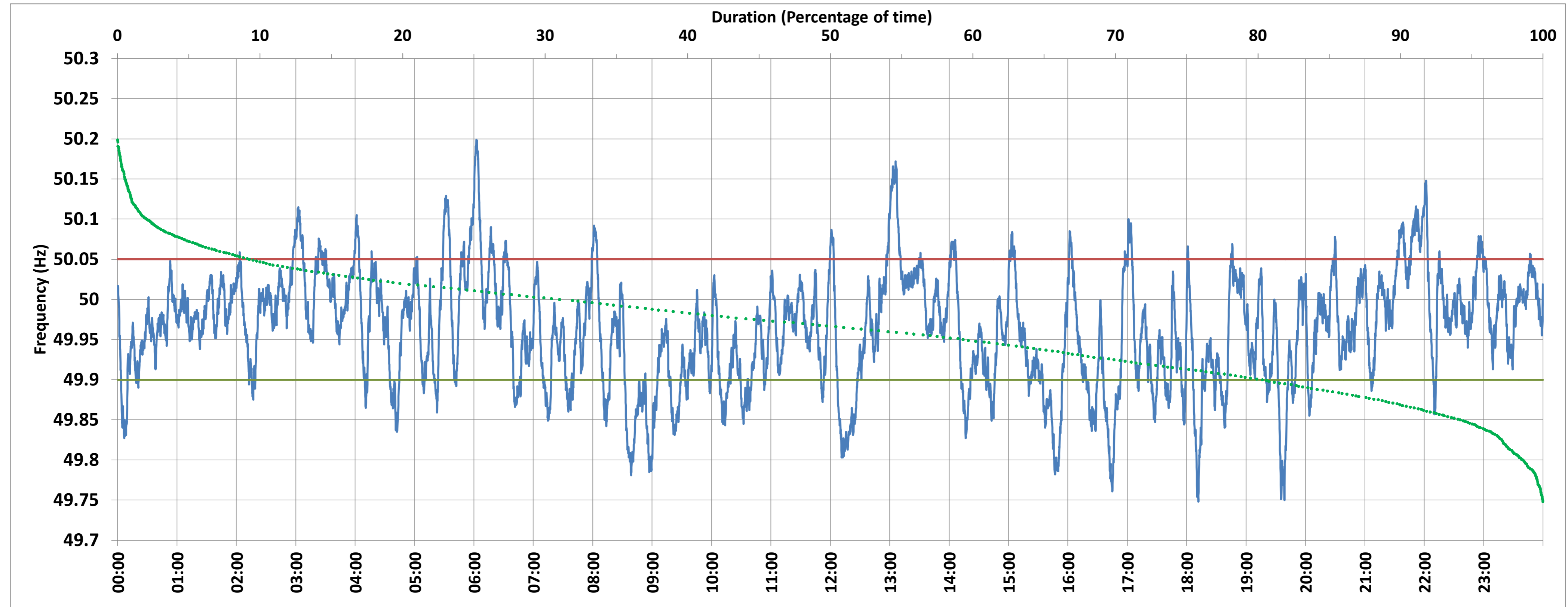




BALLIA:Frequency

National Grid Frequency Profile for 6-Jan-2018



|       |        |        |           |           |           |           |           |             |           |             |            |       |        |        |       |
|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|
| <49.7 | <49.90 | <49.97 | 49.7-49.8 | 49.8-49.9 | 49.9-50.0 | 50.0-50.1 | 50.1-50.2 | 49.90-50.05 | 49.7-50.2 | 49.97-50.03 | 50.05-50.1 | >50   | >50.03 | >50.05 | >50.2 |
| 0.00  | 19.40  | 51.24  | 1.35      | 18.04     | 48.70     | 29.77     | 2.13      | 71.35       | 100.00    | 33.23       | 7.45       | 31.01 | 15.53  | 9.25   | 0.00  |

|                     |        |                             |       |                      |       |
|---------------------|--------|-----------------------------|-------|----------------------|-------|
| Average Frequency : | 49.963 | Frequency Variation Index : | 0.064 | Standard Deviation : | 0.070 |
|---------------------|--------|-----------------------------|-------|----------------------|-------|

| Instantaneous Frequency |        |          |
|-------------------------|--------|----------|
| Max                     | 50.199 | 6:02:20  |
| Min                     | 49.748 | 18:11:40 |

| 15 minute Average Frequency |        |          |
|-----------------------------|--------|----------|
| Max                         | 50.097 | 13:15:00 |
| Min                         | 49.848 | 8:45:00  |

|                                  |     |
|----------------------------------|-----|
| No. of excursions above 50.03 Hz | 75  |
| No. of excursions below 49.97 Hz | 125 |
| No. of excursions above 50.00 Hz | 82  |
| No. of excursions below 50.00 Hz | 80  |

|   |         |  |         |
|---|---------|--|---------|
| Average time freq remains below 49.97 per excursion | 0:05:54 | Average time frequency remains above 50.03 per excursion | 0:02:59 |
|---|---------|--|---------|