



Advantages of Autonomous Nodes vs Cables

Advantages of autonomous seismic nodes over conventional cables

- Weight: Recent BP field tests showed 3 times as many crew were required to deploy seismic cables versus seismic nodes in desert
- Environmental impact: Nodes have less impact as they are not all connected by a cable, therefore simple to lay out around and under obstructions
- Better subsurface sampling and redundancy: you can stick a node anywhere. Cabled systems often have coverage holes in areas with many obstructions (mountains, jungle, populated areas)
- Better production rates: Often up to 50% of non-productive time during a land seismic shoot can be caused by trouble shooting cables. A recent BP field test showed 97% reliability of the nodes.
- Survey size: As nodes become cheaper, you could potentially lay out 100's of square kilometers at one time. Cables are limited by availability and transmission losses.
- Safety: less weight and equipment means fewer people in the field handling less equipment for a shorter time