$150 \frac{J/s}{m^2} \cdot .2 = 30 \frac{J/s}{m^2}$

$t = 10$ years

$q'' = 150 \frac{J/s}{m^2}$

$30 \cdot (60 \cdot 60 \cdot 24 \cdot 365 \cdot 10) \frac{J/\cancel{s}}{m^2} \cdot \cancel{s}$

$\$ = 120 \$/m^2$

2020

$= 9.461 \frac{GJ}{m^2}$ over 10 years

$$\frac{120 \ \$/\cancel{m^2}}{9.461 \ GJ/\cancel{m^2}} = \boxed{12.68 \ \$/GJ}$$