

Strong public-private partnership with a focused objective



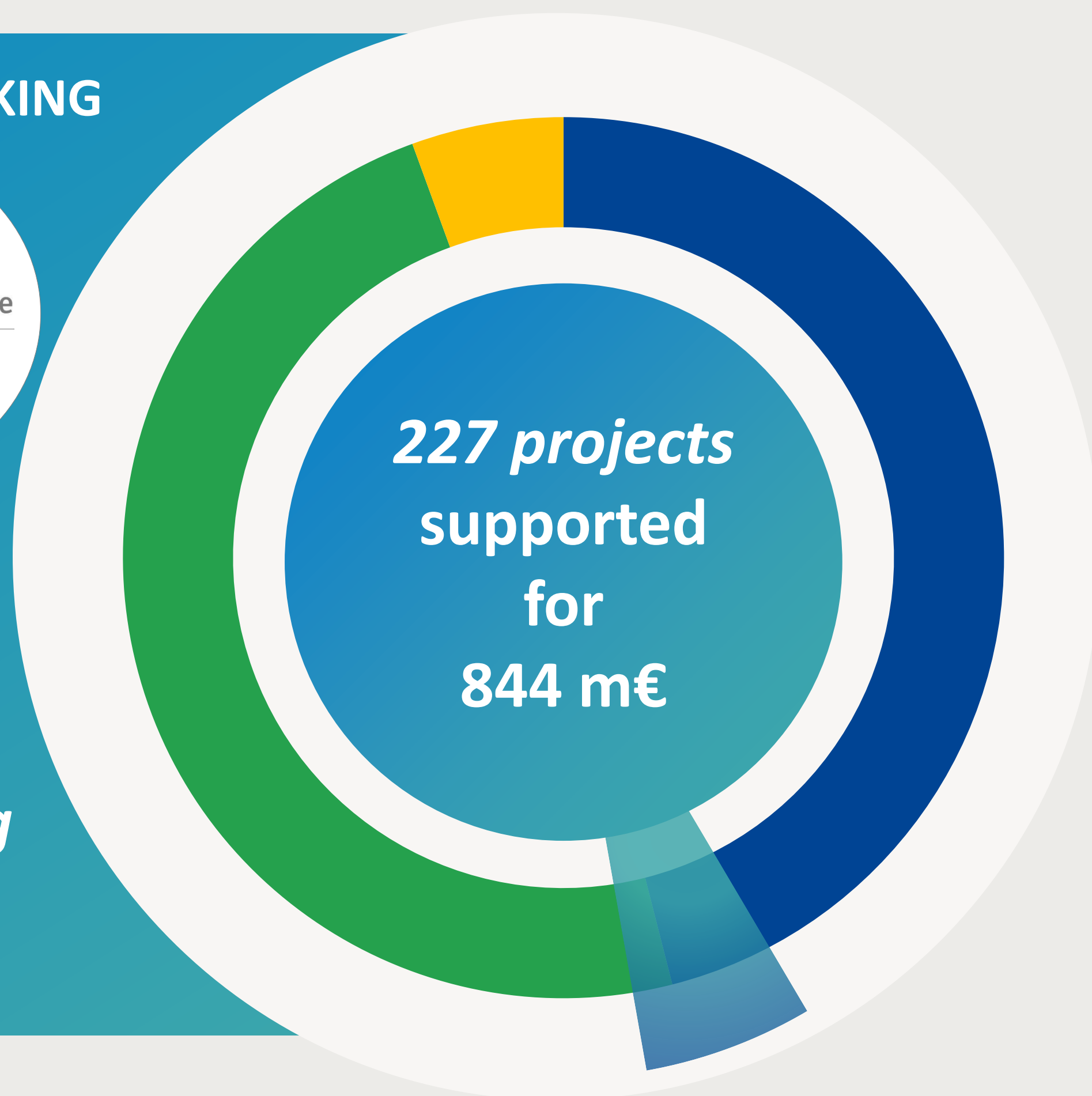
FUEL CELLS AND HYDROGEN JOINT UNDERTAKING



Energy

Transport

Cross-cutting



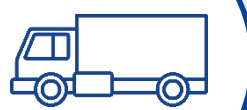
47.5%



401 million euros

128 projects

42%



353 million euros

59 projects

5.5%



47 million euros

37 projects



5%

42 million euros

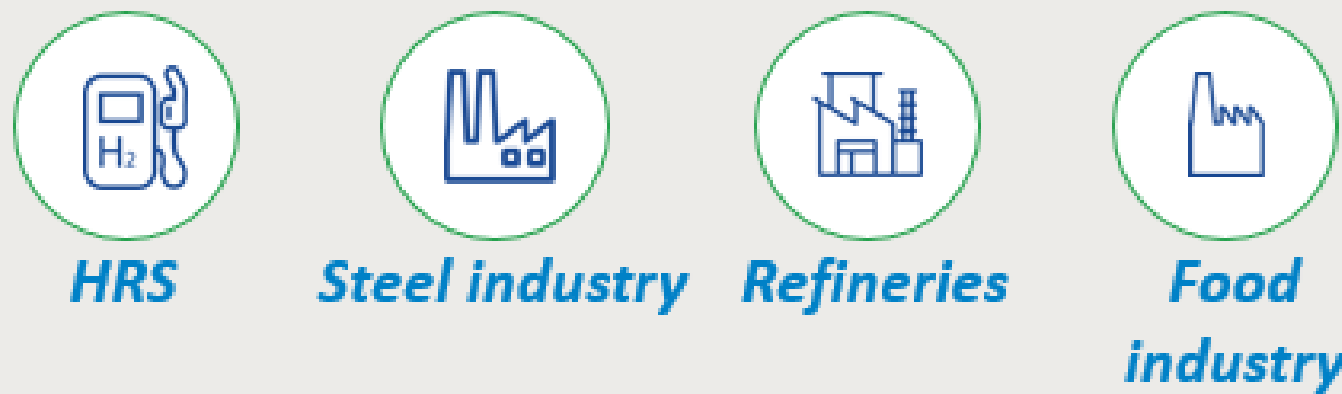
3 projects

Similar leverage of other sources of funding: 886 m€

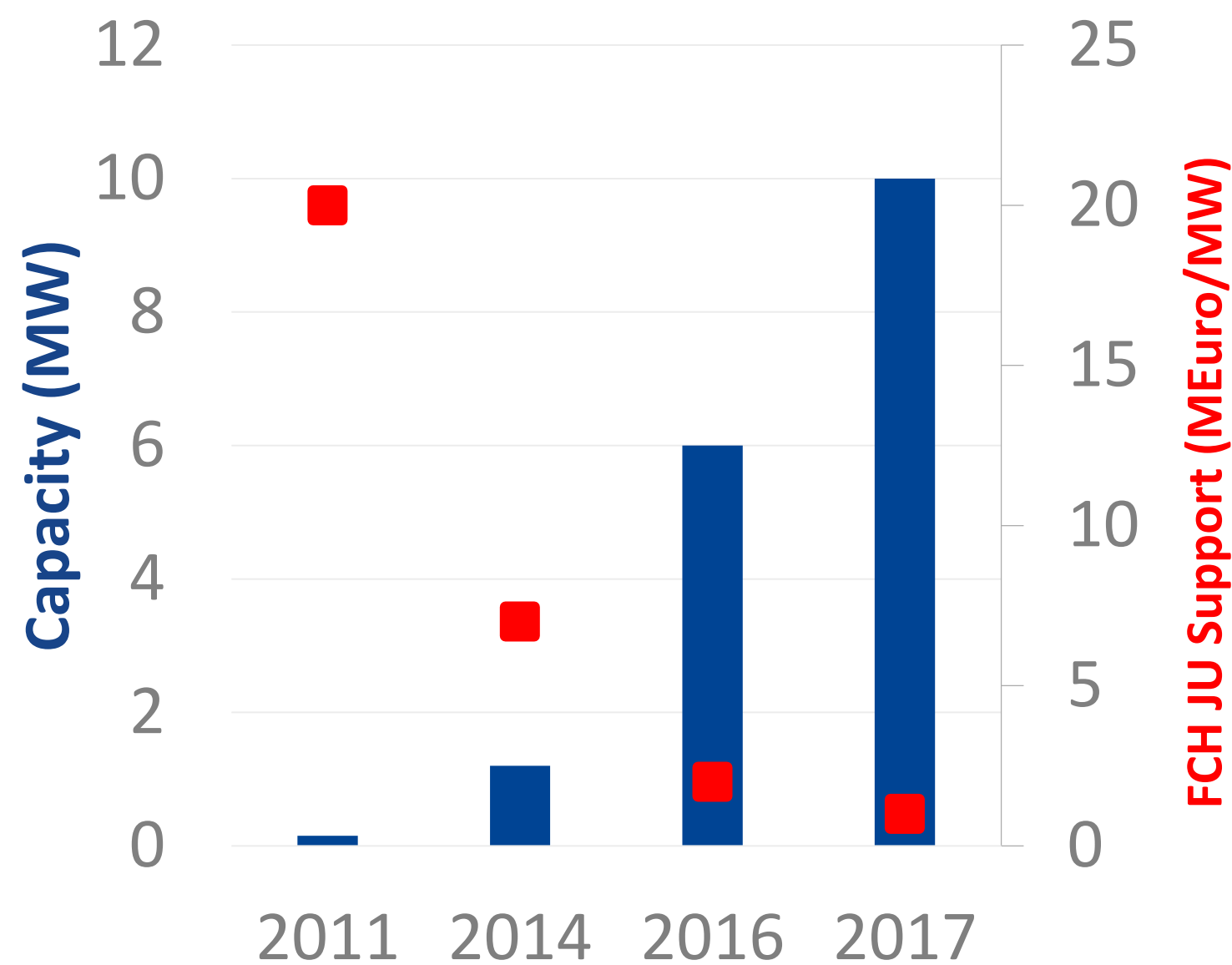


Electrolysers: ready for commercialization

scaling up to great capacities while reducing costs



Electrolyser Demo Projects




(Europe)

FT FINANCIAL TIMES
World business newspaper

Industrials
Austrian steelmaker Voestalpine to test coal-free blast furnace

MICHAEL POOLER

The Austrian steelmaker Voestalpine is to build an experimental facility for producing hydrogen with the aim of...

technology and economics at scale are unproven... it will have a long development and thereby investment period."
Other steel companies, including Posco of South Korea and Sweden's SSAB, have launched initiatives to develop hydrogen-based steelmaking, though none are thought to have yet become a commercial reality.
Voestalpine last year opened a \$740m plant in Texas that makes hot briquetted iron, a pre-material sometimes used in steel production. The facility lowers carbon emissions by using natural gas instead of coking coal.
Some industry experts are sceptical about the economic feasibility of new steelmaking technologies, particularly

