

The pit stop to cut your carbon footprint.

Discover your pit's decarbonization
potential via our one-month study.

engineering.tomorrow.together.



thyssenkrupp



Put a stop to irresponsible inefficiency



The Grand Prix begins in dry conditions. On lap 10 a sudden shower necessitates a change of tires. One after another, F1 cars come screaming into the pits and highly skilled teams of technicians spring into action. A pit stop always marks a significant change of strategy.

The global market for raw materials will continue to grow in decades to come. But here too, the conditions have changed. What used to be a dry, fast track has now become wet and slippery. The answer to this environmental challenge is the new strategy of a responsible mining approach that will reduce your environmental footprint, and in particular cut your carbon emissions.

At thyssenkrupp we have developed the technology you need to improve your carbon footprint by enhancing your pit's energy efficiency and reducing your operating costs. The path to more efficient and responsible mining operations starts with a one-month study that will reveal your pit's potential.

**It's high time
for a decarbonization
pit stop.**

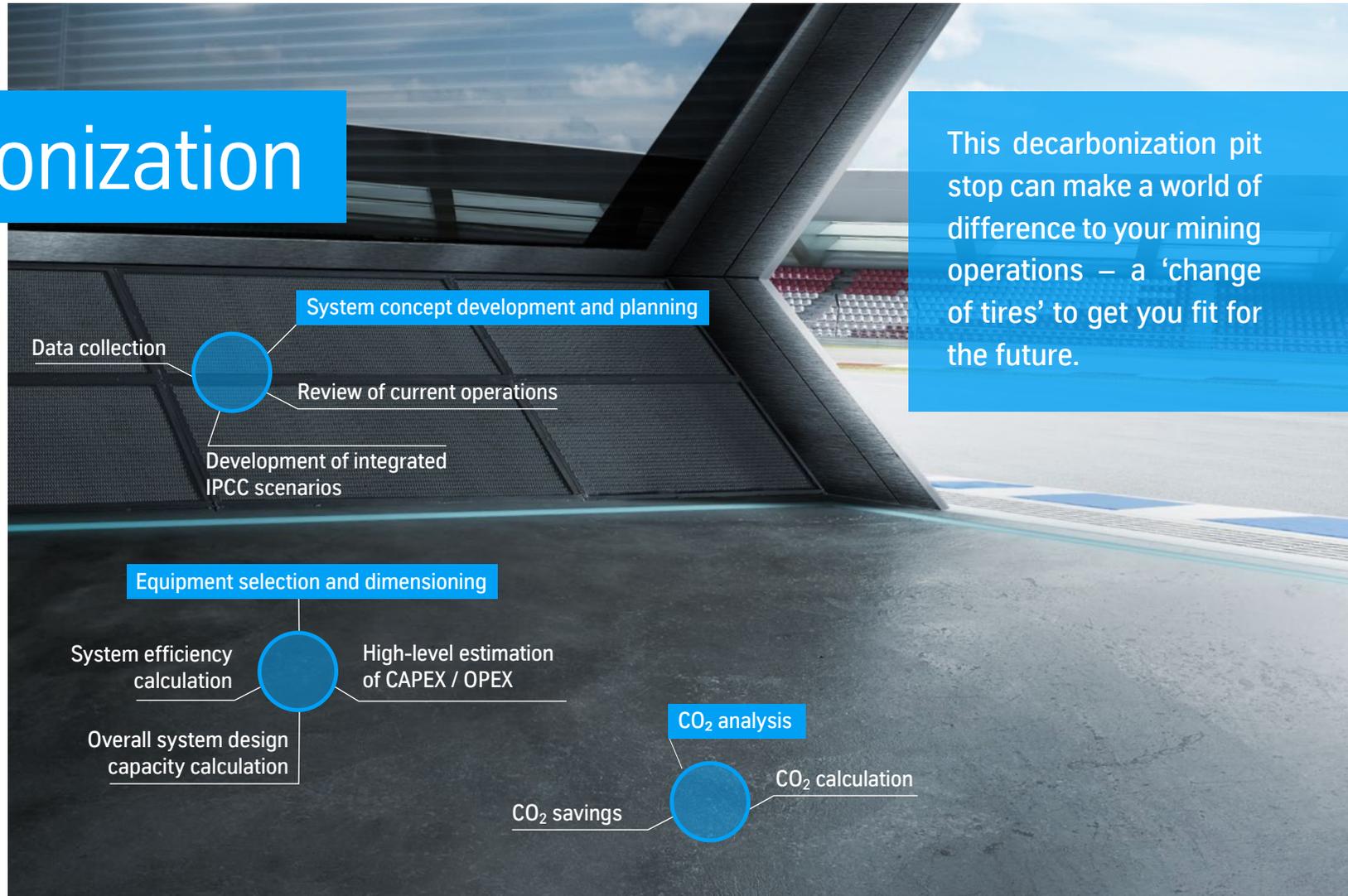


The decarbonization pit stop

Our specialist mining, mechanical and electrical engineers will conduct a month-long, time- and cost-efficient study with your mine planning team to show you the possible benefits of introducing continuous open-pit mining technology.

The assignments our team will typically carry out are detailed on the right.

This decarbonization pit stop can make a world of difference to your mining operations – a ‘change of tires’ to get you fit for the future.





Switching from EPCC to IPCC

Reductions in
CO₂ emissions of

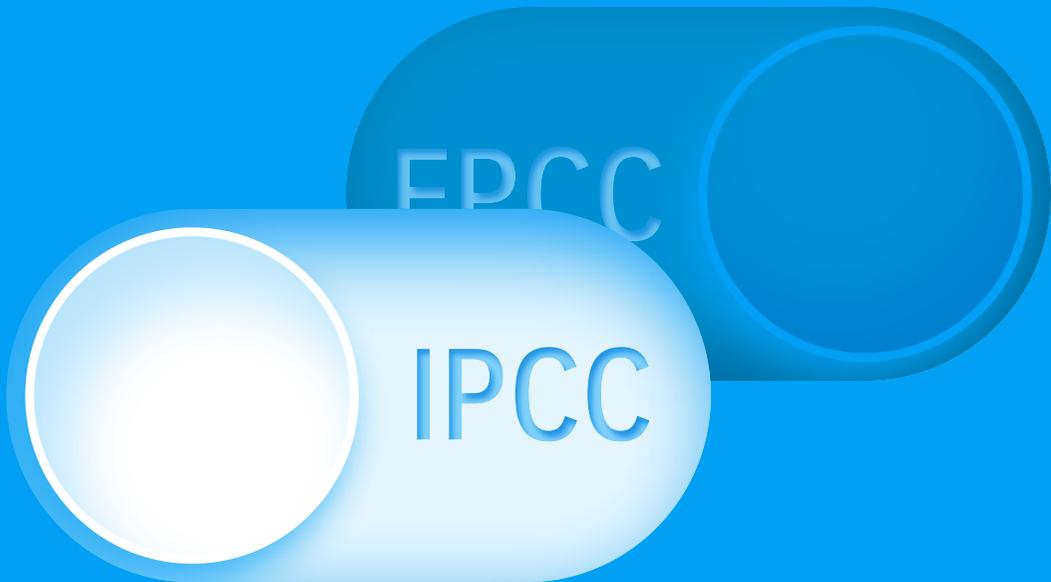
50,000–150,000

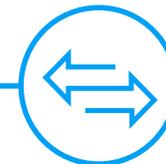
metric tons a year possible

Lower OPEX

through more energy savings

The implementation of an IPCC system in hard-rock operations in open pit mines requires a comprehensive planning approach. At thyssenkrupp we have developed a method of calculating energy efficiency and CO₂ emissions based on the physical interdependencies of horizontal and vertical transport of material, extraction, crushing and acceleration. The energy benefits our IPCC technology brings are based on calculations and case studies showing that the mechanical energy required to transport material on belt conveyors is much less than that required for truck transportation.





Solve the IPCC puzzle

Continuous truck loader



Fully mobile crushing plant



Truck



Shovel



Low-profile semi-mobile crushing station /
Low-profile truck dump station



Relocatable ramp conveyor



Shiftable dump conveyor



Tripper car



Spreader



Dumping system



Transfer conveyor





The benefits of 'new tires'

Just like in a real Grand Prix a timely change of tires to suit more challenging conditions can make all the difference between winning and losing. At thyssenkrupp we believe that our IPCC approach – the introduction of continuous open pit mining technology – is just such a winning 'change of tires'.

The following factors will give you a clear run to enjoy the benefits of reduced CO₂ emissions and lower operating costs:



To profit from our pit stop strategy the first step is to contact us and book our one-month study. This tactical move will make all the difference on the next laps of your highly competitive race.



For more details of our IPCC race strategy, your pit optimization and exemplary case studies, simply get in touch with us:

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