

# VALUE YOUR POWER

VIRGINIA ENERGY SENSE

## STANDARDS ALIGNMENT

This program aligns with  
Virginia State Standards of Learning for Grade 4  
in the following areas:

### **Activity 1**

#### Math

#### Factors and Multiples, and Fraction and Decimal Operations

4.4 The student will

- a) estimate sums, differences, products, and quotients of whole numbers;
- b) add, subtract, and multiply whole numbers;
- c) divide whole numbers, finding quotients with and without remainders; and
- d) solve single-step and multistep addition, subtraction, and multiplication problems with whole numbers.

#### Outcomes and Data

4.14 The student will collect, organize, display, and interpret data from a variety of graphs.

### **Activities 2 and 3**

#### Science

#### Scientific Investigation, Reasoning, and Logic

4.1 The student will plan and conduct investigations in which

- a) distinctions are made among observations, conclusions, inferences, and predictions;
- b) hypotheses are formulated based on cause-and-effect relationships;
- c) variables that must be held constant in an experimental situation are defined;
- d) appropriate instruments are selected to measure linear distance, volume, mass, and temperature;
- e) appropriate metric measures are used to collect, record, and report data;
- f) data are displayed using bar and basic line graphs;
- g) numerical data that are contradictory or unusual in experimental results are recognized; and
- h) predictions are made based on data from picture graphs, bar graphs, and basic line graphs.