Visy PET contracted Build Run Repair (BRR) to deliver Australia’s first large-scale food grade, EFSA and FDA approved, recycling facility producing rPET and rHDPE pellets. The facility has the capacity to take about two billion bottles out of the waste cycle and is part of Visy’s commitment to recycling and reducing waste that goes to landfill.

The facility recycles PET bottles and HDPE bottles into food grade pellets to be re-made into bottles. It is able to take up to 8.5 tph input bales, and to deliver up to 1.5 tph of rHDPE and 2.5 tph of rPET pellets.

The system comprises a PRF (Plastic Recycling Facility) which consists of equipment able to take bales of plastic and separate out PET bottles and natural HDPE bottles.

The PET and HDPE material are each prewashed, grinded into flakes and put through a detergent wash process, a float sink separation step, rinsing and drying. The dry material then goes through a flake sorter for further refinement of quality. The process ends with extrusion into pellet and decontamination.

BRR procured state of the art technologies from Europe to achieve the most efficient and sustainable outcomes possible. BRR integrated the most innovative wash and flake technologies to provide superior environmental efficiencies — lower energy, water and chemical use.

The facility was delivered ahead of schedule and under budget.

**BRR’s scope included the following:**

- Conceptual design
- Procurement
- Construction management
- Start up and commissioning
- Operation ramp-up