

## **Proof-of-Concept: A Fluid-Based Energy System**

A working, fluid-based prototype was constructed to serve as a practical demonstration of a revised thermodynamic framework. The system was built with the assistance of a retired plumber and a construction worker.

- **Objective:** To create a self-perpetuating flow of liquid that could, in a more refined version, be used to drive a generator directly.
- **Core Components:**
  - **Two Reservoirs:** An upper and a lower tank.
  - **Immiscible Fluids:** An improvised combination of oil and distilled water. The principle relies on any two liquids that naturally seek to separate from one another.
  - **Connecting Loop:** The reservoirs are connected by two paths to create a closed loop.
    - **Downward Path:** A simple path allowing oil to fall from the upper reservoir to the lower one, driven by gravity.
    - **Upward Path:** A larger path designed to move oil from the lower reservoir to the upper one. In the initial prototype, this path included a valve and a small Pelton Turbine.
- **Operating Principle:**
  1. The system is filled with oil and distilled water.
  2. Due to the natural tendency of the two liquids to separate, the oil is forced up the larger path towards the upper reservoir.
  3. From the upper reservoir, the oil flows down the other path via gravity.
  4. This creates a continuous, self-perpetuating flow without ongoing external input.
- **Refinement:** It was noted that the Pelton Turbine in the prototype adds unnecessary friction. The ideal application of the principle would be to use the pressure differential created by the separating liquids to drive a generator directly, bypassing the need for a turbine or even gravity if sufficient pressure is achieved. This early prototype, while not perfect, successfully demonstrated the core concept.