

BENEFITS

*in using HEIC as an alternative solution to
Ground Improvement*

FASTER
STRONGER
ECONOMICAL



Application Benefits of High Energy Impact

1. *40-60% saving in Water requirements – the higher impact energy allows for the maximum dry density to be achieved at moisture levels below OMC. Compaction at 2-4% below OMC is possible.*
2. *Increase the size of the layerworks from the conventional 150-300mm to between 500mm and 1000mm. The net effect is an improved strength profile and increased production.*
 - *500mm Layer: 6,500 – 8,000 m² per shift per plant.*
 - *750mm Layer: 5,000 – 6,500 m² per shift per plant.*
 - *1000mm Layer: 4,000 – 5,500 m² per shift per plant.*
3. *Increased rockfill layers with HEIC not only improves the strength profile and increases productivity but also has the added benefit in that it reduces the amount of crushing required to reduce the maximum particle size. Increased rockfill layers allows for increased particle sizes, up to 2/3rds the thickness of the layer.*



4. *The increased depth of influence in in-situ compaction may eliminate the need to excavate and replace material in thin layers.*
5. *Potential reduction in design layer thicknesses, even complete layers, with improved bearing capacities achieved through deep in-situ compaction.*
6. *Reduction in “black-top” thicknesses due to increased bearing strength achieved through deep in-situ compaction and improved compaction of layers.*
7. *Compaction of a wide range of materials over wider range of moisture content.*
8. *Improving existing on-site materials, eliminating the need to import expensive material.*
9. *Employment of an improved quality control technique (CIR) resulting in improved accuracy and an increased number of correlated results whilst reducing the time required to test and the time required for results to be made available.*

