RISERS

Diagram of 10 high-potential high-priority synergies and resources for IS

Source sector — M (Materials) — E (Energy) — S (Services) — Sink sector

PPP impact: Planet, People, Profit

1

Steel — **BOF/EAF slag** — Cement, various

Recover BOF slag and provide Si, Al, Fe, Ca and Al for clinker raw materials Explore the possibilities to valorise slags from EAF steel production

PPP impact: Planet, People, Profit

2

Various — **Waste heat** — Urban

Recover heat from process industry and use for urban heating

PPP impact: Planet, People, Profit

3

Various — **Plastic packaging** — Cement, various

Use plastic waste from process industry as raw material in cement industry

PPP impact: Planet, People, Profit

4

Urban, various — **Waste steel** — Steel

Recover waste steel for recycling (secondary steel manufacturing)

PPP impact: Planet, People, Profit

5

Various — **Energy data** — Energy

Optimise electricity sourcing and provide flexibility via demand-response

PPP impact: Planet, People, Profit

6

Urban, various — **Biomass** — Refineries

Produce alternate fuels using Fischer-Tropsch process

PPP impact: Planet, People, Profit

7

Pulp and paper — **Waste wood and bark** — Energy

Recover waste wood from pulp & paper sector to fuel combustion plants

PPP impact: Planet, People, Profit

8

Steel — **Refractory materials** — Glass, construction

Recover fly ash and extract mineral products for brick and roof tiles manufacturing

PPP impact: Planet, People, Profit

9

Textiles — **Textiles** — Various

Recover waste steel for recycling (secondary steel manufacturing)

PPP impact: Planet, People, Profit

10

Transport — **EV-batteries** — Energy, minerals

Recover lithium and other rare earth elements, reuse for energy storage

PPP impact: Planet, People, Profit

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