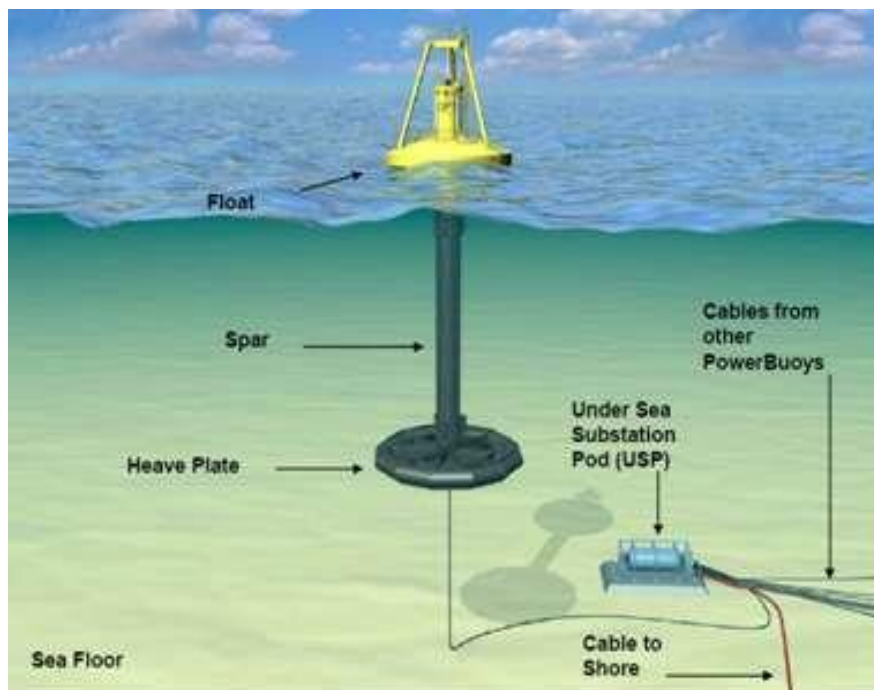


Modelling and control of wave energy converters

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Sources: A Poullikkas- Technology prospects of wave power systems, Electronic J. Energy & Environment, 2014.

One way to reduce the acceleration of climate change is to generate ecological methods to obtain energy. One of these methods, emerging since the last decades, are wave energy converters (WEC), which take advantage of the unlimited power of sea waves. In the image above we see a scheme of how a particular type of WEC works, called Floating-Point Absorber (FPA). The construction of a FPA involves a cylindrical structure with one component relatively immobile as the bottom end, and a second component with movement driven by wave motion as the top end floating buoy inside a fixed cylinder. In our research we study the modeling and mathematical control of this and other kinds of WECs.



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