KENTUCKY YMCA YOUTH ASSOCIATION

KENTUCKY YOUTH ASSEMBLY
Premiere Bill

Red | Bill # P32

Referred to Committee:
Senate 1

Authors: Katie Dace, Olivia Laws, Avery Periard, Anna Powell

School: South Oldham HS

City: Crestwood

Action on the Bill

House	Senate
____ ☐ Passed	____ ☐ Passed
____ ☐ Defeated	____ ☐ Defeated

An act to start integrating solar panel walkways, parking lots, and roads into Kentucky's infrastructure.

Be it enacted by the Youth Assembly of the Commonwealth of Kentucky

Section 1: Kentucky receives an average of 12.7 inches of snowfall each year. Generally, we use road salt In order to clear the snow off the roads, which helps melt the ice and snow off the road. The salt however ruins the infrastructure of our roads in Kentucky as well as corroding bridges and parking lots.

Section 2: We plan to implement these solar roadways into our roadways system as a great alternative to road salt. These roadways use the energy they collect from the sun to heat up the surface and melt what ice or snow is on them. As well as saving money on the road salt, we also save money on the paint used to paint the road lines. The solar roads use LED lights to create the lines on the roads.

Section 3: According to Scott Brusaw, an electrical engineer, these roadways save money because there is little to no maintenance, plus over time it begins to pay for itself. For each 230 watt solar panel we get about 21,827 billion kilowatt-hours of electricity. On overcast days solar roadways gets more energy than standing up solar panels. These panels last 20 years. The cost of the solar panels roadways is $70 per square foot.

Section 4: We plan to integrate these solar panels on roads that are notoriously dangerous during the winter months. All around Kentucky, certain areas of roads have more wrecks than others. For example, I-75, I-64, Bluegrass Parkway, New Circle Road, Man O' War Boulevard, and Bert T. Combs Mountain Parkway are all roadways that endure dangerous driving conditions. In order to effectively place these panels, we will look at where most number of ice related accidents occur. Then, we will begin the process by integrating solar roadways into the top 3% of roads sections with the most ice related accidents.

Section 5: This bill will go into effect in July 2016.