



In harnessing the kinetic energy of the suspended timber ribs, SOCiAL HULL adopts the use of 'permanent magnet linear generators' (PMLG). The generators use a neodymium magnet within a copper solenoid which transfers kinetic energy into a changing current (flux) that inturn outputs a voltage. Here we see that when downward pressure is applied (walking), the pulley ropes experience strain forces pulling the magnet through the soleniod. The compression spring acts as a structural member keeping the timbers form. In addition they facilitate high pressure loads and finally increase the number of oscilations maximising electrical energy output.

