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The road to climate neutrality in industry

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Our commitments to reaching the Paris Climate Agreement

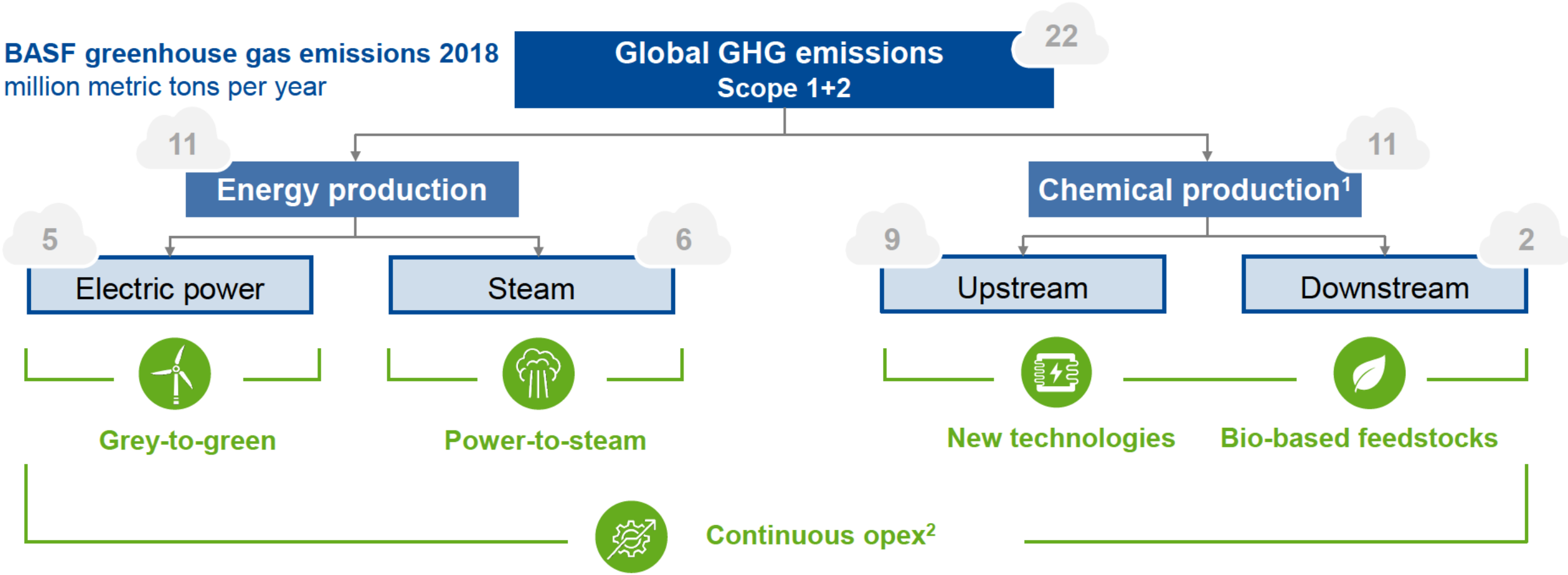
25%
CO_2 emissions reduction
(compared with 2018)[1]

net zero
CO_2 emissions[1]

[1] Scope 1 and Scope 2; 2030 target compared with 1990: 60% CO_2 reduction

No downstream decarbonization without upstream decarbonization

BASF greenhouse gas emissions 2018
million metric tons per year



[1] Includes emissions from process energy [2] Operational excellence measures

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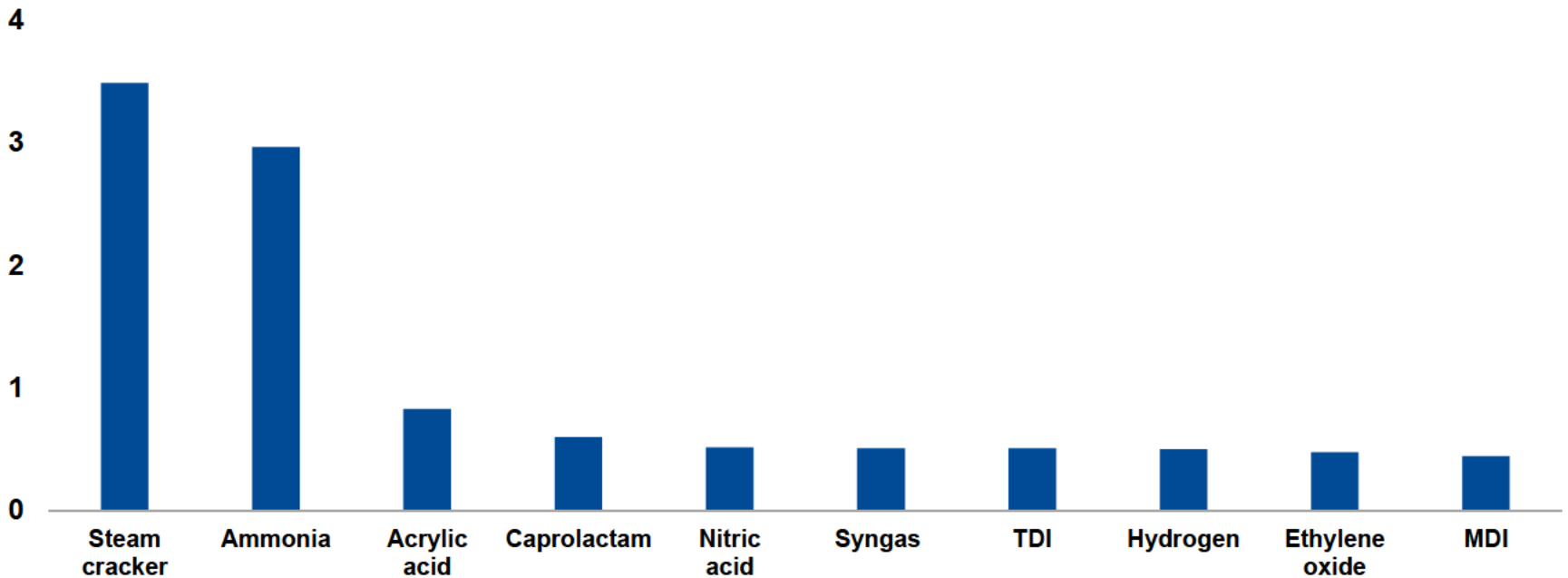
Ten base chemical production technologies cause the majority of BASF's CO_2 emissions

Greenhouse gas emission profile of BASF technologies

Energy and chemistry emissions, million metric tons per year[1]



BASF has identified its CO_2-intensive processes and is addressing them

[1] Based on nameplate capacities, excluding at-equity consolidated companies

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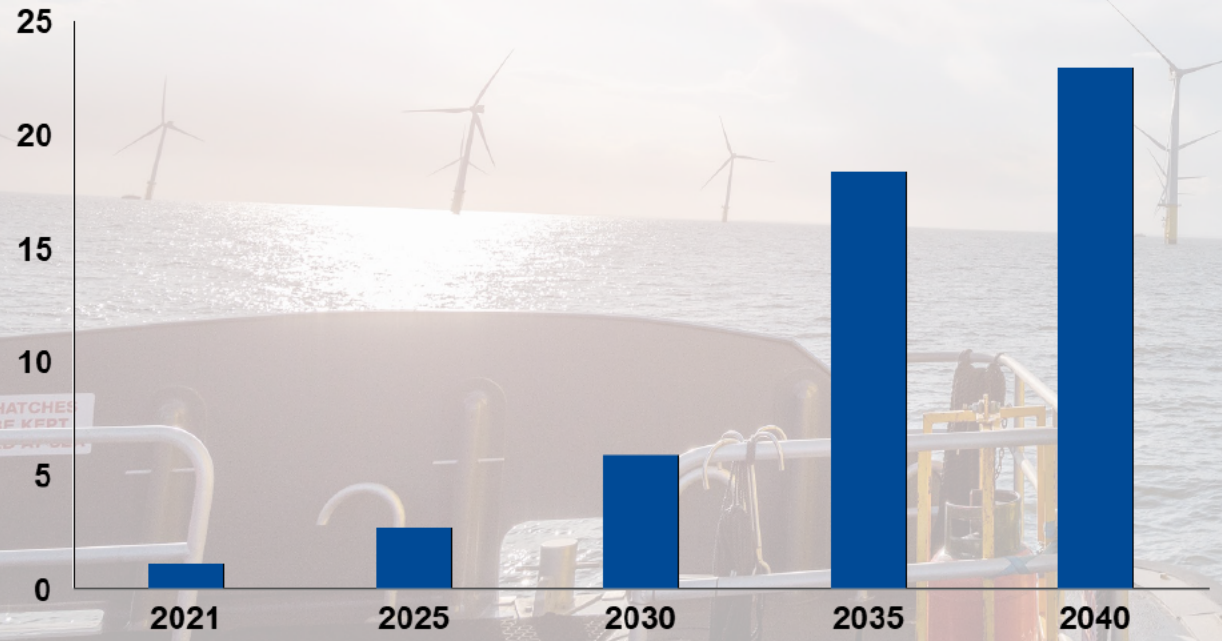
The ultimate lever for CO_2 reduction is electrification with renewable energy

BASF's additional green power demand for large European sites
Ludwigshafen, Antwerp and Schwarzheide, terawatt hour per year



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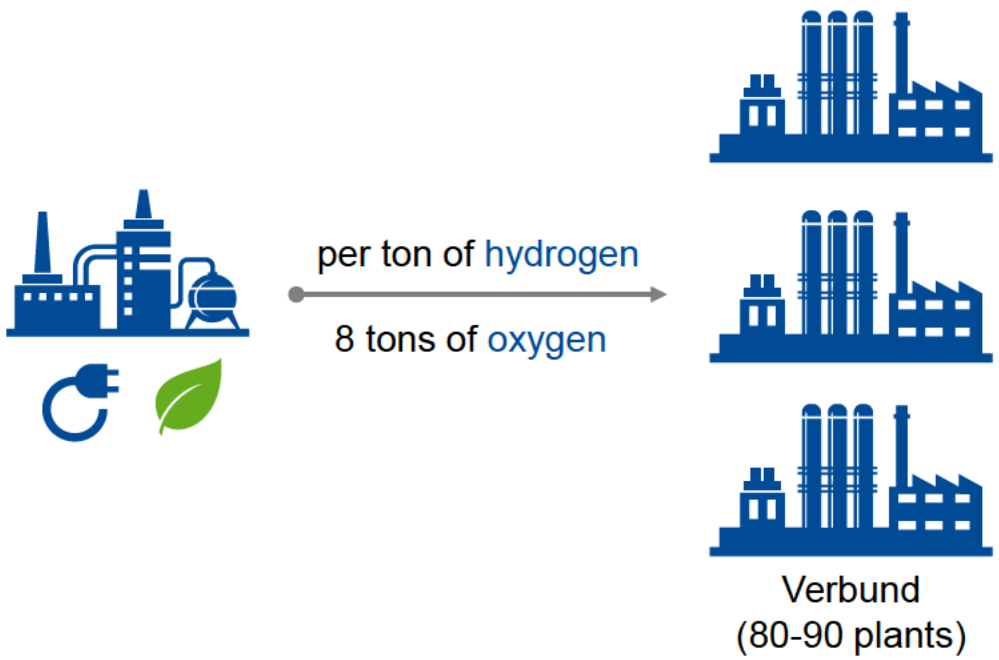
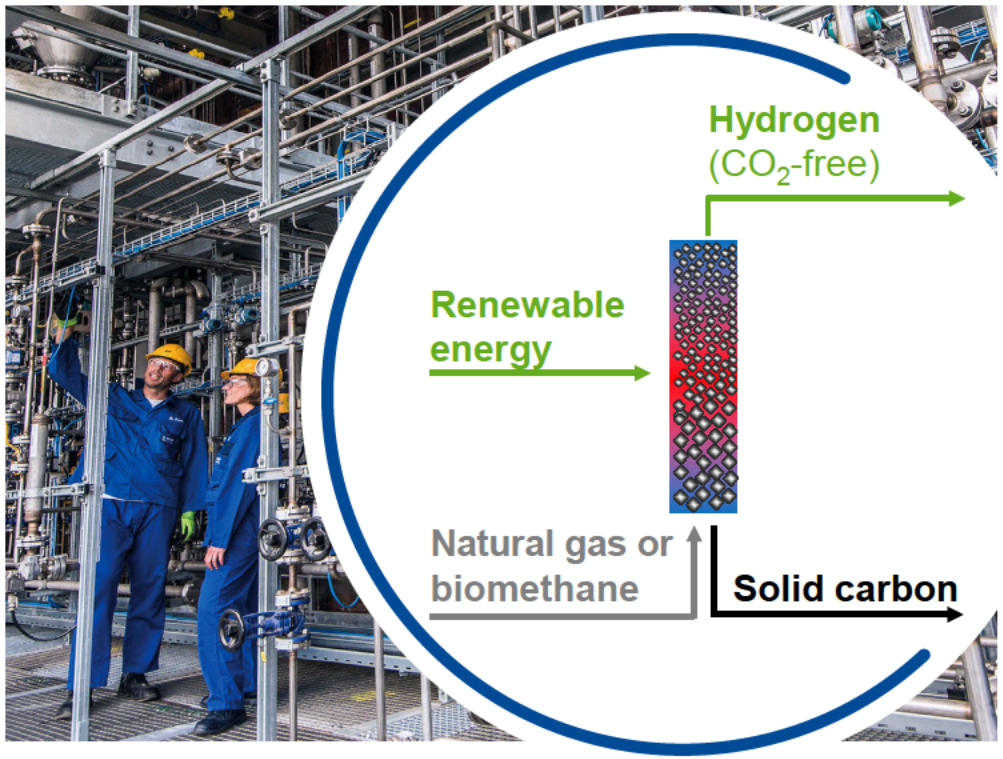
New Technologies: Example Hydrogen

Water electrolysis (TRL 8-9):



Methane pyrolysis* (TRL 5):



*development in a project funded by the Federal Ministry of Education and Research (BMBF)

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The transformation requires a supportive legislative framework - nationally / regionally designed, globally aligned

- **Cooperation:** Ensure close interaction between policy makers and business to support the realization of the reduction targets
- **Competitiveness:** Design a framework that strengthens industry through predictable climate and energy policy, encouraging regional industrial transformation, without hampering global trade
- **Innovation:** Incentivize large-scale investments in CO_2-neutral production technologies – serving the transformation globally
- **Infrastructure:** Speed up capacity expansion for generation and transportation of electricity from renewable energy sources and hydrogen to deploy the potential of countries and enable cost-efficient climate protection

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