EfficiencyReport

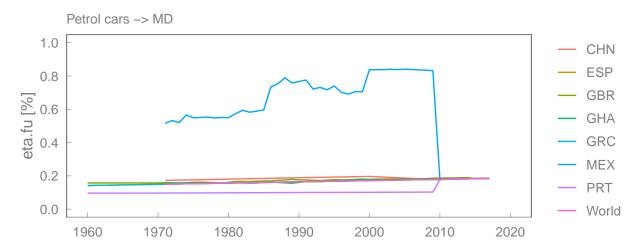
Zeke Marshall

2020-09-28T09:03:02+00:00

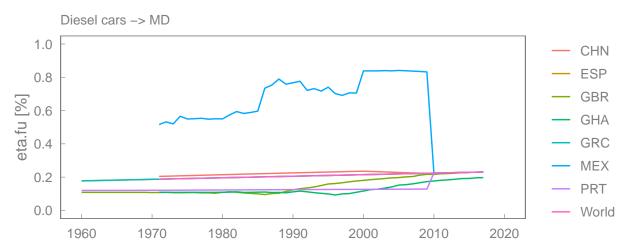
Introduction

This report shows graphs of all final-to-useful energy efficiencies of machine-useful work product combinations. Note that numbers following "##" are the row number in the EfficiencyGraphs data frame.

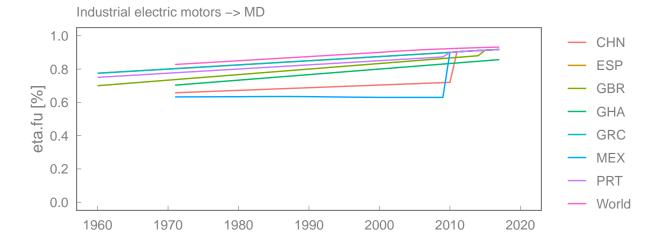
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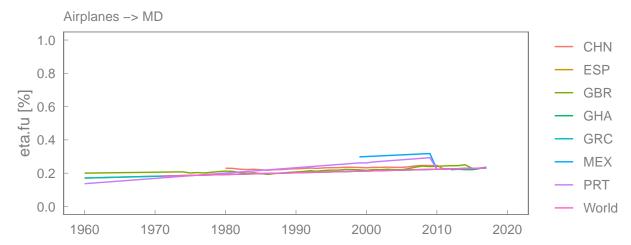
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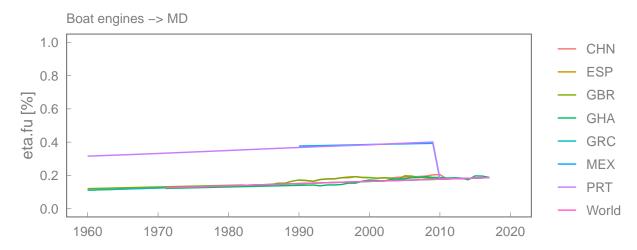
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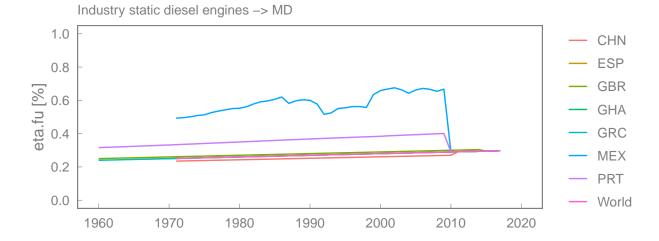
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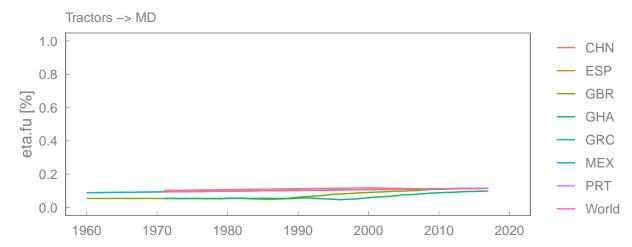


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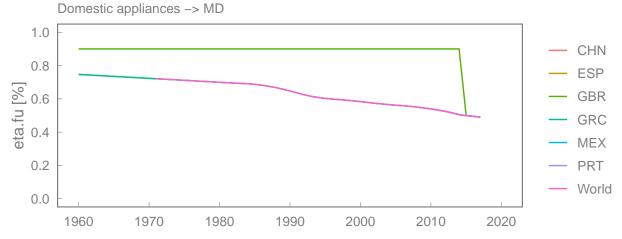


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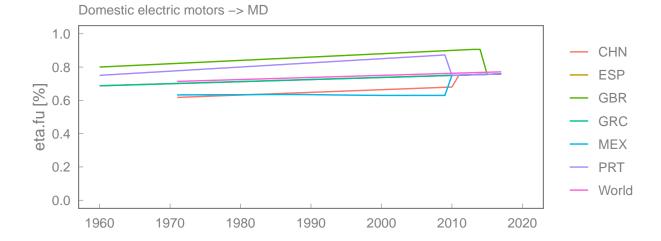
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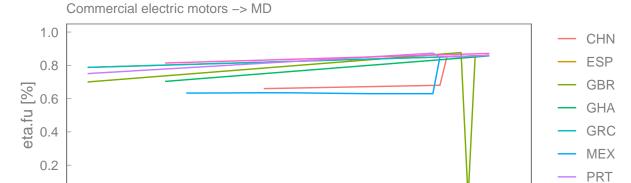




[[9]]



[[10]]



1990

2000

2010

2020

World

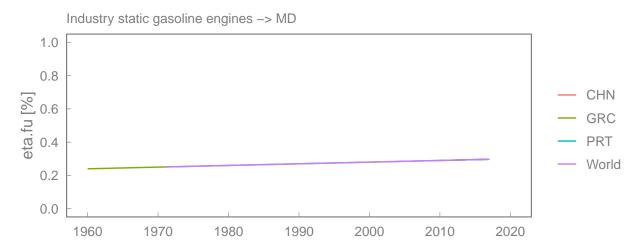
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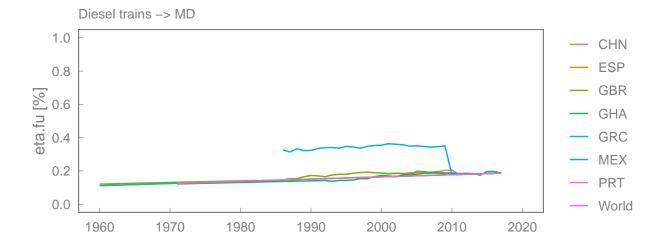
1960

1970

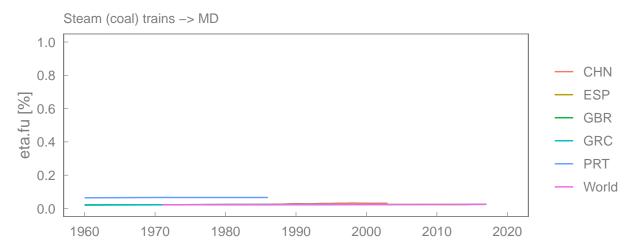
1980



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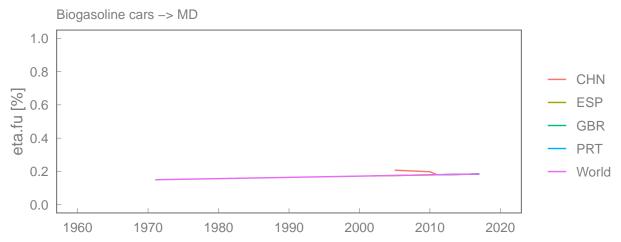


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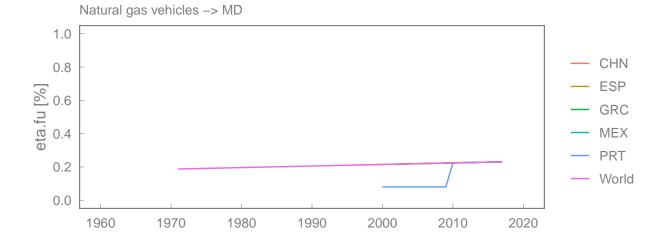


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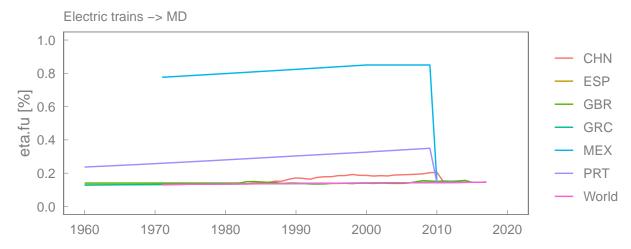
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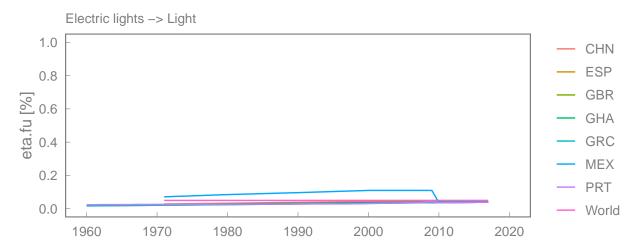
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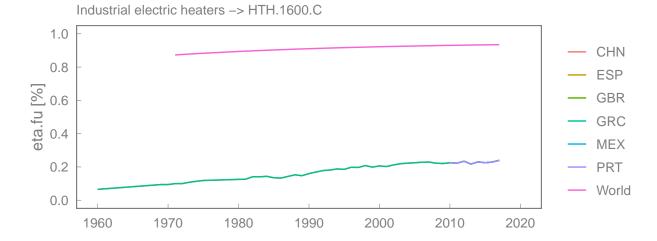
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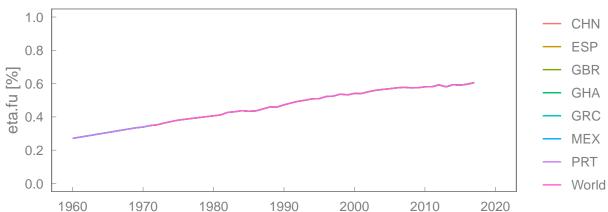


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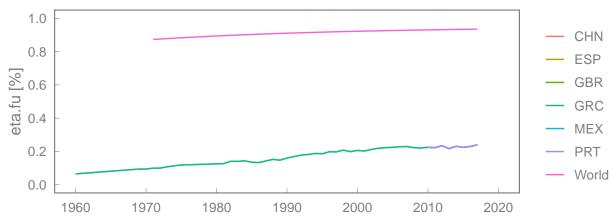
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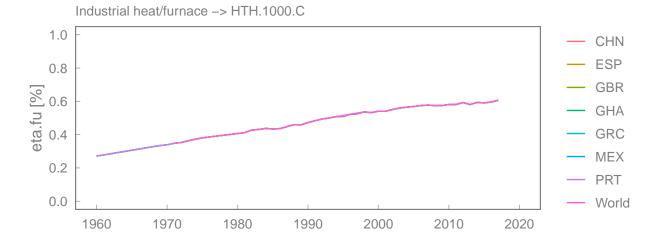


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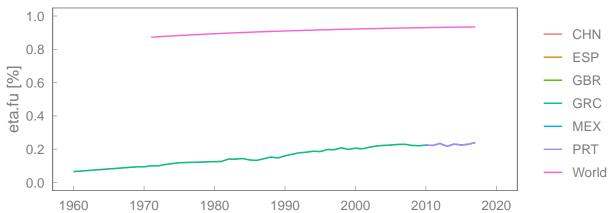


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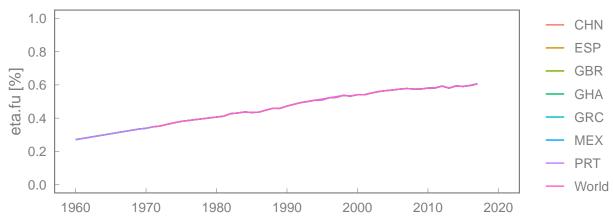
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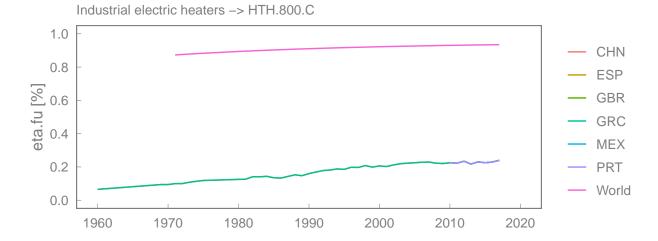


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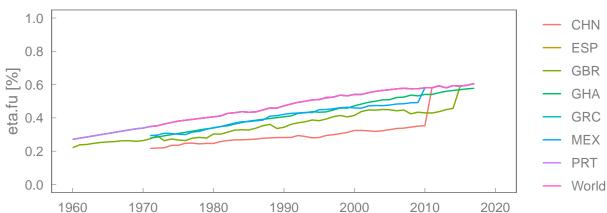


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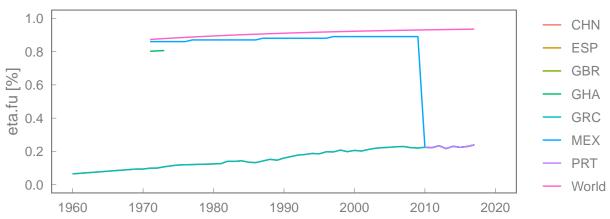
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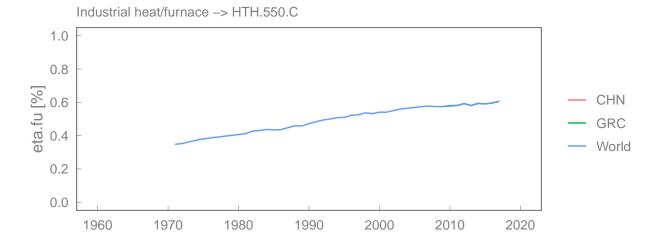


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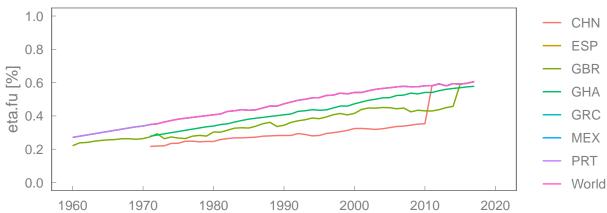


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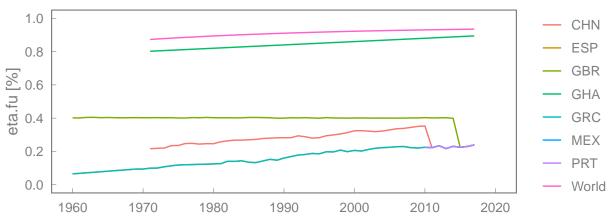
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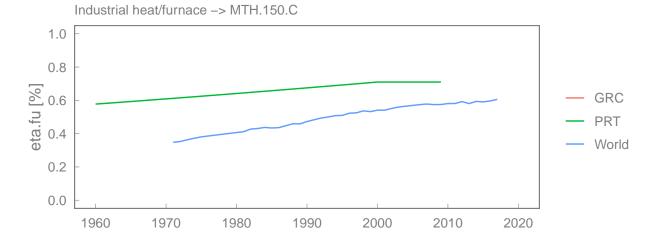


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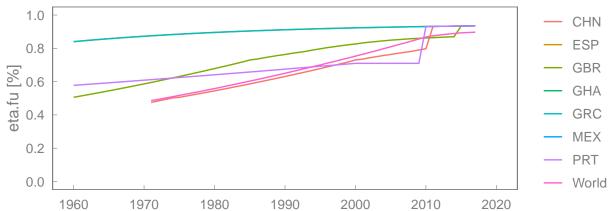


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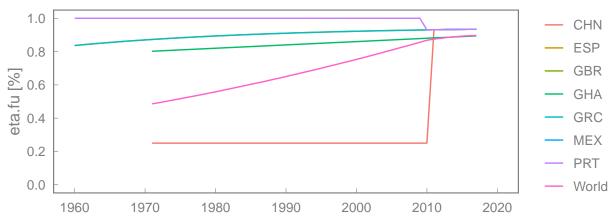
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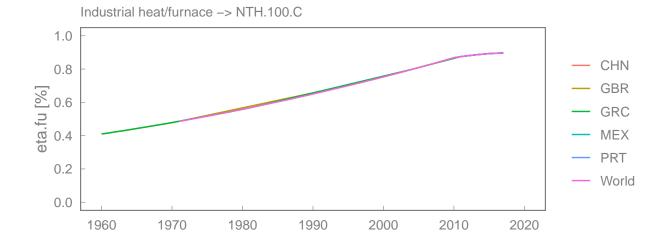


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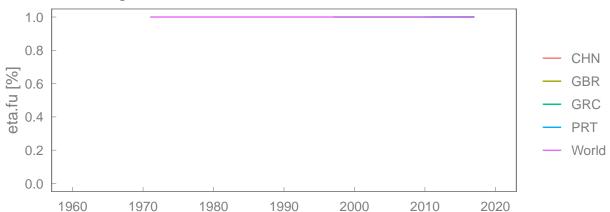


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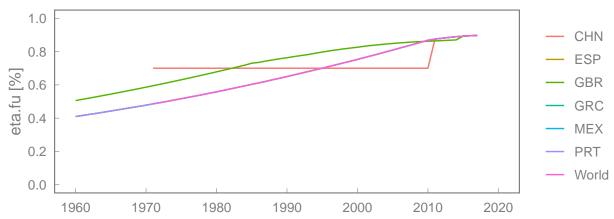
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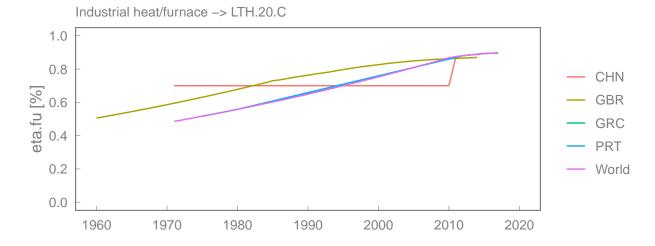


[[35]]

Domestic heat/furnace -> LTH.20.C

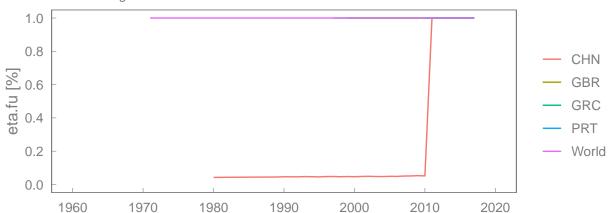


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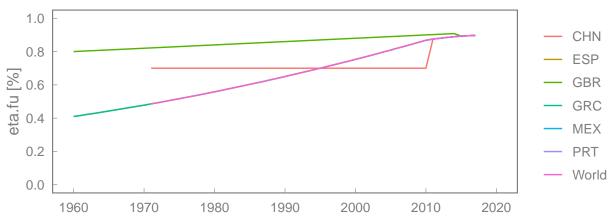
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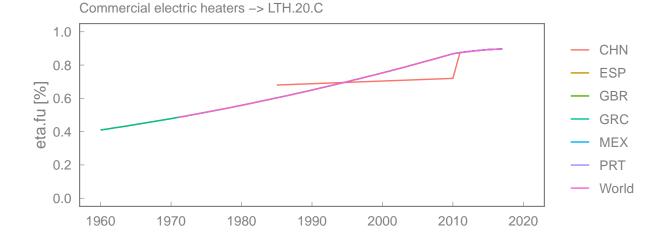


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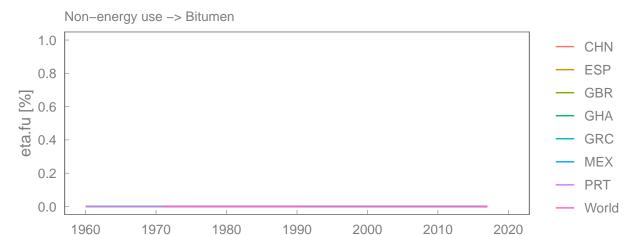




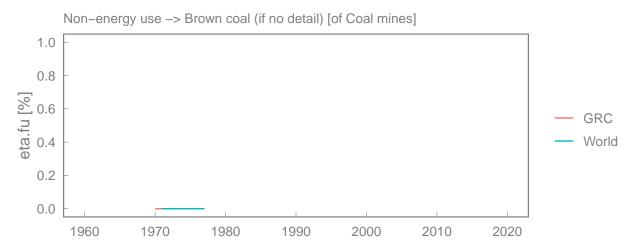
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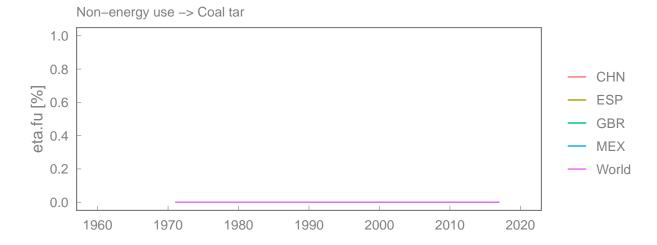
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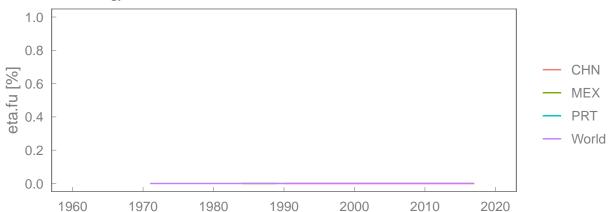


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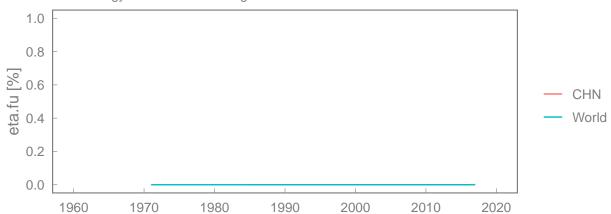
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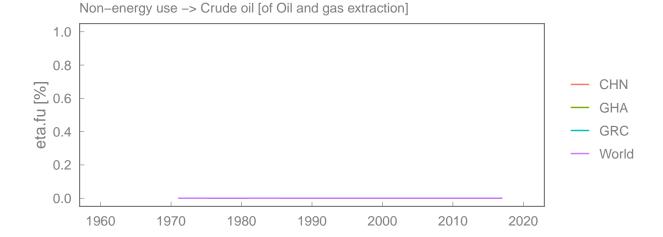


[[44]]

Non-energy use -> Coke oven gas

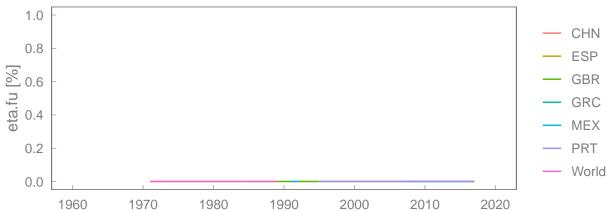


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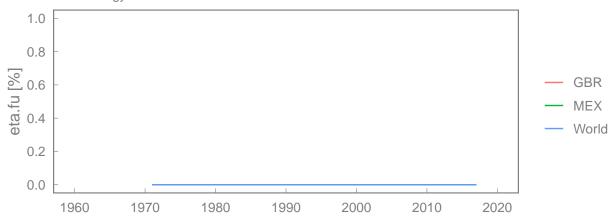
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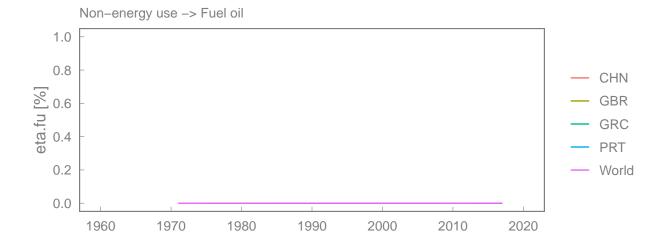


[[47]]

Non-energy use -> Ethane

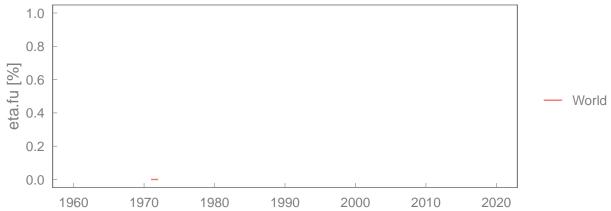


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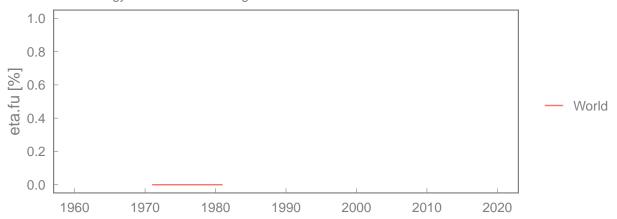
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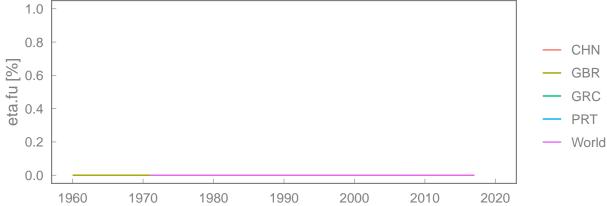
[[50]]

Non-energy use -> Gas works gas



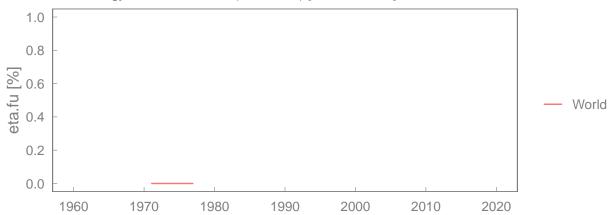
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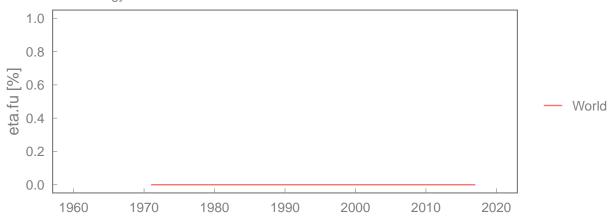
[[52]]

Non-energy use -> Hard coal (if no detail) [of Coal mines]

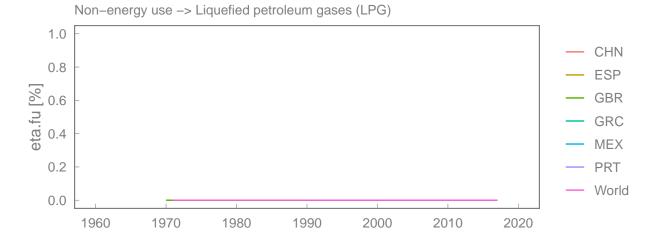


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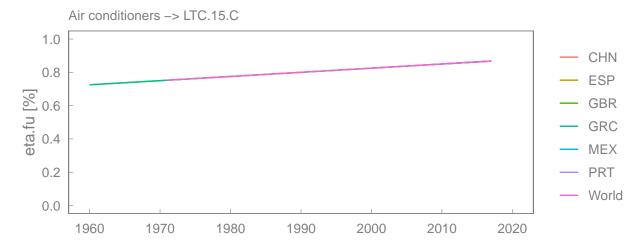
Non-energy use -> Heat



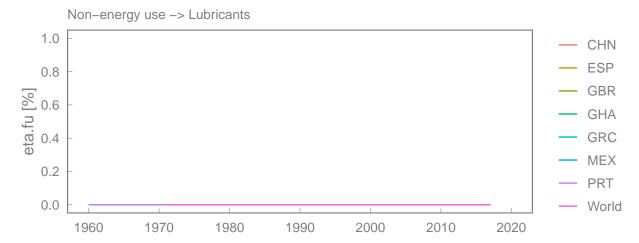
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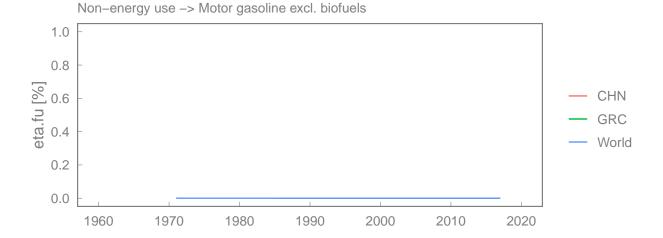
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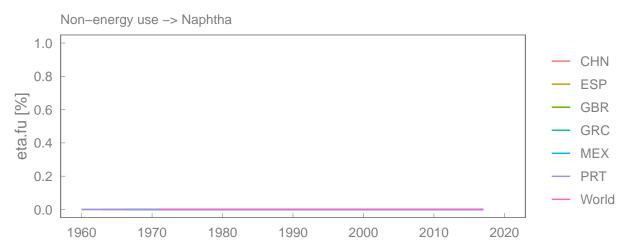




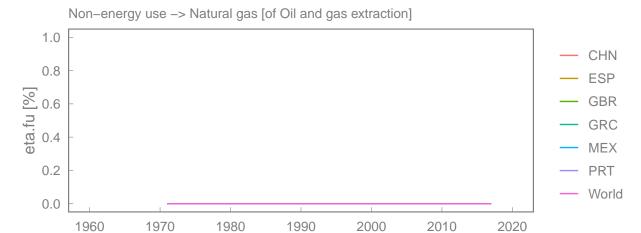
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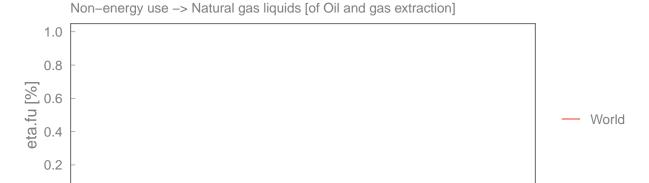
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[[60]]



1990

2000

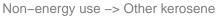
2010

2020

[[61]]

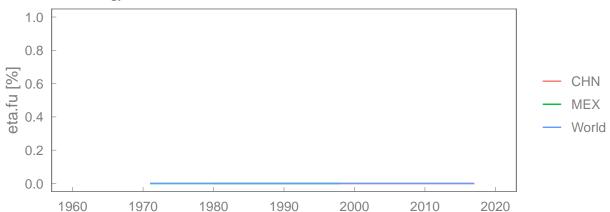
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1960



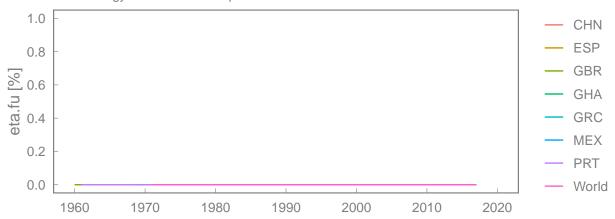
1970

1980

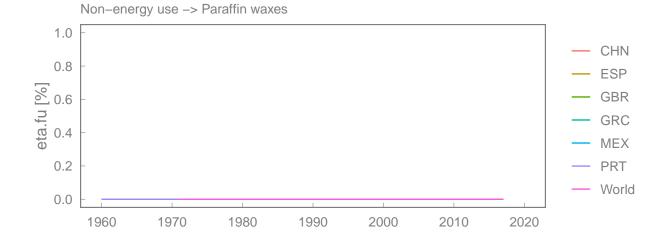


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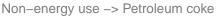
Non-energy use -> Other oil products

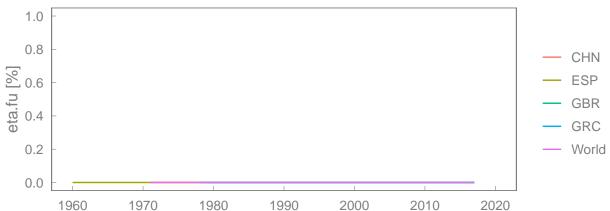


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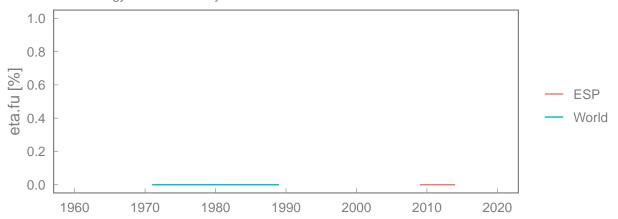
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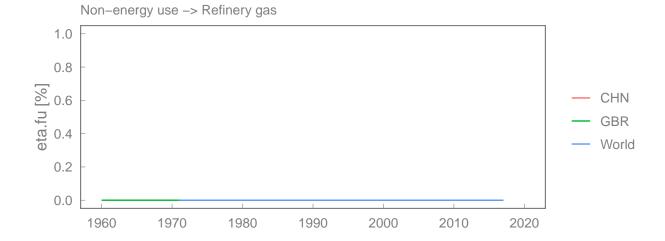


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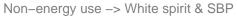
Non-energy use -> Primary solid biofuels

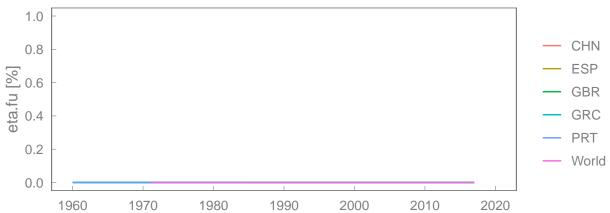


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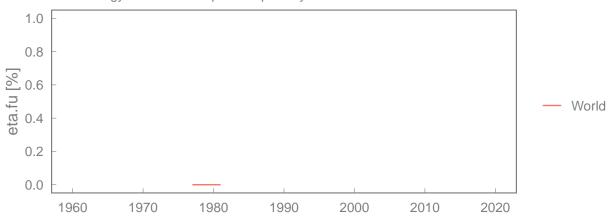
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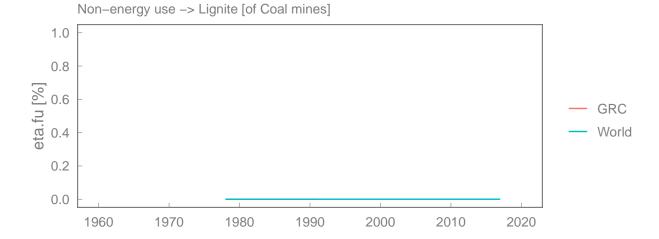


[[68]]

Non-energy use -> Non-specified primary biofuels and waste

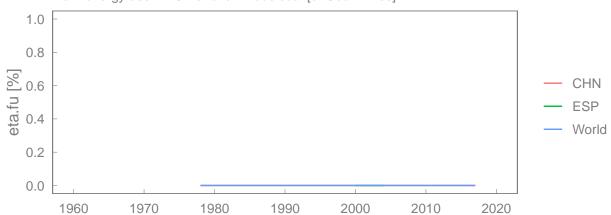


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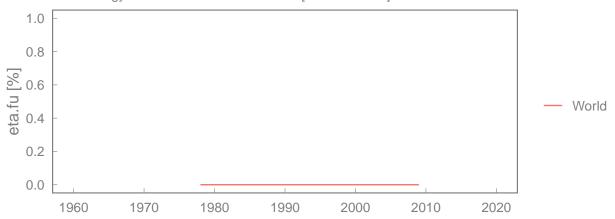
[[70]]

Non-energy use -> Other bituminous coal [of Coal mines]

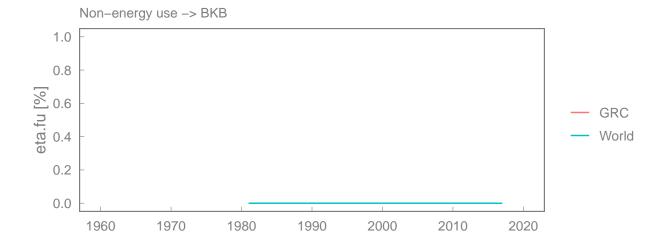


[[71]]

Non-energy use -> Sub-bituminous coal [of Coal mines]

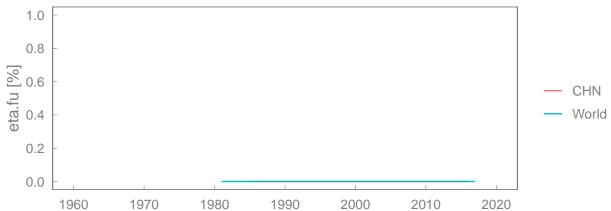


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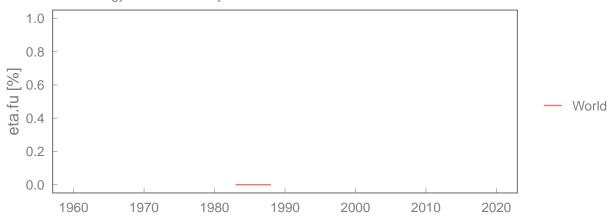
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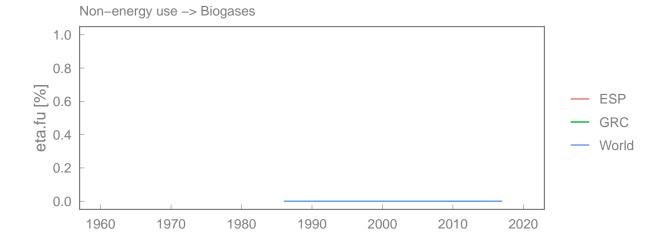


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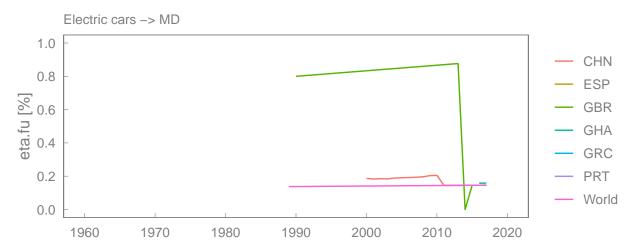
Non-energy use -> Refinery feedstocks



[[75]]

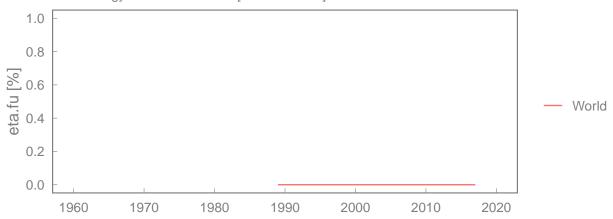


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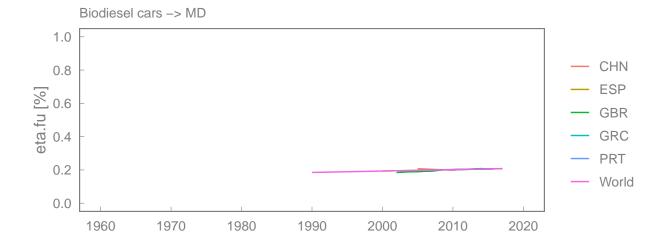


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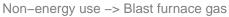


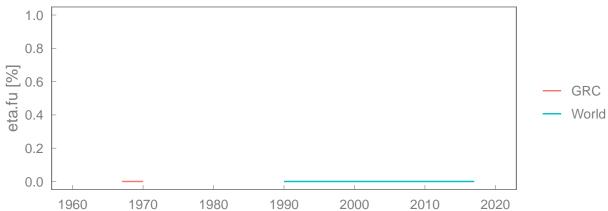


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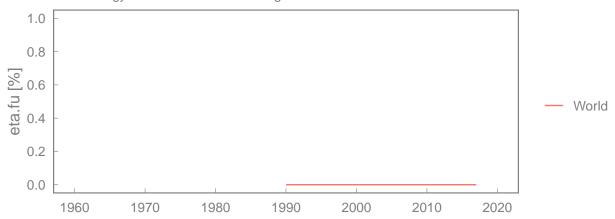
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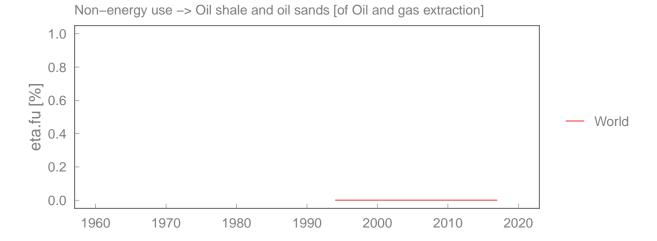


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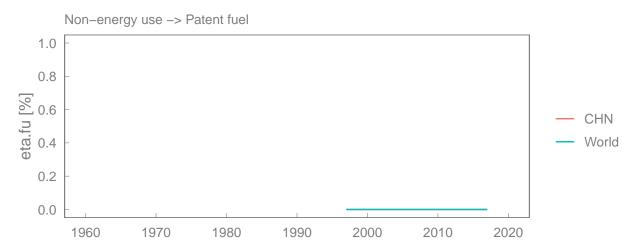
Non-energy use -> Other recovered gases



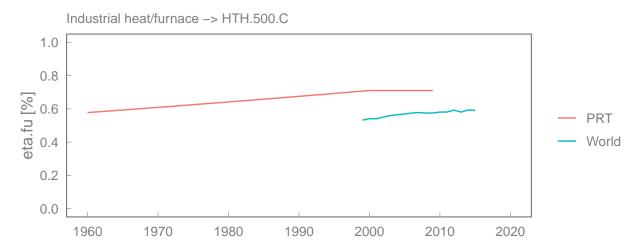
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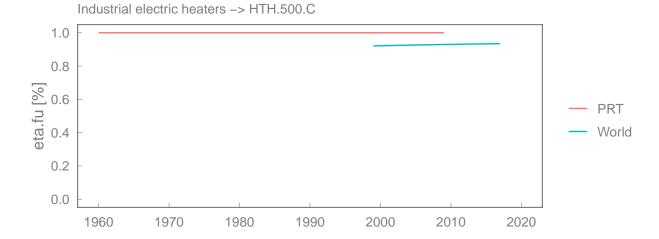
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[[83]]

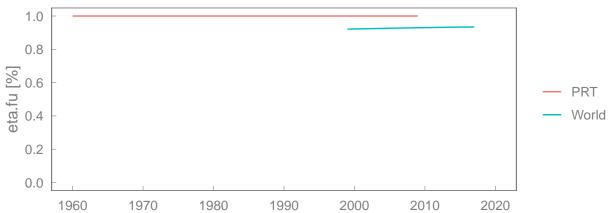


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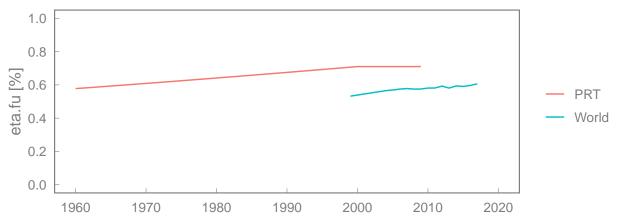
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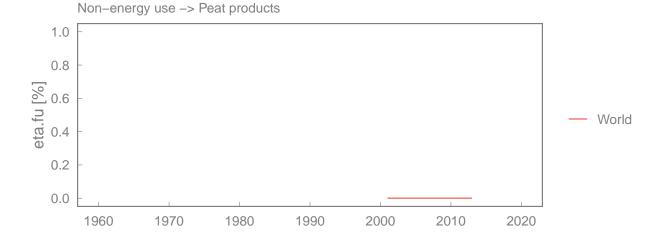


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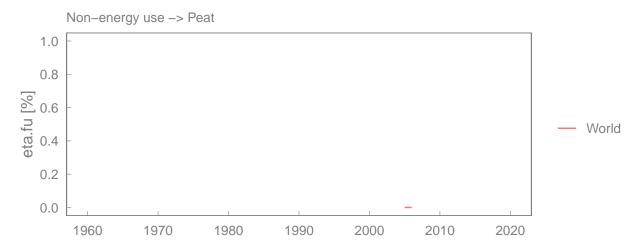
Industrial heat/furnace -> MTH.120.C



[[87]]

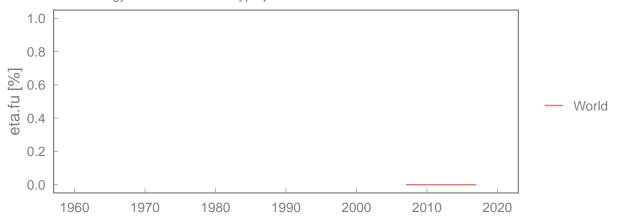


[[88]]



[[89]]





[[90]]



1990

2000

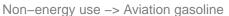
2010

2020

[[91]]

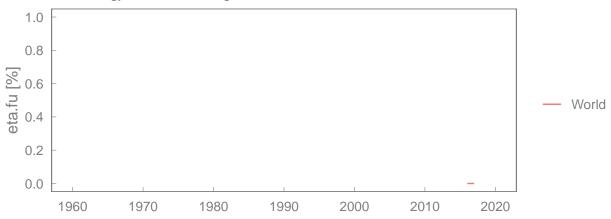
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1960



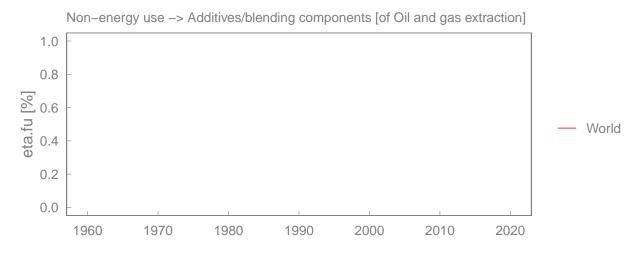
1980

1970

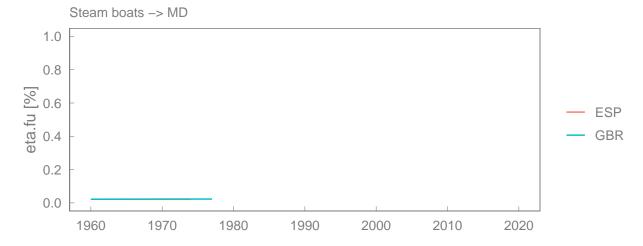


[[92]]

geom_path: Each group consists of only one observation. Do you need to adjust
the group aesthetic?

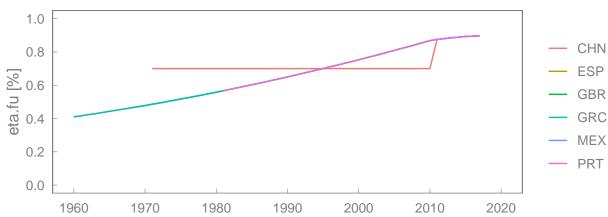


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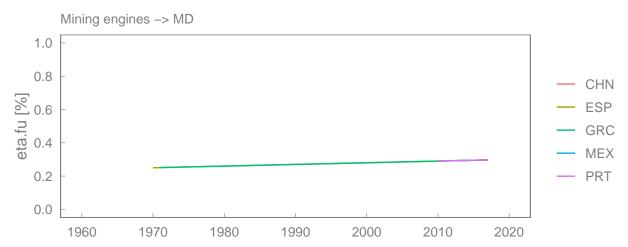


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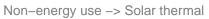


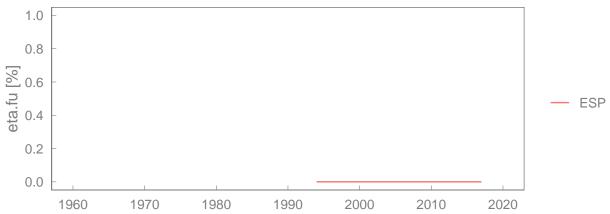


[[95]]



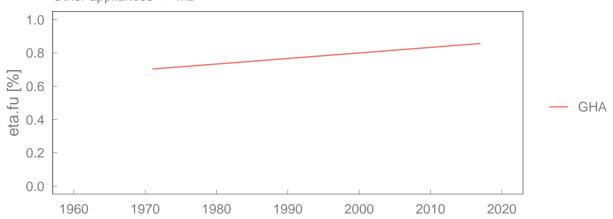
[[96]]



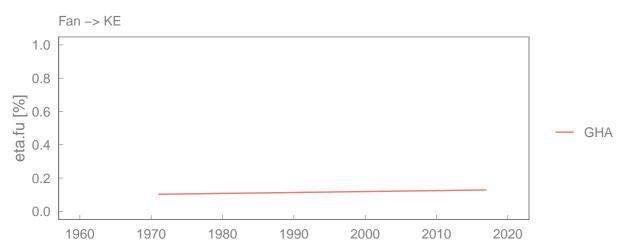


[[97]]

Other appliances -> MD



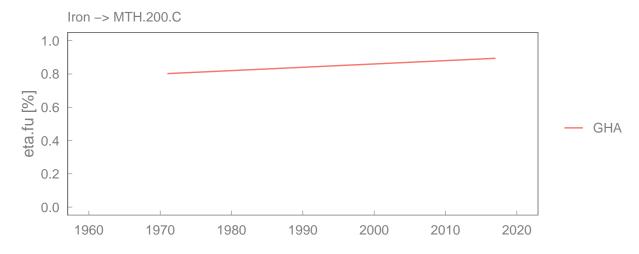
[[98]]



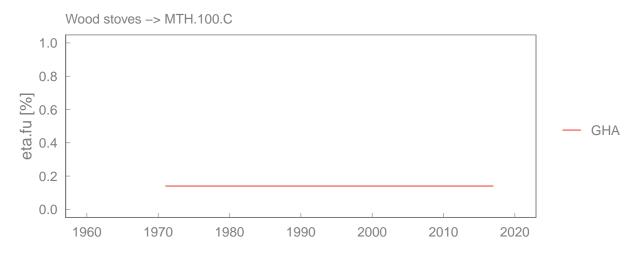
[[99]]



[[100]]

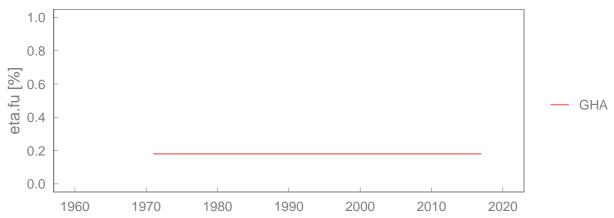


[[101]]



[[102]]





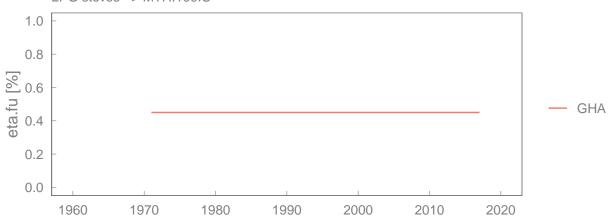
[[103]]

Kerosene stoves -> MTH.100.C



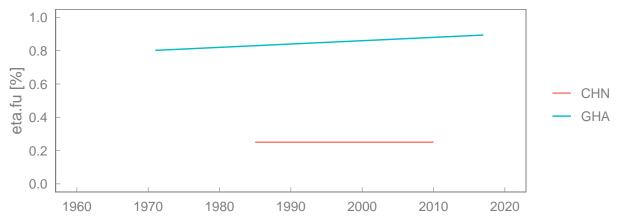
[[104]]





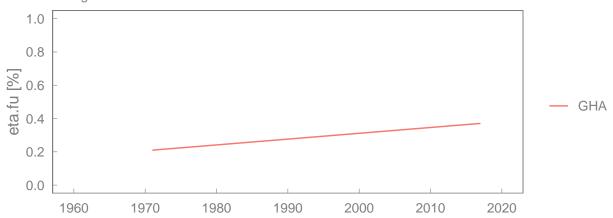
[[105]]





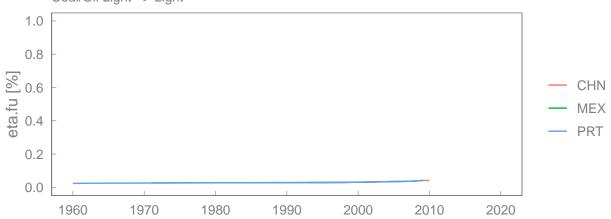
[[106]]

Refrigerators -> LTH.-10.C



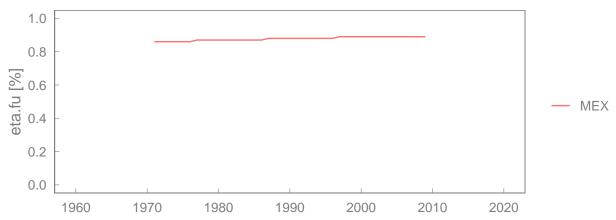
[[107]]





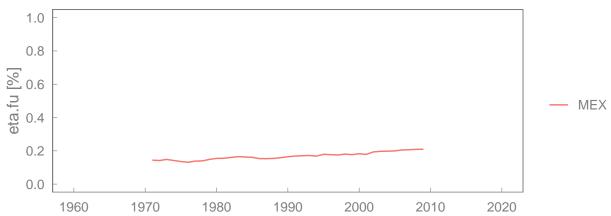
[[108]]

Domestic electric heaters -> HTH.600.C



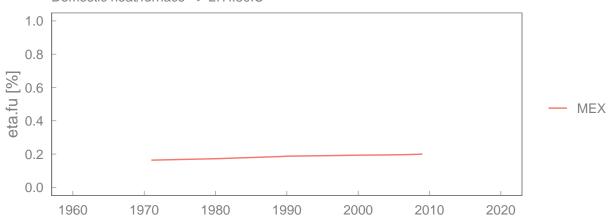
[[109]]

Industrial heat/furnace -> MTH.360.C



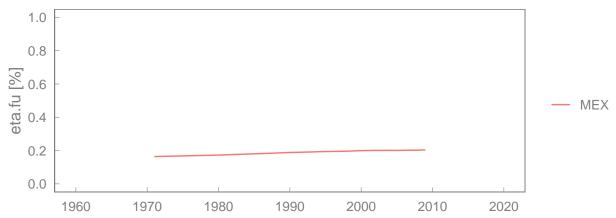
[[110]]

Domestic heat/furnace -> LTH.80.C



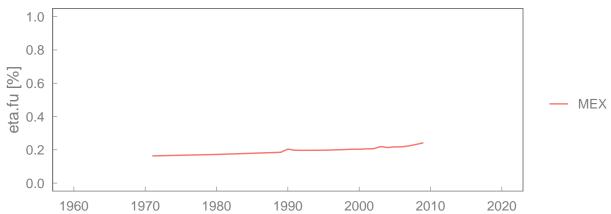
[[111]]





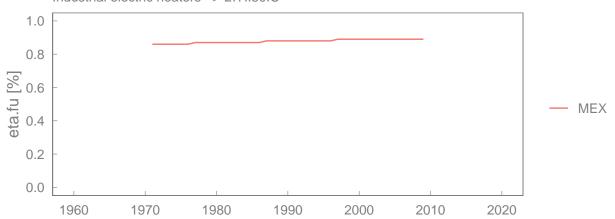
[[112]]

Commercial heat/furnace -> LTH.80.C



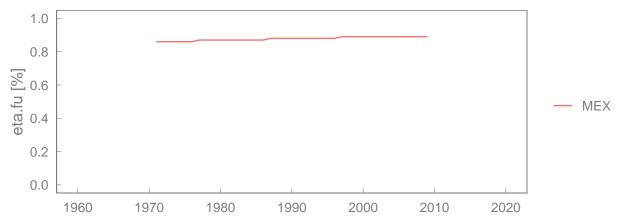
[[113]]

Industrial electric heaters -> LTH.80.C



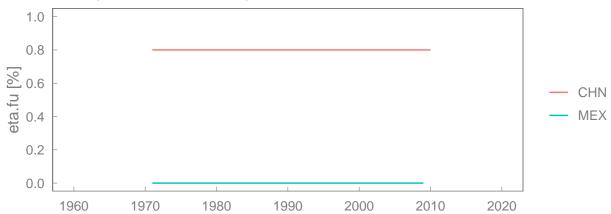
[[114]]

Domestic electric heaters -> LTH.80.C



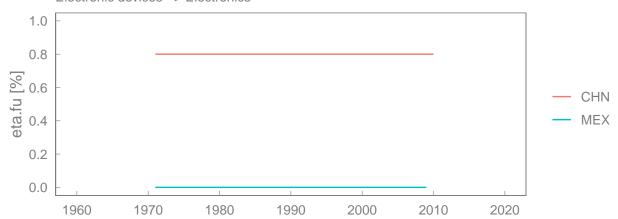
[[115]]

Electrolytic machines -> Electrolysis



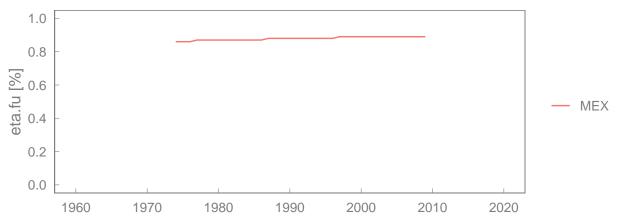
[[116]]

Electronic devices -> Electronics



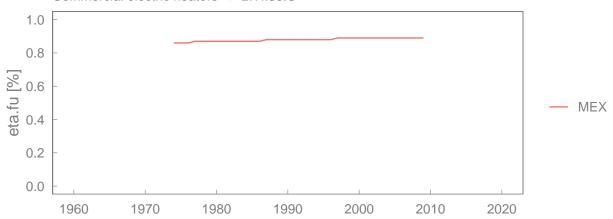
[[117]]

Commercial electric heaters -> HTH.600.C



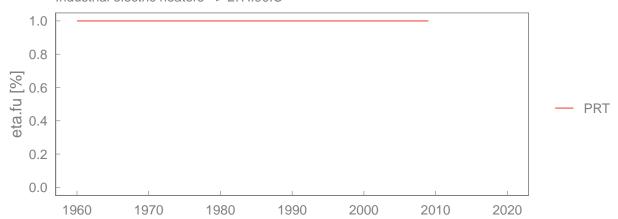
[[118]]

Commercial electric heaters -> LTH.80.C



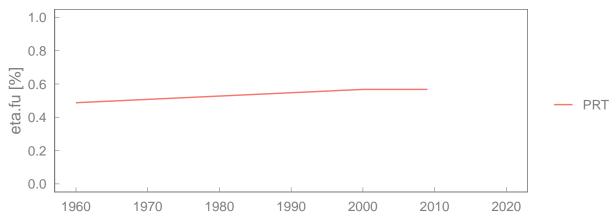
[[119]]





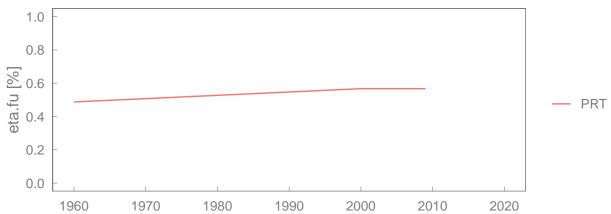
[[120]]





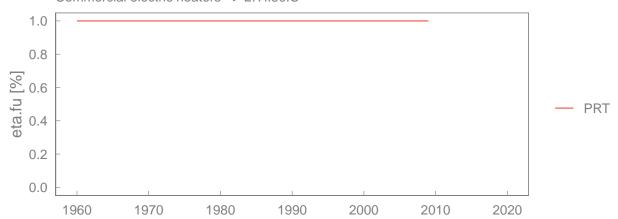
[[121]]

Commercial heat/furnace -> LTH.50.C



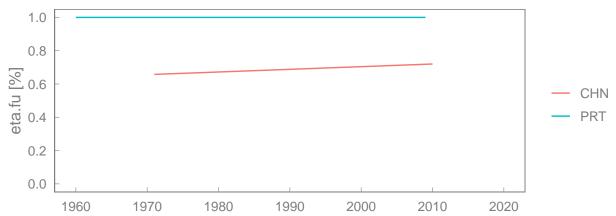
[[122]]

Commercial electric heaters -> LTH.50.C



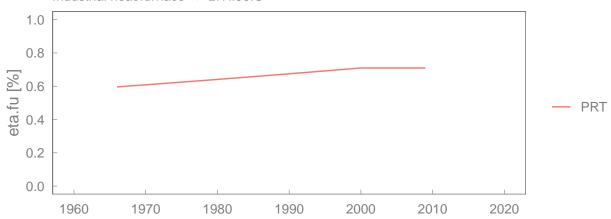
[[123]]





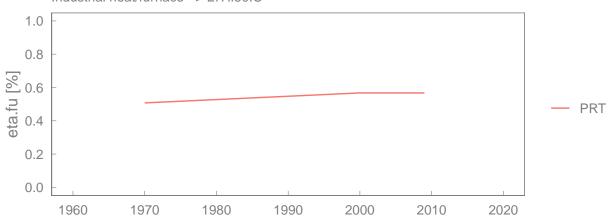
[[124]]

Industrial heat/furnace -> LTH.90.C

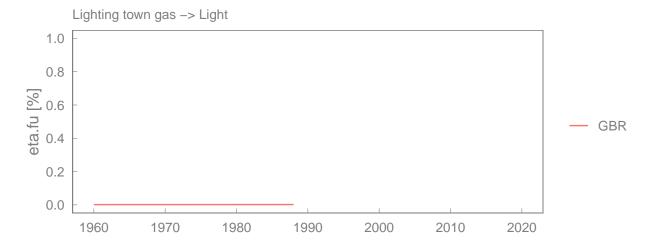


[[125]]



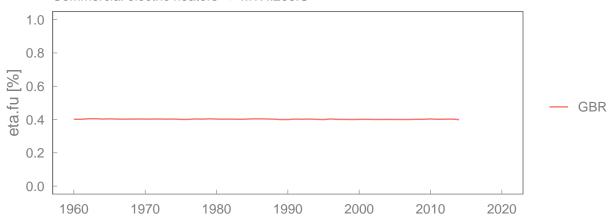


[[126]]

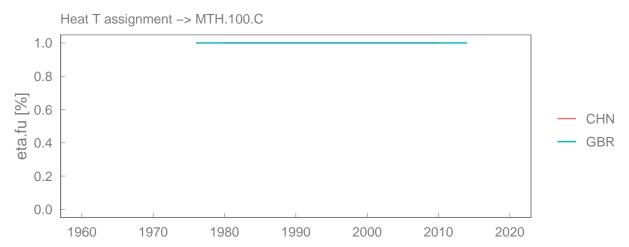


[[127]]

Commercial electric heaters -> MTH.200.C



[[128]]



[[129]]



1990

2000

2010

2020

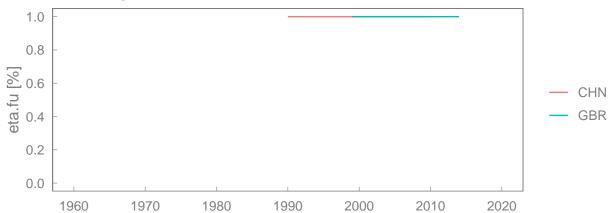
[[130]]

1960



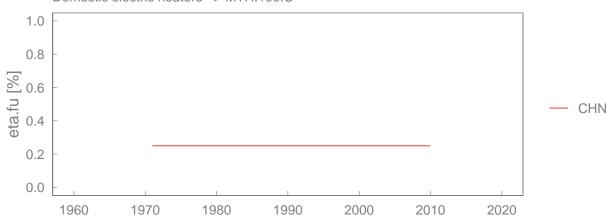
1970

1980

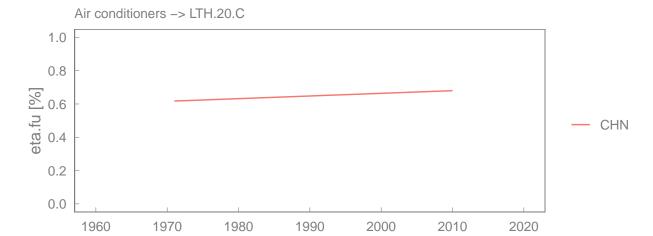


[[131]]

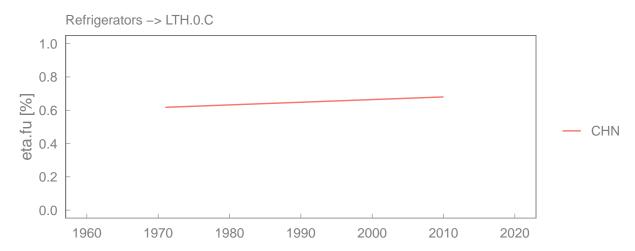
Domestic electric heaters -> MTH.100.C



[[132]]



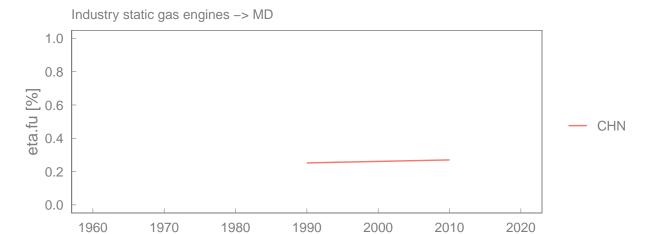
[[133]]



[[134]]



[[135]]



[[136]]

