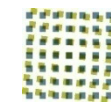


Case study

Exemplary case study adapted from real world data



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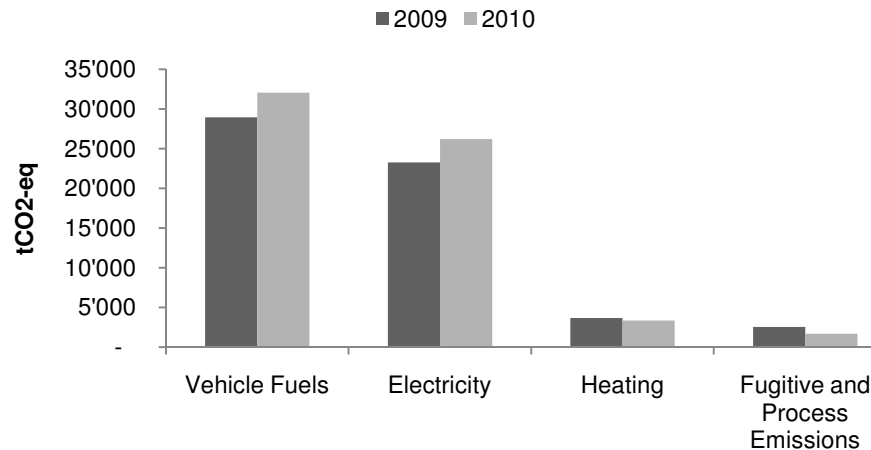
Key levers

Globally, Company XYZ's key levers for CO₂ emission reduction are fuel and electricity consumption – especially as these emissions have increased compared to the previous year.

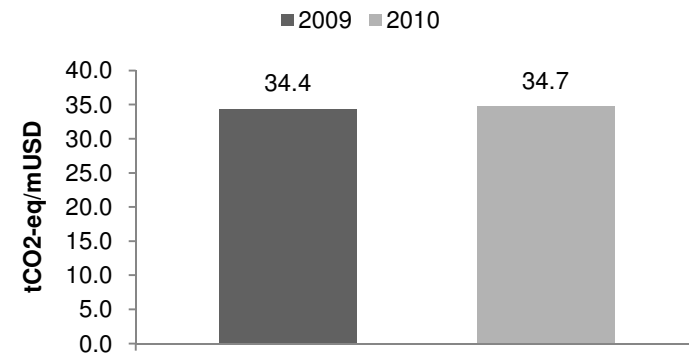


Yet, the main cause for the emissions rise can be assigned to increased revenue in 2010 compared to 2009. The relative CO₂ intensity per revenue has therefore remained steady.

Global Scope 1&2 emissions by category

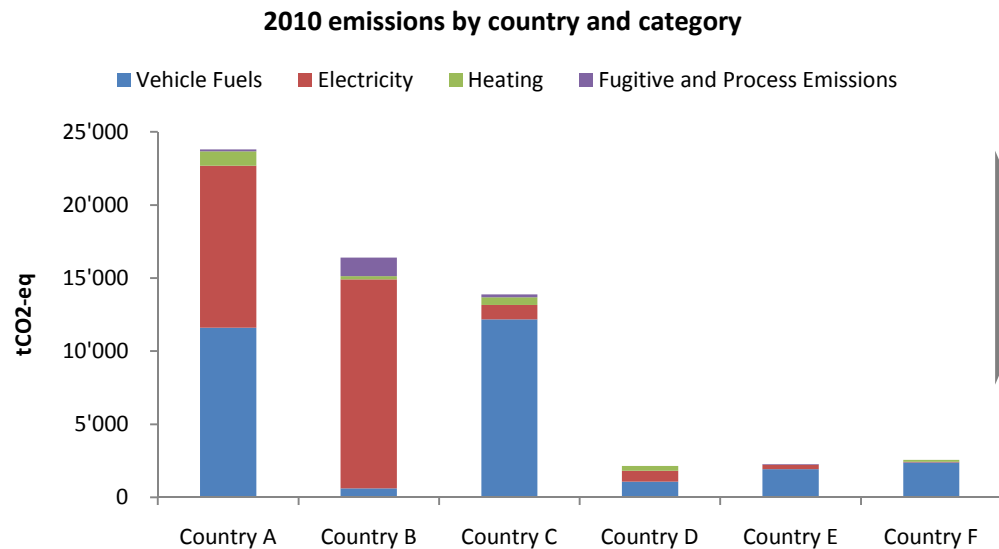


Global Scope 1&2 emissions per revenue



Geographic distribution

A look at the geographic distribution reveals that over 80% of all emissions are from three key countries. Even more so, the emission sources vary significantly among these three countries. In case of Country B, for example, electricity is the single most important source of emissions while Country C's emissions are virtually all from vehicle fuel consumption.



Concerted action could initially focus on the top three countries with specific initiatives each depending on the split of emission sources

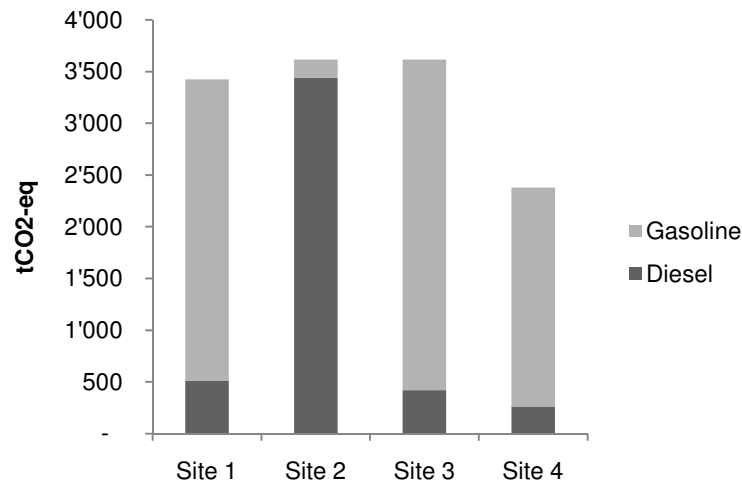
Fleet policy

A closer look at Country A shows that three of the four sites use mostly gasoline while one site consumes virtually only diesel. Yet a second analysis shows that the split by vehicle type is very similar across all three sites.

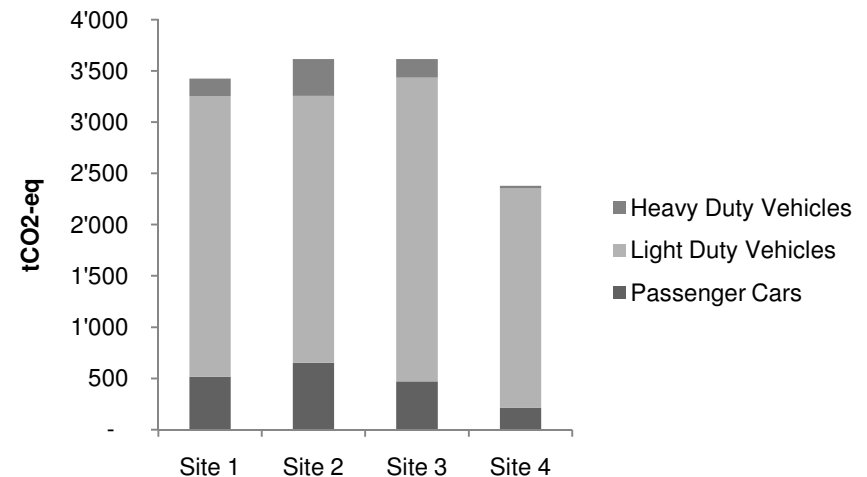


As a consequence, three sites seem to be running light duty vehicles on gasoline, which would be much more fuel efficient on diesel. The current fleet policy of Site 2 could therefore be applied to the other three sites as well.

2010 split Diesel vs Gasoline in Country A



2010 split by vehicle category in Country A



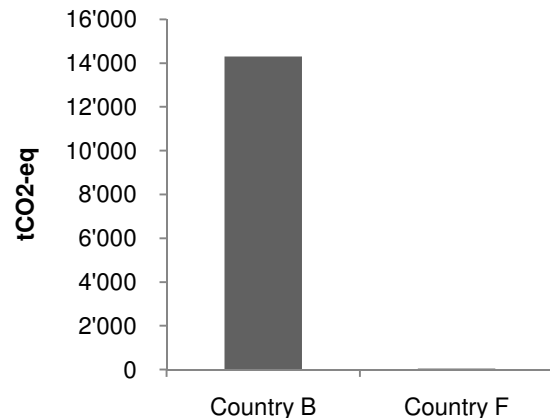
Electricity

Initial analysis showed that Country B has the highest emissions from electricity usage. While this is a clear sign to initiate reduction efforts there, a view on CO₂ emissions only would miss out on further energy cost savings opportunities.

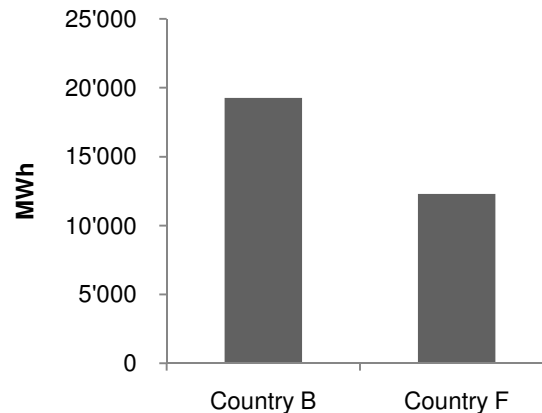


In case of Country F, CO₂ emissions from electricity usage are virtually zero due to the specific electricity grid mix in that country. Analysis of actual energy consumption revealed that Country F is a large electricity consumer and thus energy efficiency initiatives offer significant cost savings. In addition, electricity consumption per floor area allows prioritization of individual sites.

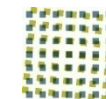
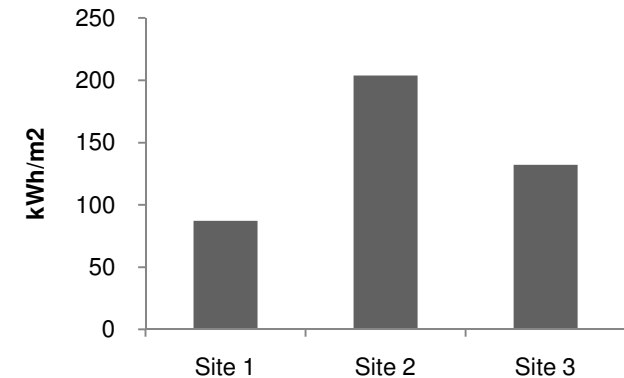
2010 electricity CO₂ emissions



2010 electricity consumption



Electricity consumption per floor area in Country F



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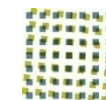
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