PVC Recycling in Wire Harnesses

Under development
Scheduled to be completed in 2030

The revision of European ELV Directive may require 25% recycled resins in vehicles.
Recycled PVC, one of the main materials used in wire harnesses, has been developed and is being used in wire harnesses.

Background or Assignment

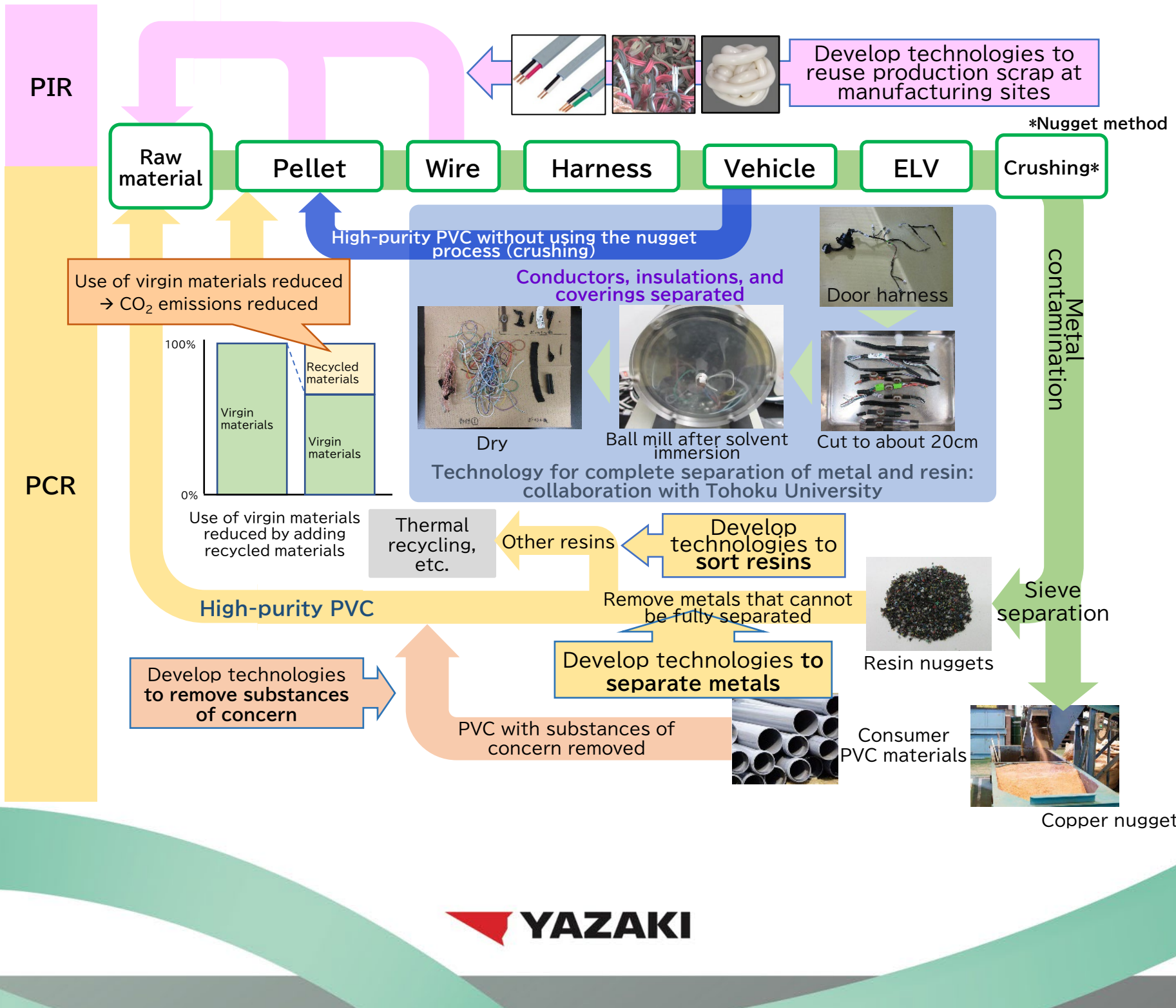
From a circular economy perspective, recycling of vehicle resins has been actively promoted worldwide. Since wire harnesses used in vehicles contain a large amount of resins, it is necessary to consider their recycling for environmental protection.

Solutions to Challenges

1. Resin and metal can be completely separated, but the conventional nugget method, where wire harnesses are crushed to extract resins, resin and metal cannot be fully separated.
→ Enables reuse of the resin as recycled materials

2. It was previously difficult to separate wires from coverings, such as tapes and tubes, but the use of solvents and a ball mill now enables effective separation and sorting.
→ Contributes to reducing waste and improving recycling efficiency

PVC recycling activities



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