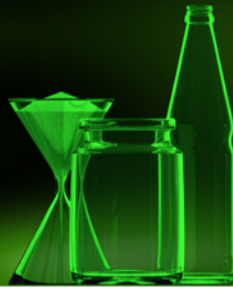


# SOLUTIONS



## NNPB Introduction

### APEGG's NNPB Introduction Programme

APEGG has a proven track record in assisting various customers with the successful introduction of Narrow Neck Press & Blow (NNPB) into their plants.

We have technical and production know-how to assist customers with the conversion from Blow & Blow (BB) or Press & Blow (PB) to NNPB.

The NNPB process often requires new Standard Operating Procedures (SOPs) and, in some cases, new technology to produce containers successfully using the NNPB process.

With the assistance of APEGG, the difference between the BB and NNPB production processes can be easily understood and a smooth implementation of the NNPB forming process can be made.

**Plant Audit:** An initial audit will allow APEGG to understand the customer's existing production capabilities and product quality levels. A review of the existing technology and equipment will also be made to determine whether any new technology is going to be required. A written report will be submitted after the audit and will include all relevant recommendations and suggestions in the areas of technology and personnel training.

**Plant Enhancement:** Following the APEGG report, the customer can put out for tender its requirements to the prospective equipment suppliers. The complete technology and equipment upgrade process can be managed by APEGG on behalf of the customer (from specification to NNPB production). APEGG has a good working relationship with the world's leading machine and equipment manufactures. However, it is important to note that APEGG has no commercial agreements with any suppliers and will recommend equipment best suited for the purpose intended.

**Container & Mould Design:** All necessary design work will be completed by APEGG's own in-house design department. A full container and mould equipment design drawing set will be submitted. APEGG can assist with the procurement of the mould equipment and can manage the whole process if required.

**Production Assistance:** New production parameters for the NNPB process must be set in all areas, including glass composition, melting, conditioning etc. APEGG provide guidance with the adjustment of the production process to achieve the required parameters for stable NNPB production.

**Training:** APEGG provides a formal comprehensive and structured NNPB training programme, which covers forming, mould design, mould repair and container defect topics. The APEGG training programme contains theoretical and practical training days.

The APEGG standard NNPB Introduction programme includes all of the above points. However, we are able to customise the programme according to customer requirements should this be necessary.

V3.1-2014

