Supplementary material

GNFR_A 30: Austria, Belgium, Bulgaria, Czech Republic, Germany, Denmark, Estonia, Spain, Finland, France, United Kingdom, Greece, Croatia, Hungary, Ireland, Italy, Lithuania, Latvia, Netherlands, Norway, Poland, Portugal, Romania, Russia, Switzerland, Stovakia, Slovenia, Turkey, Ukraine GNFR_B Manufacturing industry 32: Austria, Bosnia and Herzegovina, Belgium, Bulgaria, Switzerland, Slovakia, Slovenia, Turkey, Ukraine GNFR_C Manufacturing industry 35: Austria, Bosnia and Herzegovina, Belgium, Bulgaria, Croatia, Hungary, Italy, Lithuania, Latvia, Malta, Luxembourg, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Sweden, Slovakia, Slovenia, Turkey GNFR_C Other stationary combustion activities 35: Austria, Bosnia and Herzegovina, Belgium, Bulgaria, Czech Republic, Switzerland, Germany, Denmark, Estonia, Spain, France, Finland, United Kingdom, Greece, Croatia, Hungary, Iteland, Italy, Lithuania, Latvia, Luxembourg, Malta, Moldova, Macedonia, Netherlands, Norway, Poland, Portugal, Romania, Russia, Sweden, Slovakia, Slovenia, Turkey, Walta, Moldova, Macedonia, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Sweden, Slovakia, Slovenia, Turkey Walta, Moldova, Macedonia, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Sweden, Slovakia, Slovenia, Turkey Walta, Belgium, Bulgaria, Czech Republic, Cyrus, Germany, Denmark, Estonia, Spain, France, Finland, United Kingdom, Greece, Hungary, Italy, Lithuania, Latvia, Methar, Luxembourg, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Sweden, Slovakia, Slovenia, Turkey 23: Austria, Bosnia and Herzegovina, Belgium, Belgium, Belgium, Bulgaria, Czech Republic, Switzerland, Ciernany, Demmark, Estonia, Spain, France, Finland, United Kingdom, Groreet, Aungary, Italy, Lithuania, Latvia, Luxembourg, Malta, Mol	Sector	Description	Countries included		
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Luxembourg, Netherlands, Norway, Poland, Portugal,					
Romania, Serbia, Sweden, Slovakia, Slovenia, Turkey			Romania, Serbia, Sweden, Slovakia, Slovenia, Turkey		

Table S1: List of countries (sea regions) included in the COVID-19 emission adjustment factors per GNFR sector

	Fossil fuel + biomass consumption (ktep)	Fossil fuel + biomass consumption (%)	Change due to COVID-19 restrictions	Change in consumption (%)
Workplaces	977	26.5%	-80%	-21.2%
Hospitals	428	11.6%	50%	5.8%
Commercia l buildings	1509	40.9%	-80%	-32.8%
Restaurants and hotels	160	4.3%	-90%	-3.9%
Schools and universities	287	7.8%	-100%	-7.8%
Other buildings	325	8.8%	-80%	-7.0%
	-66.9%			

Table S2: Energy consumption by subsectors of the Spanish commercial/institutional sector (IDAE, 2018) and estimated changes in the energy demand due to the COVID-19 restrictions.

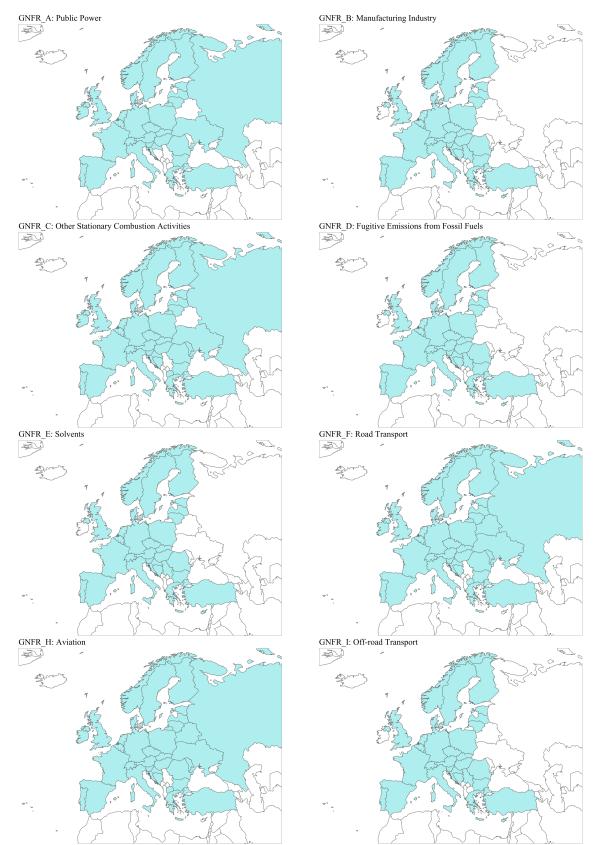


Figure S1: Spatial coverage of the COVID-19 emission adjustment factors constructed for each GNFR sector. Countries included in the database are highlighted in light turquoise

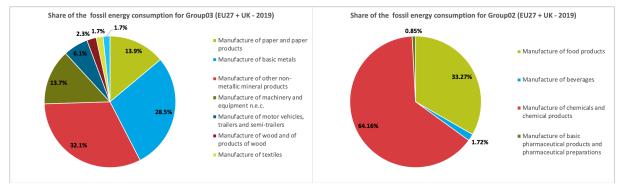


Figure S2: Relative fossil energy consumption in the GNFR_B3 - Manufacture of other products (left) and GNFR_B2 - Manufacture of pharmaceutical, chemistry, food and beverages products – (right) manufacturing industry subcategories per industrial branch in the EU27 + UK during 2019 (Eurostat, 2021).

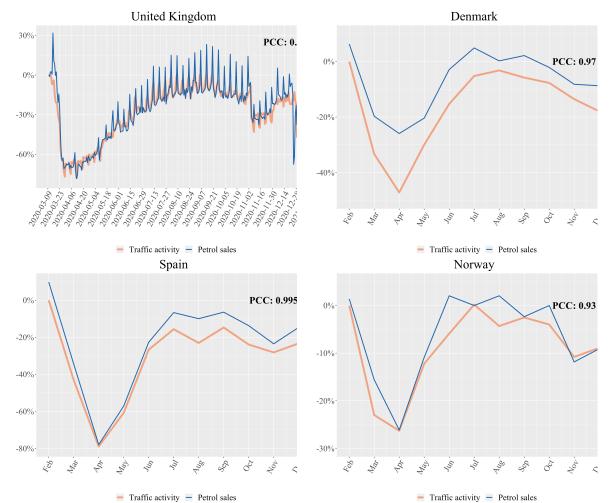


Figure S3: Weekly (UK) and monthly (Denmark, Spain, Norway) changes in traffic activity (orange line) and petrol sales (blue line) due to COVID-19 restrictions during 2020. Correlation between the two parameters is represented with the Pearson correlation coefficient (PCC).

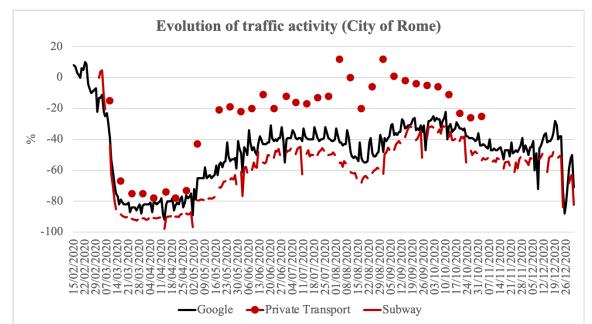


Figure S4: Comparison of Google LCC (2021) traffic movement trends with the evolution of the private transport and access to subway reported by Roma Mobilita (2021) for the city of Rome and the period 21 February to 31 December 2020.

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