



EnerFuture MACCs

The unique Online Service providing
Marginal Abatement Cost Curves

What are the future CO2 emissions reduction potentials and what are their costs across economic sectors?

To answer this question, Enerdata has leveraged 30 years of forecasting expertise and its globally recognised POLES model to create a NEW, UNIQUE ONLINE SERVICE offering instant access to long-term Marginal Abatement Cost Curves.

What are MAC Curves?

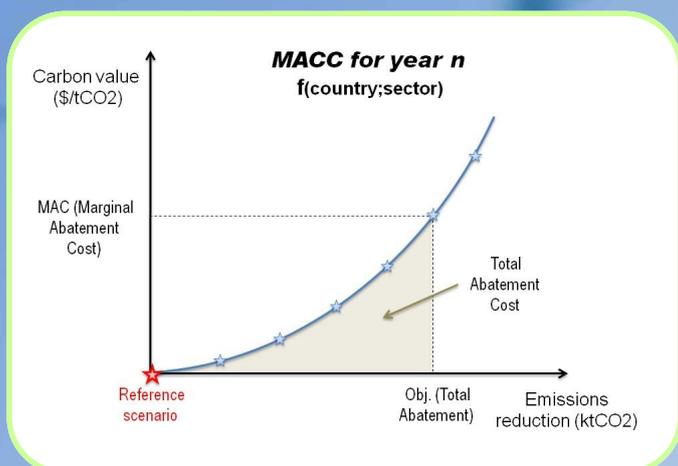
Marginal Abatement Cost Curves (MACCs) reflect the different levels of emissions reductions that can be reached at various carbon price levels in a given year, a given country and a given sector. All MACCs are derived from a fully explicit baseline scenario.

Who needs MAC Curves?

- Government Agencies - shape CO2 mitigation policies and set targets
- Energy Companies - evaluate future position vis-a-vis carbon constraints
- Industry - help determine carbon strategy: emphasise carbon trading or emissions reduction?
- Energy Traders - evaluate future CO2 emissions credits, prices and volumes

Key Features

- ➔ Long-term Marginal Abatement Cost Curves (2015, 2020, 2025, 2030, 2040, 2050)
- ➔ Output data: projected CO2 reduction according to carbon price
- ➔ 65 countries & regions covered
- ➔ CO2 emissions by sector aggregates: power, industry, transport, residential & services, total CO2
- ➔ MACCs generated by the globally recognised POLES model
- ➔ Using 2 current EnerFuture scenarios: Recovery & Depression
- ➔ Sector details: Energy, industry-combustion, industry-processes, residential & services, transport (optional)
- ➔ Other available Greenhouse Gases from industry and energy sources: CH4, N2O, SF6, HFC, PFC (optional)



MACCs sector details (optional)

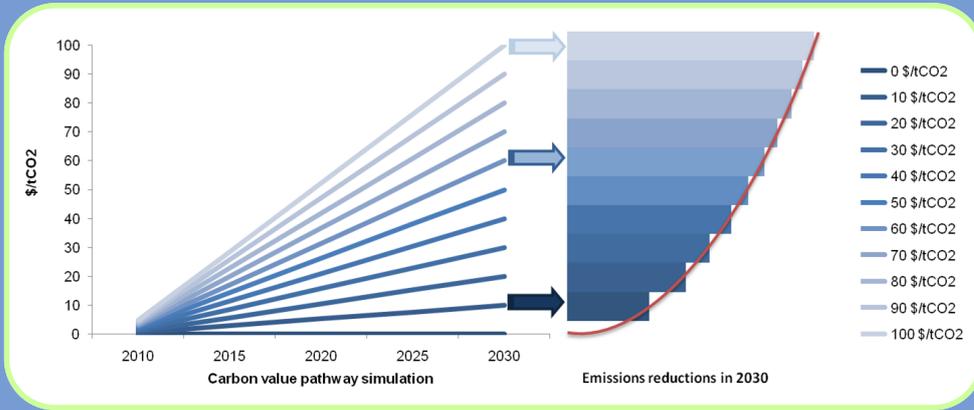
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|------------------------------------|---|
| Energy: | Power generation, Other energy transformation |
| Industry - combustion: | Steel, Non-metallic minerals, Chemistry, Other industry |
| Industry-processes: | Steel, Non-metallic minerals, Chemistry |
| Residential & Services: | Households, Tertiary, Agriculture |
| Transport: | Road, Air, Other transport |

The energy system that provides the basis of the MACCs does not include a GHG reduction policy (as described in EnerFuture's Recovery & Depression scenarios). From this reduction-less and cost-less pathway, the MACCs establish, through a sensitivity process, the responses of the energy model to various shadow carbon prices demonstrating the intensity of a climate policy. At each step of the calculation, emissions reductions as compared to the baseline scenario are calculated for all economic sectors and all regions.

In order to have sufficient details on abatement strategies at low carbon values, the calculation step is 5\$/tCO₂ between 0 and 100\$/tCO₂. At high emissions reduction levels with a limited number of points, the calculation step is 20\$/tCO₂ between 100\$/tCO₂ and 400\$/tCO₂.

Key Benefits

- ➔ Get data and insights from one of the few recognised MACCs experts in the world
- ➔ Benefit from the time-tested and reputable POLES model
- ➔ **Unique!** Have instant, online access to MACCs
- ➔ Receive MACCS seamlessly integrated into the EnerFuture service, or as a stand alone service



One click access to our web portal

Seamless integration between the MACCs and EnerFuture interface

Scenarios selection

Access 65 countries/regions

Up to 31 different data series

Need further insight?



If you need a more integrated view of the future market, Enerdata offers its GHG Mitigation Toolbox as a consulting service. Using a variety of tools, Enerdata is able to integrate its MAC Curves in order to generate market outlooks for the advanced stages of your organisation's carbon reduction strategy and implementation process.

One such tool is the Carbon Market Analysis Tool service. This service will help you evaluate carbon trading strategies. It integrates multiple MACCs, and allows you to see how a change in carbon legislation can impact outputs across the entire market.

HOW TO ACCESS?

A 12 month subscription allows you online access to regularly updated information

Please contact our commercial team to subscribe to the EnerFuture MACCs service.

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