

The Green Guide: A Curriculum of Global Sustainability

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Richland Community College is a partner in the Illinois Industrial Carbon Capture and Storage (IL-ICCS) Project, the largest project currently under construction in the U.S. to store CO₂ in a deep saline formation. Integral to the project are Carbon Capture, Utilization, and Storage (CCUS) education and public outreach activities. Richland offers the world's first Associate degree programs with emphasis in CCUS at the National Sequestration Education Center, located on the college campus. Additionally, Richland has developed a K-12 educational component, focused on CCUS, renewable energy, and other global sustainability practices. *The Green Guide: A Curriculum of Global Sustainability* was developed by Richland, in collaboration with Decatur Public Schools, the Illinois Department of Commerce and Economic Opportunity, Office of Coal Development (DCEO-OCD), the U.S. Department of Energy – National Energy Technology Laboratory (DOE-NETL), and the Archer Daniels Midland Company (ADM).

The Green Guide was developed for grade levels K-2, 3-5, 6-8 and 9-12, providing students with interactive learning activities in five topic areas: (1) Sustainable Agriculture, (2) Wind Energy, (3) Solar Energy, (4) Recycling, and (5) Carbon and Climate Change. Each topic area is designed with classroom readiness in mind. The guide provides teachers with overview statements and objectives for quick referencing. The guide also states the Next Generation Science Standards, Common Core for English Language Arts and Mathematics, and Technology Standards that are addressed in each topic. All of the topic areas are provided with materials lists, key terms, pre-instructional activities, and PowerPoint presentations with teacher background information. Companion student activities and assessments with printable handouts and rubrics are also provided. The five topic areas conclude with ideas for supplemental enrichment activities. A Tool Kit that contains materials for hands-on activities accompanies each *Green Guide*.



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