REDWAVE – your reliable partner



Process Consultancy

- Definition of requirements
- Material and process flow diagrams
- Reference visits and in-house sorting test



Project Development

- Plant performance and mass balance calculations
- Development of design concept
- Plant engineering
- Cost estimation

Project Management

- Project coordination and milestone monitoring
- Cooperation with partner and subcontractors
- Coordination of supplies

Manufacturing – Supply of equipment

- Technical specification of plant components
- Detailed manufacturing documentation
- Quality assurance





Installation – Commissioning

- Site coordination
- Mechanical and electrical installation
- Commissioning and start-up
- Training of plant personnel

Customer Service

- Remote access for support
- Service contracts
- Preventive services





Our projects

REDWAVE waste glass processing plants have been successfully installed in Austria, Finland, Russia, Italy, Germany, Great Britain, the Czech Republic, Spain, Poland, the Netherlands, Hungary, the USA, France, Tunisia, Ukraine, Sweden, etc.







REDWAVE, a division of **BT-Wolfgang Binder GmbH**

Wolfgang Binder Str. 4 8200 Eggersdorf bei Graz, Austria Tel.: +43 3117 25152 2200 E-Mail: office@redwave.com

WASTE GLASS PROCESSING

www.redwave.com



Waste glass processing for cullet reuse:

- Container glass
- Float glass
- Insulation glass wool
- Foam glass
- Glass beads
- Others (aggregate, abrasives,...)

REDWAVE glass recycling competence:

- Process consultancy
- Material and process flow diagrams
- Plant performance and mass balance calculations
- Plant layout design
- Supply of equipment
- ✓ Installation
- Electrical power supply and plant control system
- Commissioning
- Support of operation



The REDWAVE waste glass sorting process



REDWAVE competences and technologies



Input material

- Material from kerbside collection
- Bottle bank material
- MRF glass material



Preparation

Crushing: Double roll crusher Drying: Fluidized bed dryer Rotary drum dryer Screening: Vibrating screens Flipflop screens Fine screens Metals separation: Cross belt magnets Drum magnets Eddy current separators Organics separation: Airknife separators Zig-zag separators Suction plants



Sorting step 1

Removal of lead glass and glass ceramics: • REDWAVE XRF-G

Removal of plastics and paper: • REDWAVE NIR-G



Sorting step 2, 3, 4

Removal of ceramics and metals as well as colour sorting and colour clean-up: • REDWAVE CS

- REDVVAVE CS
 REDWAVE CX
- REDWAVE CXF

2-way (single eject) and 3-way (dual eject) sorters



Quality control

Process monitoring and control system: • REDWAVE PMCS Sample taking and analysing system:

• REDWAVE SAS



Final product

- Remelting in container glass manufacturing
- Other use (construction industry, aggregates,...)