Comparison of R22 and MSE of Different Models

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| Model | Operation  condition | R22 | | | | MSE | | | |
| Y1 | Y2 | Y3 | Y4 | Y1 | Y2 | Y3 | Y4 |
| SVR | 300Mvar | 0.161 | 22.079 | 0.141 | 25.183 | 0.576 | 3.169 | 0.139 | 24.421 |
| -150Mvar | 0.062 | 50.893 | 0.104 | 34.085 | 0.532 | 4.026 | 0.207 | 17.849 |
| Ridge | 300Mvar | 0.685 | 0.309 | 0.935 | 0.670 | 3.099 | 0.072 | 16.260 | 3.582 |
| -150Mvar | 0.458 | 0.638 | 0.900 | 0.662 | 16.988 | 0.183 | 5.568 | 3.235 |
| MLP | 300Mvar | 0.053 | 0.113 | 0.164 | 0.006 | 28.140 | 26.838 | 12.308 | 33.411 |
| -150Mvar | 0.132 | 0.003 | 0.155 | 0.236 | 43.625 | 42.196 | 13.121 | 16.558 |
| KNeighbors | 300Mvar | 0.882 | 0.876 | 0.976 | 0.875 | 0.437 | 0.009 | 0.525 | 0.514 |
| -150Mvar | 0.500 | 0.881 | 0.963 | 0.740 | 14.4728 | 0.023 | 0.601 | 1.906 |
| GPR | 300Mvar | 0.872 | 0.856 | 0.797 | 0.867 | 0.508 | 0.723 | 0.704 | 0.580 |
| -150Mvar | 0.729 | 0.838 | 0.968 | 0.876 | 4.249 | 0.018 | 1.102 | 0.432 |
| Lasso | 300Mvar | 0.344 | 0.256 | 0.751 | 0.365 | 13.481 | 0.953 | 23.259 | 10.123 |
| -150Mvar | 0.163 | 0.244 | 0.780 | 0.374 | 40.550 | 0.883 | 24.259 | 11.129 |
| Deep forest | 300Mvar | 0.974 | 0.975 | 0.987 | 0.976 | 0.020 | 0.019 | 0.002 | 0.018 |
| -150Mvar | 0.945 | 0.972 | 0.983 | 0.952 | 0.169 | 0.032 | 0.004 | 0.064 |