HARMONY

Recycling rare earth elements from end-of-life NdFeB magnets for industrial use

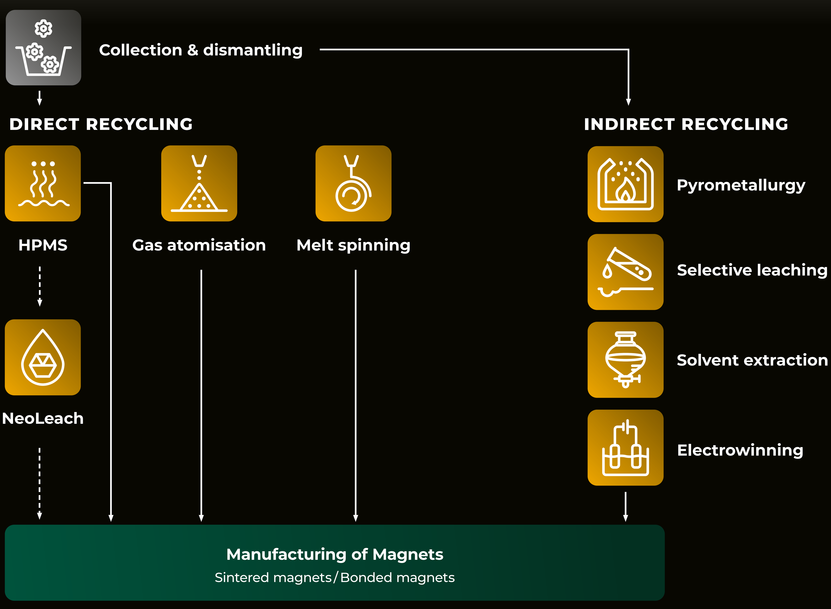
Eight pilot processes.
Two recycling routes.
Three machines built with recycled magnets.

Magnet collection and dismantling

Powder production

Magnet production

Complementary Recycling Routes



Applications

Hydraulic pump motor

Recycled melt-spun powder was injection moulded into bonded magnets, integrated into a hydraulic pump motor and tested for appliance use.

Automotive axial-flux motor

Recycled HPMS powder was processed into sintered magnets, whose properties informed the axial-flux motor design, followed by integration and testing in an automotive demonstrator.

Wind turbine generator

Recycled material was processed into sintered magnets, tailored to generator requirements, then integrated into a wind turbine generator and evaluated through prototype testing.

Scan for more information

www.harmonyproject.eu

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