

## 1/2 **PORTABLE- POWER SUPPLY FOR FARMER'S WATER PUMP !!!!!**

If you Believe springs can store energy and release, then this idea should not be difficult!!!!



### Solution

This device is based on SPRING over HYDRAULICS with Photo-voltaic for charging the actuator battery. With advancement in machining techniques in Mechanical engineering and material science, It is possible to bring such ideas into reality, which was difficult to imagine few decades back.

The following elements are the part of Energy Storage devices in Mechanical engineering, They are Water column in the form of potential energy, Flywheel for kinetic energy, Springs for potential energy, Molten salts for thermal energy.

Springs are elastic in nature , and tend to store energy when compressed or when stretched. The tension or compression can be released in a sustained manner by means of many mechanism that are available.

The intensity of energy stored in each springs depends on the spring coil and its pitch and the load it can take. In this device The energy stored in the springs are made to

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Creative's profile



**environwatch**  
Mechanical Engineer

Creative's top 5 skills

Product Design