



The Industrial Solutions Group

Providing World Class, Innovative Solutions

- Process Consulting

'Net-Neutral' Footprint

The Challenge: An International Beverage Company needs to reduce/eliminate its carbon footprint as economically as possible.

ISG's Innovative Solution

The Industrial Solutions Group (ISG) was asked to provide consulting assistance on this plant to help reduce the carbon footprint and ongoing energy costs.

- ISG identified heat sources of low grade head available from the client's current operation to supply a heat pump system.
- ISG reviewed the data, an innovative, high temperature heat pump system to supply temperatures as high as 215°F.
- Recommendations were provided to the client on number, size and holding temperatures for thermal water storage tanks to be used as heat sinks to best optimize energy recovery.
- An RFP was developed and issued to vendors.

Benefits to Client

- The proposed system will **'zero-out'** this plant's carbon emission.
- The proposed system will **reduce operating costs by more than 75%**.