

2021 Q6

(EQUATIONS)

One Energy values STEM education – so much that each wind turbine One Energy installs represents a \$5,000 per year scholarship to a local student pursuing a STEM degree. With 20 scholarship-eligible turbines installed, One Energy has given dozens of students scholarship funds to date.

Level 1: As of 2020, One Energy has had 5 turbines give out 5 scholarships each. 4 turbines have given out 4 scholarships each. 2 turbines have given out 3 scholarships each. 6 turbines have given out 2 scholarships each, and 3 turbines have each given out one scholarship. How much scholarship money has been awarded through 2020?

Level 2: Assume that Year 1 is the first year that all turbines in the Level 1 question have awarded a scholarship. How much scholarship money would be awarded through Year 7? Create an equation that would be valid for any given year after Year 1.

A Megawatt Scholarship recipient receiving her award.

