

**SOLAR PV: SILICON may advance the following**  
**ENERGY LITERACY PRINCIPLES AND CONCEPTS**

**1 Energy is a physical quantity that follows precise natural laws.**

**1.1** Energy is a quantity that is transferred from system to system.

**1.3** Energy is neither created nor destroyed.

**1.5** Energy comes in different forms and can be divided into categories.

**2 Physical processes on Earth are the result of energy flow through the Earth system.**

**2.2** Sunlight, gravitational potential, decay of radioactive isotopes, and rotation of the Earth are the major sources of energy driving physical processes on Earth.

**4 Various sources of energy can be used to power human activities, and often this energy must be transferred from source to destination.**

**4.1** Humans transfer and transform energy from the environment into forms useful for human endeavors.

**4.5** Humans generate electricity in multiple ways.

**4.7** Different sources of energy and the different ways energy can be transformed, transported, and stored each have different benefits and drawbacks.

**5 Energy decisions are influenced by economic, political, environmental, and social factors.**

**5.4** Energy decisions are influenced by economic factors.

**6 The amount of energy used by human society depends on many factors.**

**6.5** Social and technological innovation affects the amount of energy used by human society.

**6.6** Behavior and design affect the amount of energy used by human society.