



Community Climate Solutions **The Smart Pole as a STEM Teaching Tool**

The recently enacted Inflation Reduction Act has sweeping climate change initiatives that encourage energy solutions at the community level. The Aris Wind Smart Pole can be a key tool to raise climate solutions awareness and foster engagement with the community's youth. Aris Wind has partnered with a well-credentialed STEM educator, Latoya Wilson of Wilson Career Readiness Consultancy, to collaborate with and develop project-based materials for youth STEM projects that can utilize the Aris Wind Smart Pole as an effective teaching tool—with the goal to motivate the youth in pursuing STEM careers or careers in the growing green energy industries.



[ComEd's STEM driven RPU Project](#) at Dyett High School in Bronzeville (Chicago), IL



Latoya Wilson of [Wilson Career Readiness Consultancy](#).

Aris Wind has provided about 150 of its Smart Pole products, many of which are at schools. Aris has developed a **STEM and Climate Change Pathways Curriculum** that uses its Smart Pole product to develop project-based activities to train K-12 students how to collect and analyze real energy data.

Latoya Wilson serves as a Career Pathway Consultant for Aris Wind. Latoya's credentials include a bachelor's in business administration from Georgia State University and a master's in public administration from University of Baltimore. Currently, she teaches Political Science as an Adjunct at Middlesex College, also serves on the Planning Board in Hamilton, NJ, on the Workforce Development Board in Mercer County and is a Board member of Northeast Economic Development Association.

STEM Project Based Curriculums Offered for Elementary and High School Projects

Description of Services

Settings

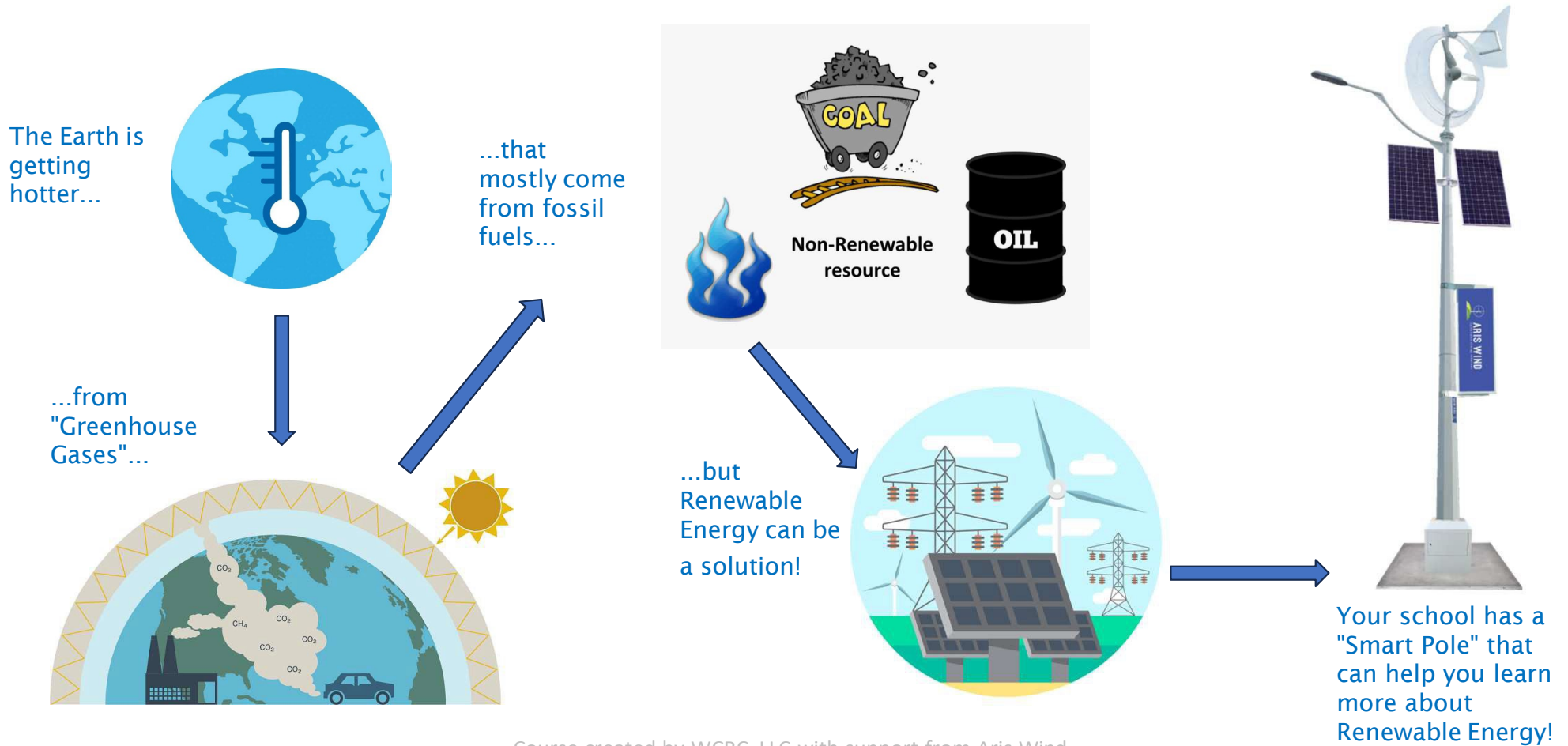
- In school or afterschool programs
- Programs and activities sponsored by Municipalities.
 - Green Team, Libraries, YMCA/YWCA, Summer Programs

Learning Objectives/Outcome

- Definition of environmental sustainability and resiliency, their purposes and impact to the environment and society
- The role Smart Poles play in environmental sustainability
- How electricity is made, stored, and used
- Electric grid definition, problems, and solutions
- Energy production, conservation and efficiency
- Develop an understanding on solar photovoltaic power, wind power and energy storage
- Utilize Smart Pole controls to illustrate operating parameters such as
 - Voltage amperage and wattage for the solar, wind, light and battery
- Capture data to see trends of wind and sun resource daily and seasonally,
- Discuss how security tools will create a safer environment
- Learning and building statistical skills in analyzing data
- Incorporate project-based and community partnership activities based on school's curriculum

Members: New Jersey School Boards Administration (Corporate Sponsors), NJ School Buildings and Grounds Association, NJ Association of Designated Persons, NEEDA, CTEA, NJ Pathway

From the "Big Picture" of Climate Change to a Renewable Energy "Working Example" on your school campus...



Course created by WCRC, LLC with support from Aris Wind