|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ranking | Firm | Probability of being efficient | *p* = 0.75 | | | *p* = 0.85 | | | *p* = 0.95 | | |
|  | Reached Probability | Peer |  | Reached Probability | Peer |  | Reached Probability | Peer |
| 1 | 2 | 0.9999 | 0 | 0.75 | 2 | 0 | 0.85 | 2 | 0 | 0.95 | 2 |
| 2 | 18 | 0.9998 | 0 | 0.75 | 18 | 0 | 0.85 | 18 | 0 | 0.95 | 18 |
| 3 | 3 | 0.9996 | 0 | 0.75 | 3 | 0 | 0.85 | 3 | 0 | 0.95 | 3 |
| 4 | 17 | 0.9983 | 0 | 0.75 | 17 | 0 | 0.85 | 17 | 0 | 0.95 | 17 |
| 5 | 20 | 0.9962 | 0 | 0.75 | 20 | 0 | 0.85 | 20 | 0 | 0.95 | 20 |
| 6 | 36 | 0.9960 | 0 | 0.75 | 36 | 0 | 0.85 | 36 | 0 | 0.95 | 36 |
| 7 | 46 | 0.9894 | 0 | 0.75 | 46 | 0 | 0.85 | 46 | 0 | 0.95 | 46 |
| 8 | 1 | 0.9868 | 0 | 0.75 | 1 | 0 | 0.85 | 1 | 0 | 0.95 | 1 |
| 9 | 56 | 0.9705 | 0 | 0.75 | 56 | 0 | 0.85 | 56 | 0 | 0.95 | 56 |
| 10 | 62 | 0.9486 | 0 | 0.75 | 62 | 0 | 0.85 | 62 | 0 | 0.9486 | 46 |
| 11 | 93 | 0.9441 | 0 | 0.75 | 93 | 0 | 0.85 | 93 | 0 | 0.9441 | 46 |
| 12 | 92 | 0.9335 | 0 | 0.75 | 92 | 0 | 0.85 | 92 | 0 | 0.9335 | 46 |
| 13 | 9 | 0.9288 | 0 | 0.75 | 9 | 0 | 0.85 | 9 | 0.8734 | 0.95 | 3 |
| 14 | 97 | 0.9176 | 0 | 0.75 | 97 | 0 | 0.85 | 97 | 0 | 0.9176 | 46 |
| 15 | 25 | 0.4981 | 0.3033 | 0.75 | 17 | 0.3650 | 0.85 | 17 | 0.4815 | 0.95 | 17 |
| 16 | 26 | 0.4909 | 0.4131 | 0.75 | 17 | 0.5025 | 0.8078 | 17 | 0.5025 | 0.8078 | 17 |
| 17 | 91 | 0.0735 | 0.1005 | 0.5385 | 93 | 0.1005 | 0.5385 | 93 | 0.1005 | 0.5385 | 56 |
| 18 | 22 | 0.0560 | 0.2665 | 0.7500 | 18 | 0.2942 | 0.85 | 18 | 0.3480 | 0.95 | 18 |
| 19 | 43 | 0.0549 | 0.1005 | 0.4121 | 46 | 0.1005 | 0.4121 | 46 | 0.1005 | 0.4121 | 46 |
| 20 | 85 | 0.0490 | 0.0994 | 0.75 | 93 | 0.1005 | 0.7596 | 93 | 0.1005 | 0.7596 | 46 |
| 21 | 95 | 0.0338 | 0.1986 | 0.7500 | 56 | 0.2145 | 0.85 | 56 | 0.2495 | 0.95 | 56 |
| 22 | 83 | 0.0335 | 0 | 0.0335 | 92 | 0 | 0.0335 | 92 | 0 | 0.0335 | 46 |
| 23 | 44 | 0.0183 | 0.0710 | 0.75 | 56 | 0.0824 | 0.85 | 56 | 0.1091 | 0.95 | 56 |
| 24 | 75 | 0.0167 | 0 | 0.0167 | 62 | 0 | 0.0167 | 62 | 0 | 0.0167 | 46 |
| 25 | 94 | 0.0099 | 0.1005 | 0.0048 | 93 | 0.1005 | 0.0048 | 93 | 0.1005 | 0.0048 | 46 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | DMU 22 | | | DMU 26 | | |
|  | Target (#18) | | | Target (#17) | | |
|  | Observed | Predicted |  | Observed | Predicted |  |
| Total assets | 24.71 | 23.20 | (-6.11%) | 27.93 | 25.36 | (-9.23%) |
| Employees | 212 | 196.97 | (-7.09%) | 80 | 54.33 | (-32.09%) |
| Fixed assets | 11.46 | 10.96 | (-4.39%) | 13 | 12.14 | (-6.62%) |
| Personnel expenses | 8 | 8.00 | (-0.02%) | 2.17 | 2.16 | (-0.16%) |
| Operating income | 80.89 | 90.21 | (11.51%) | 72.57 | 88.47 | (21.92%) |
| Probability. *p* | 0.056 | 0.85 |  | 0.49 | 0.81 |  |
|  | - | 0.29 |  | - | 0.50 |  |
|  | DMU 83 | | | DMU 36 | | |
|  | Target (#92) | | | Target (#36) | | |
|  | Observed | Predicted |  | Observed | Predicted |  |
| Total assets | 7.24 | 7.24 | (0%) | 67.59 | 25.36 | (0%) |
| Employees | 51 | 51 | (0%) | 53 | 54.33 | (0%) |
| Fixed assets | 0.66 | 0.66 | (0%) | 5.21 | 12.14 | (0%) |
| Personnel expenses | 2.04 | 2.04 | (0%) | 3.91 | 2.16 | (0%) |
| Operating income | 8.89 | 8.89 | (0%) | 54.91 | 88.47 | (0%) |
| Probability. *p* | 0.03 | 0.03 |  | 0.99 | 0.85 |  |
|  | - | 0 |  | - | 0 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  | *p* = 0.85 |  |
| Ranking\_efficiency | Firm | Probability of being efficient |  | Reached Probability | Peer |
| 1 | 2 | 0.9999 | 0 | 0.85 | 2 |
| 2 | 18 | 0.9998 | 0 | 0.85 | 18 |
| 3 | 3 | 0.9996 | 0 | 0.85 | 3 |
| 4 | 17 | 0.9983 | 0 | 0.85 | 17 |
| 5 | 20 | 0.9962 | 0 | 0.85 | 20 |
| 6 | 36 | 0.996 | 0 | 0.85 | 36 |
| 7 | 46 | 0.9894 | 0 | 0.85 | 46 |
| 8 | 1 | 0.9868 | 0 | 0.85 | 1 |
| 9 | 56 | 0.9705 | 0 | 0.85 | 56 |
| 10 | 62 | 0.9486 | 0 | 0.85 | 62 |
| 11 | 93 | 0.9441 | 0 | 0.85 | 93 |
| 12 | 92 | 0.9335 | 0 | 0.85 | 92 |
| 13 | 9 | 0.9288 | 0 | 0.85 | 9 |
| 14 | 97 | 0.9176 | 0 | 0.85 | 97 |
| 15 | 44 | 0.0183 | 0.0824 | 0.85 | 56 |
| 16 | 15 | 0.0023 | 0.1454 | 0.85 | 18 |
| 17 | 88 | 0.007 | 0.197 | 0.85 | 93 |
| 18 | 95 | 0.0338 | 0.2145 | 0.85 | 56 |
| 19 | 42 | 0.0038 | 0.2633 | 0.85 | 36 |
| 20 | 71 | 0.0005 | 0.2765 | 0.85 | 56 |
| 21 | 64 | 0.0018 | 0.2873 | 0.85 | 56 |
| 22 | 31 | 0.0001 | 0.2896 | 0.85 | 18 |
| 23 | 22 | 0.056 | 0.2942 | 0.85 | 18 |
| 24 | 73 | 0.0001 | 0.2981 | 0.85 | 93 |
| 25 | 69 | 0.0017 | 0.3097 | 0.85 | 56 |
| 26 | 67 | 0.0021 | 0.3202 | 0.85 | 56 |
| 27 | 76 | 0.0029 | 0.3259 | 0.85 | 93 |
| 28 | 25 | 0.4981 | 0.365 | 0.85 | 17 |
| 29 | 68 | 0.0004 | 0.3714 | 0.85 | 56 |
| 30 | 58 | 0.005 | 0.3951 | 0.85 | 46 |
| 31 | 86 | 0.0019 | 0.4024 | 0.85 | 56 |
| 32 | 48 | 0.0001 | 0.4458 | 0.85 | 46 |
| 33 | 53 | 0 | 0.4476 | 0.85 | 56 |
| 34 | 61 | 0.0001 | 0.4492 | 0.85 | 56 |
| 35 | 51 | 0.0006 | 0.5399 | 0.85 | 56 |
| 36 | 49 | 0.0009 | 0.5584 | 0.85 | 18 |
| 37 | 55 | 0.0005 | 0.6641 | 0.85 | 56 |
| 38 | 41 | 0.0006 | 0.8121 | 0.85 | 18 |
| 39 | 60 | 0.0006 | 0.8146 | 0.85 | 56 |
| 40 | 84 | 0.0012 | 1.0532 | 0.85 | 56 |
| 41 | 12 | 0.0013 | 1.092 | 0.85 | 18 |
| 42 | 79 | 0.0006 | 1.1175 | 0.85 | 56 |
| 43 | 57 | 0.0009 | 1.1426 | 0.85 | 18 |
| 44 | 30 | 0.0005 | 1.1637 | 0.85 | 18 |
| 45 | 47 | 0.0006 | 1.2221 | 0.85 | 56 |
| 46 | 45 | 0.0006 | 1.2521 | 0.85 | 18 |
| 47 | 4 | 0.0014 | 1.329 | 0.85 | 9 |
| 48 | 19 | 0.0008 | 1.4364 | 0.85 | 9 |
| 49 | 35 | 0 | 1.4846 | 0.85 | 18 |
| 50 | 13 | 0.0008 | 1.4867 | 0.85 | 9 |
| 51 | 39 | 0.0006 | 1.8448 | 0.85 | 18 |
| 52 | 24 | 0.0001 | 1.847 | 0.85 | 18 |
| 53 | 10 | 0.0008 | 2.0748 | 0.85 | 9 |
| 54 | 29 | 0.0006 | 2.1556 | 0.85 | 18 |
| 55 | 38 | 0.0006 | 2.4489 | 0.85 | 9 |
| 56 | 34 | 0.0006 | 2.5875 | 0.85 | 18 |
| 57 | 21 | 0 | 2.6141 | 0.85 | 9 |
| 58 | 16 | 0 | 3.1932 | 0.85 | 9 |
| 59 | 32 | 0.0006 | 3.2558 | 0.85 | 18 |
| 60 | 23 | 0.0006 | 3.3215 | 0.85 | 9 |
| 61 | 33 | 0.0006 | 4.2378 | 0.85 | 9 |
| 62 | 14 | 0.0006 | 4.7428 | 0.85 | 9 |
| 63 | 7 | 0.0001 | 5.5861 | 0.85 | 9 |
| 64 | 11 | 0 | 5.7558 | 0.85 | 9 |
| 65 | 6 | 0.0006 | 7.4255 | 0.85 | 9 |
| 66 | 5 | 0 | 8.2035 | 0.85 | 9 |
| 67 | 26 | 0.4909 | 0.5025 | 0.8078 | 17 |
| 68 | 40 | 0.0001 | 2.3116 | 0.8007 | 18 |
| 69 | 8 | 0 | 11.6583 | 0.8007 | 9 |
| 70 | 37 | 0.0006 | 1.608 | 0.8006 | 56 |
| 71 | 27 | 0.0001 | 2.1106 | 0.7995 | 18 |
| 72 | 85 | 0.049 | 0.1005 | 0.7596 | 93 |
| 73 | 72 | 0.0001 | 0.3015 | 0.74 | 93 |
| 74 | 70 | 0.0026 | 0.201 | 0.6879 | 62 |
| 75 | 63 | 0.0006 | 0.9045 | 0.5543 | 56 |
| 76 | 91 | 0.0735 | 0.1005 | 0.5385 | 93 |
| 77 | 90 | 0.0085 | 0.3015 | 0.4433 | 56 |
| 78 | 54 | 0.0001 | 0.5025 | 0.4247 | 46 |
| 79 | 43 | 0.0549 | 0.1005 | 0.4121 | 46 |
| 80 | 65 | 0.0006 | 0.5025 | 0.0776 | 46 |
| 81 | 52 | 0 | 2.0101 | 0.0741 | 56 |
| 82 | 28 | 0.0003 | 0.603 | 0.0739 | 20 |
| 83 | 50 | 0 | 0.5025 | 0.0527 | 46 |
| 84 | 83 | 0.0335 | 0 | 0.0335 | 92 |
| 85 | 59 | 0.001 | 0.1005 | 0.0225 | 62 |
| 86 | 74 | 0 | 0.5025 | 0.0212 | 46 |
| 87 | 75 | 0.0167 | 0 | 0.0167 | 62 |
| 88 | 94 | 0.0099 | 0.1005 | 0.0048 | 93 |
| 89 | 82 | 0.0023 | 0 | 0.0023 | 92 |
| 90 | 81 | 0.0021 | 0 | 0.0021 | 18 |
| 91 | 89 | 0.0027 | 0.1005 | 0.0018 | 93 |
| 92 | 96 | 0.0012 | 0 | 0.0012 | 92 |
| 93 | 80 | 0.0009 | 0 | 0.0009 | 92 |
| 94 | 78 | 0.0006 | 0 | 0.0006 | 92 |
| 95 | 66 | 0.0006 | 0.1005 | 0.0004 | 62 |
| 96 | 77 | 0.0005 | 0.201 | 0.0001 | 93 |
| 97 | 87 | 0 | 0.5025 | 0.0001 | 46 |