ENERGY STORAGE BATTERY BASICS 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.

1.4 Energy available to do useful work decreases as it is transferred from system to system.

1.6 Chemical and nuclear reactions involve transfer and transformation of energy.

1.7 Many different units are used to quantify energy.

1.8 Power is a measure of energy transfer rate.

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.

4.2 Human use of energy is subject to limits and constraints.

4.6 Humans intentionally store energy for later use in a number of different 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.

5.7 Energy decisions are influenced by social 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.

6.8 Amount of energy used can be calculated and monitored.

7 The quality of life of individuals and societies is affected by energy choices.

7.5 Access to energy resources affects quality of life.