|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | k (Number of customers in a cluster) | | | | | | | | | |
| k=1 | k=2 | k=3 | k=4 | k=5 | k=6 | k=7 | k=8 | k=9 | k=10 |
| CAISO | Simple load aggregation | 1.01 | 0.83 | 0.68 | 0.64 | 0.58 | 0.56 | 0.52 | 0.51 | 0.52 | 0.52 |
| Proposed method | 1.01 | 0.81 | 0.66 | 0.62 | 0.60 | 0.55 | 0.44 | 0.51 | 0.51 | 0.49 |
| PJM | Simple load aggregation | 1.00 | 0.83 | 0.73 | 0.66 | 0.62 | 0.58 | 0.54 | 0.53 | 0.52 | 0.49 |
| Proposed method | 1.00 | 0.77 | 0.64 | 0.59 | 0.55 | 0.47 | 0.41 | 0.42 | 0.43 | 0.42 |

The average for all ks for simple load aggregation and the proposed method in CAISO case are 0.601 and 0.58, respectively. The proposed method shows 3.43 percent improvement.

The average for all ks for simple load aggregation and the proposed method in PJM case are 0.616 and 0.527, respectively. The proposed method shows 14.42 percent improvement.