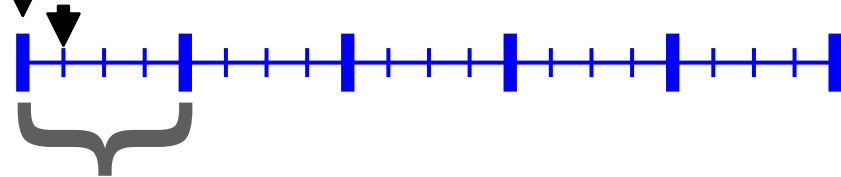


## Calculation of variable costs

Given interest rate= $r$ ,  $m$ -th modeled year  $m = y - y_{min}$

Variable cost of  $m$ -th modeled year =  $B$

Variable cost of non-modeled year =  $B$



Length of  $m$ -th planning periods= $k$

Total present value

$$= B + B/(1+r) + B/(1+r)^2 + \dots + B/(1+r)^{m+k-1}$$

$$= B(1+r)^{(1-m)}(1 - (1+r)^k)/r$$

$$\text{That is } factor_y^{var} = B(1+r)^{(1-m)}(1 - (1+r)^k)/r$$