ONLINE SUPPLEMENTAL MATERIAL

A.1 Additional Data

| | China | USA | India | Russia | Japan | Germany | Poland | Sweden |
|-------------------------------------|---------|---------|----------|----------|---------|---------|---------|----------|
| Consumer | | | | | | | | |
| subsidies | € -1.09 | € -0.64 | € -2.58 | - | - | € -0.37 | € -0.01 | - |
| Further subsidies | € -0.16 | € -0.14 | € -0.00 | €-3,45 | € -0.37 | € -0.29 | € -1.30 | |
| Net tax rate | € 6.47 | € 12.82 | € 13.81 | € 0.00 | € 30.02 | € 51.67 | € 26.70 | € 106.13 |
| ETS price effect* Negative price | € 0.40 | € 0.74 | - | - | - | € 9.79 | € 12.80 | € 6.58 |
| IEA | € -4.39 | - | € -15.93 | € -19.76 | - | - | - | - |

Table A-1 National-average net carbon price and ETS results for 2018

*For the US and China data on emission coverage and caps in the ETS systems was not always available for the year 2018 so we had to use different years. Since the share of national emissions that are covered are very small, this will have little effect of the resulting prices.

| | China | USA | India | Russia | Japan | Germany | Poland | Sweden |
|-------------------|----------|---------|---------|---------|----------|----------|----------|----------|
| Consumer | | | | | | | | |
| subsidies | € -11.62 | € -0.44 | | | € -0.03 | € -0.42 | | |
| Further subsidies | € -0.30 | €-0.07 | | €-19.42 | € -0.54 | | | |
| Net tax rate | € 61.45 | € 37.47 | € 76.77 | € 0.02 | € 141.95 | € 210.58 | € 130.55 | € 198.41 |
| ETS price effect | | € 0.99 | | | | € 1.36 | € 0.51 | € 3.41 |

Table A-2 Transport sector average net carbon price and ETS results for 2018

Table A-3 Industrial sector average net carbon price and ETS results for 2018

| | China | USA | India | Russia | Japan | Germany | Poland | Sweden |
|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Consumer | | | | | | | | |
| subsidies | € -0.00 | €-0.17 | € -0.06 | | | € -0.73 | | |
| Further subsidies | €-0.19 | € -0.14 | € -0.06 | € -0.03 | € -0.14 | €-1.02 | € -0.94 | |
| Net tax rate | € 1.70 | € 0.01 | € 7.26 | € 0.00 | € 4.32 | € 3.62 | € 11.60 | € 14.07 |
| ETS price effect | € 0.47 | € 0.73 | | | | € 5.49 | € 10.54 | € 8.54 |

Table A-4 Residential and commercial sector average net carbon price and ETS results

| for 2018 | | | | | | | | |
|-------------------|---------|---------|----------|--------|---------|---------|---------|----------|
| | China | USA | India | Russia | Japan | Germany | Poland | Sweden |
| Consumer | | | | | | | | |
| subsidies | €-1.15 | € -3.74 | € -40.30 | | | | € -0.08 | |
| Further subsidies | € -0.34 | €-0.15 | € -0.00 | €-5.07 | € -0.51 | | € -1.34 | |
| Net tax rate | € 4.66 | | € 1.02 | € 0.00 | € 19.74 | € 26.80 | € 2.48 | € 150.20 |
| ETS price effect | | € -0.97 | | | | | | |

Table A-5 Electricity sector average net carbon price and ETS results for 2018

| | China | USA | India | Russia | Japan | Germany | Poland | Sweden |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Consumer subsidies | | €-0.13 | € -0.00 | | | | | |
| Further subsidies | € -0.06 | € -0.19 | € -0.01 | € -0.05 | € -0.44 | € -0.21 | € -2.13 | |
| Net tax rate | € 0.01 | | € 3.04 | € 0.00 | € 5.37 | | | |
| ETS price effect | € 0.47 | € 0.45 | | | | € 24.48 | € 24.48 | € 24.48 |

Table A-6 Sector emission share (2018) - Overview

| | China | USA | India | Russia | Japan | Germany | Poland | Sweden |
|----------------------------|-------|------|-------|--------|-------|---------|--------|--------|
| Total combustion emis. (Mt | | | | | | | | |
| CO ₂) | 9744 | 5006 | 2131 | 1609 | 1215 | 773 | 310 | 42 |
| Transport sector | 9% | 34% | 13% | 15% | 17% | 22% | 18% | 48% |
| Industrial sector | 47% | 18% | 39% | 54% | 32% | 28% | 28% | 44% |
| Residential/Commercial | 6% | 11% | 6% | 10% | 11% | 18% | 14% | 3% |
| Electricity sector | 38% | 37% | 42% | 21% | 40% | 32% | 40% | 5% |

Source: OECD (2019)

A.2 Details on fuel and carbon tax data from the OECD TEU report

The TEU report shares net tax rate data per end-use sector, but also per fuel to a degree. Usually, the two or three most consumed fuels per sector are reported individually, with the remaining fuels being summarized under a miscellaneous category. As fuel usage patterns differ between countries, the fuels that are reported individually in the TEU report vary between countries and sectors. Due to this mixed reporting, we do not publish per fuel results, although we internally allocated negative carbon prices on a fuel level where it was possible based on the TEU data. Both sector and per fuel reporting offers insights into the structure of effective fossil fuel pricing and future TEU reports may share data in more detail, making a per fuel calculation of net carbon prices easier. At the moment, more detailed data are only shared graphically in the TEU's country notes¹.

It is possible to calculate detailed per-fuel net tax rates from tax and consumption data shared by countries, but the matching of tax rates to consumption statistics is not straightforward. For example, Germany's fuel tax rates are differentiated by different sector boundaries than those used by Eurostat. Also, some tax rate differentiation is based on firm size or on fuel characteristics (e.g. sulfur content in diesel fuel), which again is not reported by Eurostat.

We explored creating our own dataset on net fuel tax rates for Germany from primary sources, with our country-average results differing from the TEU results by 4%. We decided to use the TEU data on net tax rates instead of our own calculations due to

See tab "Tax and the environment" at https://www.oecd.org/tax/tax-policy/tax-database/

the data-constraints described above. Without the TEU data, it would have been more difficult to include especially developing countries like China, which tend to be less transparent in sharing tax and consumption data.

One modification of the TEU data we made was that we omitted net tax rate data on biofuels from the net carbon price calculation. The OECD TEU report includes biofuels in its tax overview, arguing that biofuels are usually not emission neutral as shown by life cycle analysis (OECD, 2018). We do not include biofuels in our analysis, however instead following the biofuel classification of the UNFCCC.

A.3 Details on sector attribution for emission trading systems

The EU ETS covers electricity and heat generation, certain industrial activities and aviation. In its ETS data viewer (EEA, 2021), the EEA only differentiates between stationary combustion and aviation for combustion-related emissions. We therefore had to estimate the share of emissions for the electricity and industrial sector, while all aviation emissions were attributed to the transport sector. As virtually all emissions related to electricity generation are covered by the EU ETS² and stationary combustion activities only cover the electricity and industrial sector, we assume that total stationary

² Some small operations are excluded from EU ETS obligations, but this likely applies mainly to industry and not to generally large-scale electricity generation facilities powered by fossil fuels. See the EU Commissions EU ETS overview for details: https://ec.europa.eu/clima/policies/ets_en#tab-0-0

combustion emissions minus electricity-sector emissions equal industrial sector emissions.

For the U.S., we included the three currently active regional ETS schemes: the California Cap and Trade (CaT) scheme which covers about 80% of California's CO₂ emissions (ICAP, 2021); the Regional Greenhouse Gas Initiative (RGGI) which covers the electricity sector of ten eastern US states; and the Massachusetts ETS, which puts an additional price on emissions in the Massachusetts electricity sector, which is also already covered by the RGGI scheme. California's CaT does not cover all emissions in all sectors. We assume that the 80% coverage figure is equally distributed across sectors.³ As the value for California only adds $\in 0.82/tCO_2$ to the nationwide average price, any inaccuracy in sector attribution of California's CaT does not have a significant impact on overall results.

For the year of our analysis, China had eight regional ETS test schemes in operation, which cover electricity and industrial emissions in these jurisdictions⁴.

- ³ The World Bank's Carbon Pricing Dashboard reports California's Sector emissions including non-combustion emissions (World Bank, 2021). We therefore assumed that 50% of California's Industrial sector emissions are from fossil fuel combustion, which is the U.S. countrywide share in the industrial sector (IEA, 2021).
- ⁴ Some regional schemes cover a small share of transport emissions from public transport or regional aviation. We did not factor in transport sector ETS coverage because of the insignificant coverage and impact.

Because regional sector emissions statistics are not available, we assume the national sector share for the regional ETS schemes and allocate the price effect accordingly. We estimate the overall countrywide price impact of the ETS schemes at $\notin 0.48/tCO_2$.

A significant number of permits are still allocated freely to firms based on past emissions. This allocation is, however, not counted as a subsidy here because the allocation provides no marginal effect and they do not undermine the ETS's incentive for emission abatement, as the freely allocated subsidies can be sold off in case firms reduce emissions.

A.4 Details on subsidy data from the OECD Inventory of Support Measures for Fossil Fuels

In its fossil fuel support database⁵, the OECD Inventory provides supplemental information on each individual subsidy measure. This information is usually sufficient to determine whether the measure fits our definition for negative carbon prices. To determine negative carbon prices for a country and per sector, we first remove all fuel-tax subsidies covered in the TEU report and then consider which of the remaining measures have a marginal impact on consumption or production of fossil fuels. We also identify if the measures potentially affect exports of fossil fuels and if yes, multiply them by share of this fossil fuel that is not exported. This is only relevant for the USA and Russia,

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https://stats.oecd.org/Index.aspx?DataSetCode=FFS_DEU&_ga=2.47427623.127 9122295.1621935900-1399138561.1621525647

otherwise the export share is either zero or there are no subsidies which relate to exports. Table A-8 shows the export shares we derived from IEA data on country balances and Table A-9 our categorization.

| | Coal | Crude Oil | Natural Gas |
|--------|------|-----------|-------------|
| USA | 19% | 18% | 12% |
| Russia | 56% | 47% | 33% |

Table A-7 Export shares of different fuels

Source: IEA (2022).

We then identify which of our four sectors the subsidy affects, with measures covering multiple sectors being attributed by share of consumption – e.g. a measure subsidizing coal in the electricity and industrial sector would be attributed to both sectors based on how much coal is consumed in these sectors. This attribution is not precise, since the actual sector-share of the subsidization is not known and thus has to be estimated but it is standard practice. The estimation in turn is based on the fuel-share reported in the OECD Inventory. The OECD Inventory attributes the total subsidization amount of a measure to individual fuels, since country documents and reports which serve as the data source for the OECD Inventory usually only report the total subsidization amount for a measure, not the share benefitting individual fuels. The Inventory's attribution to individual fuels seems to assume a uniform subsidy per unit of energy, according to our observations when comparing subsidization estimations from different sources for Germany. This likely only yields a rough approximation for many measures, as factors determining the subsidy amount can differ between fuels even for the same measure. For example, a fuel tax exemption will benefit some fuels more than others, based on the non-subsidized rates of the affected fuels.

These issues should, however, not majorly affect the robustness of our results for two reasons. First, the attribution issue in the OECD Inventory mostly affects fuel tax exemptions, which we do not incorporate as subsidies into our results. Second, many subsidies or net fuel tax rates affect only one sector, and since we aggregate to sector level and do not present results for individual fuels, this will mostly not alter the results. If measures are attributed to different sectors, the influence of this misattribution will depend on how much consumption shares of these fuels differ between sectors. However, on a country-average level these misattributions will not affect results at all, since they do not change the overall subsidy or tax amounts.

To assess completeness of the subsidy measures listed in the OECD Inventory, we compared the subsidies listed in the OECD Inventory for Germany with the IfW's own subsidy report⁶ and to the subsidy report published by the German finance ministry (BMF, 2017). While mostly identical, we found that some federal subsidies where not reported in the OECD Inventory, for example subsidies on fuels used in combined heat and power plants (CHP). However, the differences only applied to fuel-tax subsidies and were therefore not relevant for our analysis. We did not analyze differences for other countries but assume that subsidies tend to be underestimated, especially in federal countries where individual states or other government entities can implement their own subsidy policies (on which data are less readily available) or in countries which are less transparent.

⁶ https://www.ifw-kiel.de/publications/kieler-beitraege-zur-wirtschaftspolitik/kielsubsidy-report-2020-subsidies-on-the-rise-14952/

A.5 Categorization of Subsidies

Table A-8 Categorization of subsidies that are not part of the OECD-TEU report

| Subsidy Measure | Included in NCP | Justification** | Classification |
|--|--------------------|---------------------------|---|
| Germany* | | | |
| Compensation for Mothballing and Closing of Lignite-fired Power Plants | No | Related to closing plants | |
| Early Retirement Payments for Hard Coal Miners in North Rhine Westphalia and Saarland | No | "Labor" | |
| Combined Aids for coal in North Rhine Westphalia | Yes | | Producer support |
| Rehabilitation of Lignite Mining Sites in East Germany | No | Related to closed sites | |
| Energy Tax Relief for Public Transportation | Yes | | Consumer support |
| Peak Equalisation Scheme | Yes | | Consumer support |
| Mining Royalty Exemptions | Yes | | Producer support |
| Water Fee Exemptions | Yes | | Producer support |
| Poland | | | |
| NFOSiGW Aid for Environmental Protection | Yes | | |
| Severance Payments for the Coal Mining Industry | No | "Labor" | |
| Coal Allowances in Coal Mining Sector | Yes | | Consumer support |
| Early Retirement Benefits for Laid Off Miners | No | "Labor" | |
| Stranded Costs Compensations | Yes | | Producer support, not export related |
| Initial Investment Aid for NATGAS investments | Yes | | |
| Investment Aid for Coal Mining sector 2015-2018 | Yes | | Producer support |
| USA | | | |
| Marginal Wells Credit | Yes | | Producer support |
| Capital Gains Treatment of Royalties on Coal | Yes | | Producer support |
| Expensing of Exploration and Development Costs | No | Negative value | |
| Excess of Percentage over Cost Depletion | Yes | | Producer support |
| Amortisation of Geological and Geophysical Expenditure | No | "Knowledge" | |
| Accelerated Depreciation of Natural Gas Distribution Pipelines | Yes | | Producer support |
| Exception from Passive Loss Limitation | Yes | | Producer support |
| Temporary Expensing of Equipment for Refining | No | Negative values | |
| Low-Income Home Energy Assistance Program | Yes | | Consumer support |
| Strategic Petroleum Reserve | No | Reserve | |
| Fossil Energy R&D | No | "Knowledge" | |
| Northeast Home Heating Oil Reserve | No | Reserve | |
| Development Credit for Small Producers & New Areas | Yes | | Producer Support |
| Coal Refuse Energy and Reclamation Tax Credit | Yes | | Consumer support |
| Non Utility Sales of Natural Gas | Yes | | Consumer support |
| Industrial Expansion and Revitalization Credit | Yes | | Consumer support |
| Credit for Reducing Utility Charges | Yes | | Consumer support |
| Exclusion of Low Volume Oil & Gas Wells | Yes | | Producer support |
| Reduced Tax for Thin-Seamed Coal | Yes | | Producer support |
| Percentage Depletion of Mineral and Other Resources | Yes | | Producer support |

| Diverse Sales Tax Exemptions | Yes | | Consumer support |
|---|-----|---------------------------|--------------------|
| Thin Seam Tax Credit | Yes | | Producer support |
| Excess of Percentage over Cost Depletion | Yes | | Producer support |
| Railroad Improvement Tax Credit | Yes | | Producer Support |
| Natural Gas or Oil Severance Tax Suspension | Yes | | Producer support |
| Diverse Reduced Severance Taxes | Yes | | Producer support |
| | | | Producer support |
| Excess of Percentage over Cost Depletion | Yes | | Producer support |
| Gross Production Tax Exemption for O&G Owned by Government | Yes | | Producer support |
| Gas Marketing Deduction Against Gross Production Tax | Yes | | Consumer support |
| Nonrefundable Tax Credit for the Purchase of Oklahoma Mined Coal | Yes | | Consumer support |
| Coal Used in the Manufacture of Electricity | Yes | | consumer support |
| Sales of Electricity | No | Electricity based support | |
| Sales-Tax Exclusion for Purchase of Electric Power or Energy for Non- | | | |
| residential Use | No | Electricity based support | C |
| Credit for Ad Valorem Tax on Natural Gas and on Offshore Vessels | Yes | | Consumer support |
| Sales Tax Exemption for Oil & Gas Equipment | Yes | | Producer support |
| Sales-Tax Exclusion for Installation of Board Roads in Oil-fields | No | Electricity based support | |
| Sales-Tax Exemption for Repairs and Materials Used on Drilling Rigs | No | Electricity based support | |
| Departm. for Energy Development and Independence | No | "Knowledge" | |
| Coal Academy Mining Workforce Development | No | "Labor" | |
| Mine Safety and Licensing | No | "Labor" | |
| Enhanced Oil Recovery Commission | No | "Knowledge" | |
| Oil and Gas Research Fund | No | "Knowledge" | |
| Oil and Gas Impact Grant Fund | Yes | | |
| Abandoned Oil and Gas Well Plugging & Site Reclamation Fund | Yes | | |
| Coal Development Trust Fund | Yes | | |
| Abandoned Mine Reclamation Fund | Yes | | |
| Wyoming Oil and Gas Conservation Commission | No | "Knowledge" | |
| | | | |
| China* | | | |
| VAT Rebate on Imported Natural Gas Attributable to PetroChina and on | | | Producer support |
| LNG | Yes | | Duo duo on summont |

| VAT Rebate on Imported Natural Gas Attributable to PetroChina and on LNG | Yes | | Producer support |
|--|-----|-------------|------------------|
| Resource-Tax Abatements and Refunds for Oil and Gas Extraction | Yes | | Producer support |
| VAT Reduction for Natural Gas and Coal for Home Use | Yes | | Consumer support |
| Petroleum Fuels Price Reform Support Programmes | Yes | | Consumer support |
| Support Measures for Coal-Bed Methane Producers | Yes | | Producer support |
| 2012-15 Shale-Gas Subsidy | Yes | | Producer support |
| Provincial Coal Safety Fund | Yes | | Producer support |
| Heating Subsidy | Yes | | Consumer support |
| Provincial Coal Exploration and mining and washing | Yes | | Producer support |
| Ningxia Coal Design Research Center | No | "Knowledge" | |
| Provincial Petroleum Fuels Price Reform Support | Yes | | Consumer support |
| India* | | | |
| Promotional (Regional) Exploration in Coal and Lignite | No | "Knowledge" | |
| Detailed Drilling Non-CIL Blocks | No | "Knowledge" | |
| MoC's contribution to Coal Mines Pension Scheme & Deposit Linked Insurance Scheme | No | "Labor" | |
| Lump-sum provision for North Eastern Region & Sikkim | Yes | | Producer Support |
| Cash Incentive to States and Union Territories for Kerosene Distribution Reforms | Yes | | Consumer support |
| Page | | | |

| Pradhan Mantri Ujjwala Yojana LPG Connection Scheme | Yes | | Consumer support |
|--|------|---|------------------|
| Direct Benefit Transfer Scheme - LPG & Kerosene | Yes | | Consumer support |
| Subsidies to Oil Companies for Transporting Natural Gas to the | | | Consumer support |
| Northeastern Region | Yes | | |
| Compensation for Under-recoveries Incurred by Downstream Oil | | | Consumer support |
| Companies | Yes | | |
| Indian Strategic Petroleum Reserves Ltd | No | Reserves | |
| Coal Research and Development Programme | No | "Knowledge" Related to damage by mining operations before the nationali-sation of coal | |
| Coal Environmental Measures and Subsidence Control | No | mines | |
| | | | |
| Russia | | | Producer support |
| Different Tax Reductions for Newly Developed or offshore and onshore | | | riouucor support |
| Oilfields in Specific Regions | Yes | | Producer support |
| Tax Reductions for Gas and Condensate Produced on the Yamal Peninsula | Yes | | 11 |
| Various exemptions from the Extraction Tax | Yes | | Producer support |
| various exemptions from the Extraction Tax | 1 05 | | Producer support |
| Deductions for Investment in Occupational Safety and Health Protection | Yes | | |
| | 105 | | |
| Federal Budget Spending on Exploration and Prospecting for Coal and Hydrocarbons | No | "Knowledge" | |
| | | <i>"</i> " 6 | Producer Support |
| Federal Support for Restructuring and Development of the Coal Industry | Yes | | |
| | | | |
| Japan | | | |
| Oil Product Quality Assurance Subsidy | No | "Knowledge" | D 1 |
| Large-Scale Oil Disaster Prevention Subsidy | Yes | | Producer support |
| | | | |
| Project Expenses for the Promotion of Oil and Natural Gas Development | No | "Knowledge" | |
| Projects for Development Support of Oil and Natural Gas Producing Countries | No | Knowladaa" | |
| Countries Capital Contributions for Exploitation Rights and Assets Investment | Yes | "Knowledge" | Producer support |
| Capital Contributions for Exploration Rights and Assets investment | 1 05 | | |
| Project Expenses for the Measures to Increase Government Stockpiled Oil | No | Reserves | |
| J 1 1 | 110 | | |
| Commission Expenses for the Management of Government Stockpiling Facilities and Stock-piled Oil /LPG in Preparation for Emergency Release | No | Reserves | |
| | 110 | | |
| Project for Supporting Filling Stations to Maintain them as Regional Energy Supply Bases | Yes | | |
| Interest Subsidy for Oil and LPG Reserves | No | Reserves | |
| | | | Producer support |
| Interest Subsidy for the Domestic Oil and Natural Gas Development Fund | Yes | | |
| Interest Subsidy for Capital Investment on Facilities Utilised to Procure | | | Producer Support |
| Natural Gas | Yes | | |
| Subsidy for Oil Stockpiling Project | No | Reserves | |
| Project Expenses for Overseas Geological Surveys in Risky Areas | No | "Knowledge" | |
| Stockpiling Project Expenses | No | "Knowledge" | |
| Project for Supporting Filling Stations to Maintain and Reinforce the Oil | | | |
| Products Distribution Network | Yes | | |
| | | | |

| Support Project for Motor Gasoline Distribution Cost for Remote Islands Interest Subsidy for Oil Industry's Overseas Expansion Fund | Yes Yes | | Consumer support Producer support |
|--|------------|---------------------------|--------------------------------------|
| Overseas Coal Exploration & Development Support | Yes | | Producer support |
| Project for Improving the Productivity of Japan's Petro-chemical Complexes and their Capacity to Deal with Emergency | No | "Knowledge" | |
| Coal Producing Countries' Coal Exploration & Safety Technology Advancement Projects | No | "Knowledge" | |
| Commission Expenses to Enhance Safety of Oil Refineries | No | "Knowledge" | |
| Grant for Projects that Improve Welfare of Residents around Oil Stockpiling Facilities | No | welfare of residents | |
| Grant for Local Governments that are Hosting Government Oil and LPG Stockpiling Facilities in their Areas | No | grant to local government | |
| Petroleum RD&D Funding | No | "Knowledge" | |
| | | | |

*Relevant Export shares for Japan, China, Germany and India are zero, so producer support measures can remain as they are.

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