# South Carolina Retirement System (SCRS) 

## Expanded to 30 Year

Projection Based on July 1, 2016 Actuarial Valuation
Investment Return Assumption is 7.50\% for 2016, 7.25\% for 2017 Through 2018, and 7.00\% for 2019 and Thereafter
Assumes Emerging Investment Experience is 4.00\% Per Year for FY 2017-2021 and 7.00\% Each Year Thereafter
$\mathbf{2 . 0 0 \%}$ Increase in the Employer Contribution Rate at July 1, 2017, and $\mathbf{1 . 0 0 \%}$ Increase at each July 1, 2018 through 2022 (Member Rate Capped at $9.00 \%$ )
(\$ in Millions)


Projection based on the July 1, 2016 actuarial valuation. This information is provided for stakeholders to understand the financial impact based on the illustrated assumptions and emerging investment experience for decision making purposes.

The proposed legislation would permit the Board to decrease the employer and member contribution rates in equal amount after the System attains an $85 \%$ funded ratio. For illustration purposes, the member and employer contribution rates gradually decrease at the rate of $1.50 \%$ per year after the System attains a $100 \%$ funded ratio.

## Police Officers Retirement System (PORS)

## . - Alternative 1. Expanded to 30 Year

Projection Based on July 1, 2016 Actuarial Valuation

## Investment Return Assumption is 7.50\% for 2016, 7.25\% for 2017 and 2018, and 7.00\% for 2019 and Thereafter

 Assumes Emerging Investment Experience is 4.00\% Per Year for FY 2017-2021 and 7.00\% Each Year Thereafter$\mathbf{2 . 0 0 \%}$ Increase in the Employer Contribution Rate at July 1, 2017, and $\mathbf{1 . 0 0 \%}$ Increase at each July 1, 2018 through 2022 (Member Rate Capped at 9.75\%)
(\$ in Millions)

| July 1, | Maintain 5.00 <br> 9.75\% M <br> Employer | Subject to a ber Rate Member |  | Unfunded Liability | Funded Ratio AVA / AAL | Funding Period (years) |  | Interest on <br> Unfunded Liability <br> Column 4 x Int Rate |  | Amortization <br> Payment | Positive/(Negative) <br> Interest Payment <br> Column 8 - Column 7 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (1) | (2) | (3) |  | (4) | (5) | (6) |  | (7) |  | (8) |  |  |
| 2016 | 14.24\% | 9.24\% | \$ | 2,213 | 66\% | 20 | \$ | 166 | \$ | 142 | \$ | (24) |
| 2017 | 16.24\% | 9.75\% |  | 2,637 | 63\% | 24 |  | 191 |  | 169 |  | (22) |
| 2018 | 17.24\% | 9.75\% |  | 2,872 | 61\% | 23 |  | 208 |  | 186 |  | (22) |
| 2019 | 18.24\% | 9.75\% |  | 3,325 | 58\% | 26 |  | 233 |  | 194 |  | (39) |
| 2020 | 19.24\% | 9.75\% |  | 3,543 | 56\% | 25 |  | 248 |  | 212 |  | (36) |
| 2021 | 20.24\% | 9.75\% |  | 3,716 | 56\% | 23 |  | 260 |  | 231 |  | (29) |
| 2022 | 21.24\% | 9.75\% |  | 3,855 | 56\% | 24 |  | 270 |  | 251 |  | (19) |
| 2023 | 21.24\% | 9.75\% |  | 3,950 | 57\% | 23 |  | 277 |  | 257 |  | (20) |
| 2024 | 21.24\% | 9.75\% |  | 4,014 | 57\% | 23 |  | 281 |  | 265 |  | (16) |
| 2025 | 21.24\% | 9.75\% |  | 4,045 | 59\% | 22 |  | 283 |  | 273 |  | (10) |
| 2026 | 21.24\% | 9.75\% |  | 4,042 | 60\% | 21 |  | 283 |  | 281 |  | (2) |
| 2027 | 21.24\% | 9.75\% |  | 4,030 | 61\% | 20 |  | 282 |  | 290 |  | 8 |
| 2028 | 21.24\% | 9.75\% |  | 4,008 | 63\% | 19 |  | 281 |  | 298 |  | 17 |
| 2029 | 21.24\% | 9.75\% |  | 3,975 | 64\% | 18 |  | 278 |  | 308 |  | 30 |
| 2030 | 21.24\% | 9.75\% |  | 3,931 | 66\% | 17 |  | 275 |  | 317 |  | 42 |
| 2031 | 21.24\% | 9.75\% |  | 3,874 | 67\% | 16 |  | 271 |  | 327 |  | 56 |
| 2032 | 21.24\% | 9.75\% |  | 3,803 | 69\% | 15 |  | 266 |  | 336 |  | 70 |
| 2033 | 21.24\% | 9.75\% |  | 3,717 | 71\% | 14 |  | 260 |  | 347 |  | 87 |
| 2034 | 21.24\% | 9.75\% |  | 3,614 | 72\% | 13 |  | 253 |  | 357 |  | 104 |
| 2035 | 21.24\% | 9.75\% |  | 3,492 | 74\% | 12 |  | 244 |  | 368 |  | 124 |
| 2036 | 21.24\% | 9.75\% |  | 3,351 | 76\% | 11 |  | 235 |  | 380 |  | 145 |
| 2037 | 21.24\% | 9.75\% |  | 3,188 | 78\% | 9 |  | 223 |  | 392 |  | 169 |
| 2038 | 21.24\% | 9.75\% |  | 3,002 | 79\% | 8 |  | 210 |  | 404 |  | 194 |
| 2039 | 21.24\% | 9.75\% |  | 2,790 | 81\% | 7 |  | 195 |  | 417 |  | 222 |
| 2040 | 21.24\% | 9.75\% |  | 2,549 | 84\% | 6 |  | 178 |  | 430 |  | 252 |
| 2041 | 21.24\% | 9.75\% |  | 2,277 | 86\% | 5 |  | 159 |  | 443 |  | 284 |
| 2042 | 21.24\% | 9.75\% |  | 1,973 | 88\% | 5 |  | 138 |  | 457 |  | 319 |
| 2043 | 21.24\% | 9.75\% |  | 1,634 | 90\% | 4 |  | 114 |  | 471 |  | 357 |
| 2044 | 21.24\% | 9.75\% |  | 1,256 | 93\% | 3 |  | 88 |  | 486 |  | 398 |
| 2045 | 21.24\% | 9.75\% |  | 837 | 95\% | 2 |  | 59 |  | 500 |  | 441 |
| 2046 | 21.24\% | 9.75\% |  | 373 | 98\% | 1 |  | 26 |  | 515 |  | 489 |

Projection based on the July 1, 2016 actuarial valuation. This information is provided for stakeholders to understand the financial impact based on the illustrated assumptions and emerging investment experience for decision making purposes.

The proposed legislation would permit the Board to decrease the employer and member contribution rates in equal amount after the System attains an $85 \%$ funded ratio. For illustration purposes, the member and employer contribution rates do not decrease until the plan attains a $100 \%$ funded ratio. It is assumed the employer and member will each decrease by $1.00 \%$ each year after the plan attains a $100 \%$ funded ratio.

