

ENERGY TECHNOLOGIES

This recommended list is based upon a classroom size of 25 students. All costs are estimated and should be adjusted and verified with current quotes. No specific equipment vendor or brand names are endorsed due to various possibilities, but school districts should consult with stakeholders to ensure industry-recognized equipment and software are purchased. The intent of this list is to provide school districts with guidance on the equipment needed to cover the state standards for an Energy Technologies program.

CLASSROOM EQUIPMENT**TOTAL: \$16,810**

| QTY | ITEM DESCRIPTION | UNIT | TOTAL |
|-----|--|---------|----------|
| 25 | Student Workstations w/chairs | \$400 | \$10,000 |
| 1 | Teacher Workstation w/chair | \$400 | \$400 |
| 1 | Teacher Computer (enhanced memory/storage, download capable) | \$1,400 | \$1,400 |
| 1 | Presentation Equipment (e.g., interactive whiteboard (IWB), or other interactive display system with software and accessories) | \$3,000 | \$3,000 |
| 1 | Networkable Laser Printer (black/white or color) | \$400 | \$400 |
| 1 | Vertical File Cabinet (lockable) | \$330 | \$330 |
| 2 | Storage Cabinets (36" x 12" x 72") (lockable) | \$300 | \$600 |
| 2 | Bookcases (36" x 12" x 42") | \$115 | \$230 |
| 2 | White Boards (4' x 8') | \$110 | \$220 |
| 1 | Fire Extinguisher | \$130 | \$130 |
| 1 | First Aid Kit | \$100 | \$100 |

PROGRAM EQUIPMENT**TOTAL: \$39,500**

| QTY | ITEM DESCRIPTION | UNIT | TOTAL |
|-----|---|---------|----------|
| 25 | Student Computers (enhanced memory/speed, download capable) | \$1,500 | \$37,500 |
| 1 | Technology Storage/Charging System (optional) | \$2,000 | \$2,000 |

INSTRUCTIONAL MATERIALS**TOTAL: \$4,000**

| QTY | ITEM DESCRIPTION | UNIT | TOTAL |
|--------|--|---------|---------|
| 25 | Student Textbooks (Approved by NDE) | \$100 | \$2,500 |
| 1 | Teacher Textbook Edition and Resources | \$500 | \$500 |
| Varies | Resources (manuals, guides, etc., for multiple types of energy sources and energy codes) | \$1,000 | \$1,000 |

INSTRUCTIONAL SUPPLIES

TOTAL:

\$9,780

| QTY | ITEM DESCRIPTION | UNIT | TOTAL |
|--------|--|---------|---------|
| 7 | Renewable Energy Project Kits (or equivalent) | \$300 | \$2,100 |
| 7 | Basic Soldering Tool Sets | \$125 | \$875 |
| 3 | Cordless Drills (14 volt or higher) | \$100 | \$300 |
| 7 | Variable DC Power Supplies, 18V 0-2A | \$65 | \$455 |
| 15 | Digital Multimeters | \$50 | \$750 |
| Varies | Project Supplies (e.g., light-emitting diodes [LEDs] in various colors, single AAA battery holders, push-button switches, resistor kits and wires, solderless breadboards, alligator leads, electrical tape, sheet metal, heat lamps, soldering supplies etc.) | \$3,000 | \$3,000 |
| Varies | Tools and Hardware (e.g., tape measures, clamp lights and bulbs, adjustable wrenches, wrench sets, wire strippers, needle nose pliers, locking pliers, hex key sets, hacksaws and blades, files and file handles, hickory hammers, drill bits, precision screwdriver sets, S-hooks, utility knives and blades) | \$1,500 | \$1,500 |
| Varies | Computer Accessories (cases, covers, etc.) (optional) | \$500 | \$500 |
| Varies | Personal Protective Equipment (PPE) (gloves, glasses/goggles, etc.) | \$300 | \$300 |

OTHER

TOTAL:

\$300

| QTY | ITEM DESCRIPTION | UNIT | TOTAL |
|-----|---|-------|-------|
| 1 | Occupational Safety and Health Administration (OSHA) Teacher Training | \$300 | \$300 |

CATEGORY TOTALS:

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|--------------------------------|-----------------|
| CLASSROOM EQUIPMENT | \$16,810 |
| PROGRAM EQUIPMENT | \$39,500 |
| INSTRUCTIONAL MATERIALS | \$4,000 |
| INSTRUCTIONAL SUPPLIES | \$9,780 |
| OTHER | \$300 |
| ESTIMATED PROGRAM TOTAL | \$70,390 |