

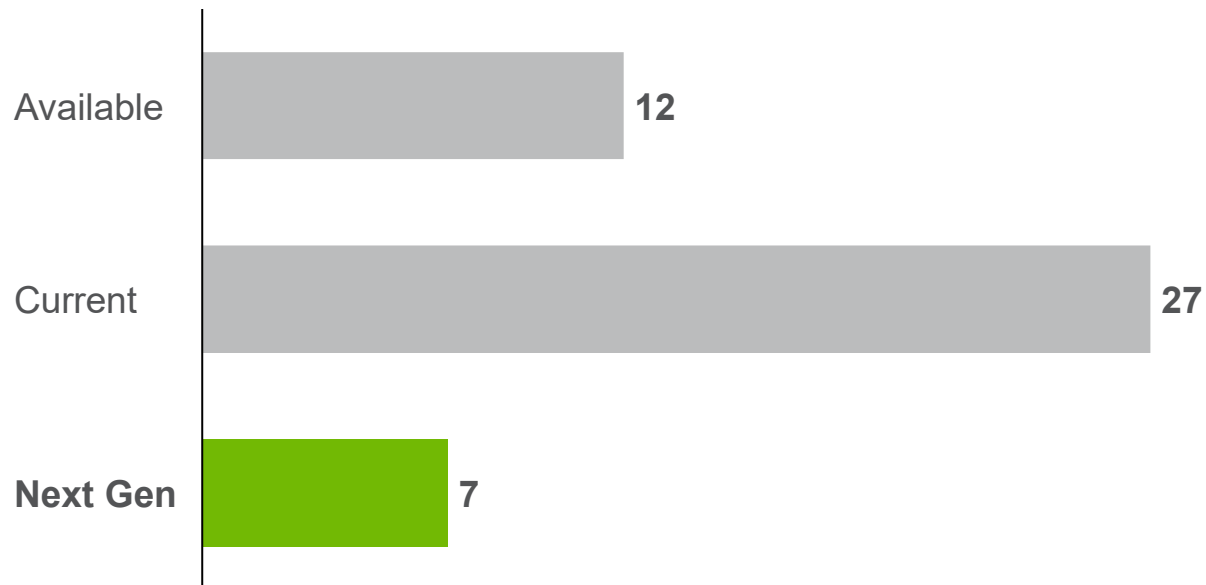
PRECIOUS METALS FOR HYDROGEN

HOW TO ENABLE COST REDUCTION
AND SUSTAINABLE SUPPLY?

Heraeus Precious Metals (Booth 27) European Hydrogen Week | Bruxelles | October 24th-28th, 2022

With current technologies the hydrogen ramp requires more iridium than available
 With next gen Material solutions we close the iridium gap

Cumulative iridium demand/supply for PEM, 2023-30 [mt]*



Available

Iridium potentially freed up for PEM

Current

Currently applied catalyst technologies

Next Gen

Heraeus' Next Generation Catalyst

**Reduction of iridium with Next Gen catalysts for PEM:
 → Demand for iridium until 2030 is reduced from 27 to 7 mt**

*) Capacity numbers and Ir demand based on studies from McKinsey & Hydrogen Council; Expert estimate