Introduction
Genesis 3, Inc. provides an international forum for continuing education and the establishment of higher standards in watershape design, engineering, and construction. In pursuit of this goal, Genesis hereby publishes this Position Statement regarding energy and resource efficiency.

This Position Statement was assembled with input from leading professionals in the pool and spa industry including individuals that are not members of Genesis. The contributors share a common goal of improving safety, reducing energy consumption, raising the current standards, and building better quality projects. The positions are not biased toward specific manufacturers or products.

This document is not a consensus standard or building code. It has not gone through the consensus procedures of any recognized standards writing authority. Genesis has no interest in pursuing the consensus process that would only dilute these positions with inferior concepts based on specific products, technology, maintaining backwards-compatibility, or other conflicts of interest. Use of this document is completely voluntary.

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Format
There are two columns. The first column clearly and concisely states our position. The second column provides commentary and justification for the corresponding position statement.
Position Statement

2.1 Line Velocities
2.1.1 The velocity limit in the plumbing at the outlets is 6 feet-per-second by code (ANSI/APSP-7). We recommend that the maximum design velocity on the suction side of the pump be limited to 4.5 feet-per-second.

2.1.2 The maximum velocity on the discharge side of any pump shall be 8 feet-per-second maximum. We recommend that the maximum design velocity on the discharge side of any pump be limited to 6.5 feet-per-second.

2.2 Spa Jet Systems
2.2.1 We recommend that spa jet systems are configured with dedicated jet pumps.

2.3 Energy Star
2.3.1 Energy Star listed equipment is preferred over non-Energy Star listed equipment.

2.4 Control System
2.4.1 All pumps and lighting equipment shall be connected to timeclocks or controllers that enable scheduling of the equipment and adjustment of variable
frequency drives for pumps if used.

2.5 Alternative Heat Sources
2.5.1 All pool or spa filtration systems shall include provisions for the connection of alternative heat sources. This shall include 3 feet of pipe before any heater or the rough-in of supply and return lines for the future connection of solar, radiant, or geothermal heating.