

Description of the components

$ISEW_{BCE}$	$ISEW_{BCPA}$	Component	Description	Sources
✓	✓	Unpaid work (UW)	<p>The value of unpaid work is the average time spent on unpaid work multiplied by a replacement wage, for the population aged between 15 and 74 years old: $UW = \text{time spent on unpaid work per person} * \text{population}_{15-74} * \text{replacement wage}$.</p> <p>The time spent on unpaid work includes all activities related to household management, family care, and voluntary work.</p>	<p>Time spent on unpaid work: EU: Eurostat (2023e), OECD (2023d), United Nations (2023), Gershuny et al. (2020), Statistics Estonia (2023), Hungarian Central Statistical Office (2023), National Statistics Office - Malta (2004), Statistiska centralbyrån (2003). NON-EU: Eurostat (2023e), Gershuny et al. (2020), OECD (2023d).</p> <p>Replacement wage: EU: Eurostat (2023d). NON-EU: Eurostat (2023d), OECD (2023b), FRED (2024), ILO (2024).</p> <p>Population: EU: Eurostat (2023c) and Eurostat (2023b). NON-EU: OECD (2023c).</p>
✓	✓	Individual consumption expenditures (C_i)	<p>The value of the individual consumption expenditures is equal to the sum of the Actual Individual Consumption (AIC) and the net services from consumer durables (services - costs): $C_i = AIC + (\text{services from consumer durables} - \text{expenses on consumer durables})$.</p>	<p>AIC: EU: Eurostat (2024e). NON-EU: OECD (2024h).</p> <p>Consumer durables: EU: Eurostat (2024c). NON-EU: OECD (2024i).</p>
✓	✓	Shadow economy (S)	<p>The value of unpaid work is calculated by multiplying an estimate of the size of the shadow economy as % of GDP by the GDP in that year: $S = 0.5 * \text{size of shadow economy} * GDP$.</p> <p>It represents the legal activities that are not taken into account in GDP because they are not traded on the market.</p>	<p>Size of the shadow economy: EU & NON-EU: Elgin et al. (2021).</p> <p>GDP: EU: Eurostat (2024f). NON-EU: Office for National Statistics (2024), BEA (2024), OECD (2024e).</p>

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$ISEW_{BCE}$	$ISEW_{BCPA}$	Component	Description	Sources
✓	✓	Non-defensive government expenditures (G_c)	The non-defensive government expenditures are the expenditures made by the government on goods and services addressed to households but that cannot be attributed to individuals. These expenditures are the sum of general public services expenditures, housing and community amenities expenditures, and recreation, culture and religion expenditures: G_c = general public services expenditures +housing and community amenities expenditures +recreation, culture and religion expenditures .	EU: Eurostat (2024g). NON-EU: OECD (2024f), Central Statistical Service (1997, 1998), Statistics South Africa (1999, 2001, 2002, 2003a,b), Statistics South Africa (2004a,b, 2005, 2006, 2007), Statistics South Africa (2008, 2009, 2010, 2011), Statistics South Africa (2012, 2013, 2014, 2015), Statistics South Africa (2016, 2017, 2018, 2019), Statistics South Africa (2020, 2021).
✓	✓	Defensive, Intermediate, and Rehabilitative Expenditures ($DIRE_p$)	The defensive, intermediate and rehabilitative expenditures are the expenditures that do not increase welfare but that are needed to maintain a certain level of welfare. This component is the sum of expenditures on some defensive, intermediate and rehabilitative goods and services (food, alcohol, tobacco and narcotics, insurance, financial services) and the costs linked to road accidents (number of road accidents * costs): $DIRE_p$ = expenditures on DIRE goods and services +Costs of road accidents.	Expenditures: EU: Eurostat (2024d). NON-EU: OECD (2024g), South African Reserve Bank (2022). Number of road accidents: EU: OECD (2023a), CyStat (2021), Statistics Denmark (2023), LU'STAT (2023), National Statistics Office (1996), National Statistics Office (2019), National Statistics Office (2021), SWOV (2023), Romania - Institutul National de Statistica (2022). NON-EU: OECD (2023a), Stats SA (2024). Costs of road accidents: EU: Bickel et al. (2006). NON-EU: Bickel et al. (2006), National Highway Traffic Safety Administration (2023), International Transport Forum and OECD (2019).

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$ISEW_{BCE}$	$ISEW_{BCPA}$	Component	Description	Sources
✓	✓	Welfare losses from income inequality (INQ)	<p>The welfare losses from income inequality aim to capture the diminishing returns of utility as income grows. These losses are calculated by multiplying the net consumption by an index of diminishing marginal utility based on an income threshold: $INQ = \text{net consumption} * DMUI$.</p> <p>The net consumption is equal to individual consumption expenditures + value of shadow economy - defensive, intermediate and rehabilitative expenditures.</p>	<p>Net consumption: EU & NON-EU: See sources of respective components.</p> <p>DMUI: EU: Eurostat (2024b) and Hickel (2020). NON-EU: Eurostat (2024b), Census (2023), Hickel (2020).</p>
✓		Narrow Ecological Costs (NEC)	<p>The narrow ecological costs are the ecological costs experienced in the present and within a certain country, it is the sum of the current costs of air pollution, the ecosystem costs of nitrogen pollution, and the costs of extreme weather events: $NEC = \text{current costs of air pollution} + \text{ecosystem costs of nitrogen pollution} + \text{costs of extreme weather events}$, where Current costs of air pollution = $0.2 * ((\text{emissions } PM_{2.5} * \text{cost estimate } PM_{2.5}) + (\text{emissions } NH_3 * \text{cost estimate } NH_3) + (\text{emissions } NO_x * \text{cost estimate } NO_x) + (\text{emissions } NMVOC * \text{cost estimate } NMVOC) + (\text{emissions } SO_x * \text{cost estimate } SO_x))$; Ecosystem costs of nitrogen pollution = $(\text{emissions } NH_3 * \text{ecosystem cost estimate } NH_3) + (\text{emissions } NO_x * \text{ecosystem cost estimate } NO_x) + (N_r \text{ consumption} * \text{ecosystem cost estimate } N_r)$; Costs of extreme weather events = Total economic losses from extreme weather events – Insured economic losses from extreme weather events.</p>	<p>Costs of air pollution: EU: Eurostat (2023a) and European Environment Agency (2014). NON-EU: OECD (2024b), European Environment Agency (2014), Muller and Mendelsohn (2012).</p> <p>Ecosystem costs of nitrogen pollution: EU: Eurostat (2023a), Eurostat (2024a) and Van Grinsven et al. (2013). NON-EU: OECD (2024b), OECD (2024a), Van Grinsven et al. (2013).</p> <p>Costs of extreme weather events: EU: Climate ADAPT (2023). NON-EU: Unavailable.</p>

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$ISEW_{BCE}$	$ISEW_{BCPA}$	Component	Description	Sources
	✓	Broad Ecological Costs (BEC)	<p>The broad ecological costs are the ecological costs of the activities taking place today, having an impact in the present in a given country as well as in the future and/or abroad. This component is equal to the sum of the costs of air pollution including trade, the ecosystem costs of nitrogen pollution, the costs of climate breakdown, the costs of nuclear power use, and the costs of depleting non-renewable energy resources:</p> <p>BEC = costs of air pollution +ecosystem costs of nitrogen pollution +costs of climate breakdown +costs of depleting non-renewable energy resources +costs of nuclear power use, where</p> <p>Costs of air pollution = costs of current air pollution +costs of air pollution embodied in trade; Ecosystem costs of nitrogen pollution = (emissions NH_3 *ecosystem cost estimate NH_3) + (emissions NO_x *ecosystem cost estimate NO_x) + (N_r consumption *ecosystem cost estimate N_r);</p> <p>Costs of climate breakdown = (total UNFCCC emissions +emissions from international aviation +emissions from international navigation+ CO_2 emissions from biomass +national LULUCF emissions +(consumption emissions – territorial emissions) +land use change footprint) * SCC; Costs of depleting non-renewable energy resources = primary energy consumption * cost estimate; Costs of use of nuclear power = nuclear electricity generation * cost estimate.</p>	<p>Costs of air pollution: EU: Eurostat (2023a), European Environment Agency (2014), UNEP (2024) and Desaigues et al. (2011). NON-EU: OECD (2024b), European Environment Agency (2014), Muller and Mendelsohn (2012), UNEP (2024), Desaigues et al. (2011).</p> <p>Ecosystem costs of nitrogen pollution: EU: Eurostat (2023a), Eurostat (2024a) and Van Grinsven et al. (2013). NON-EU: OECD (2024b), OECD (2024a), Van Grinsven et al. (2013).</p> <p>Costs of climate breakdown: EU: European Environment Agency (2024), UNEP (2024), Friedlingstein et al. (2023), Ricke et al. (2018) and Tol (2023). NON-EU: OECD (2024c), OECD (2024d), United Nations (2024), Friedlingstein et al. (2023), UNEP (2024), Ricke et al. (2018), Tol (2023).</p> <p>Costs of depleting non-renewable energy resources: EU: Eurostat (2024i) and European Commission (2021). NON-EU: Eurostat (2024i), U.S. Energy Information Administration (2024), European Commission (2021), Net-Zero America (2023), National Business Initiative (ND).</p> <p>Costs of use of nuclear power: EU & NON-EU: IEA (2023) and Held et al. (2018).</p>

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$ISEW_{BCE}$	$ISEW_{BCPA}$	Component	Description	Sources
	✓	Yearly net capital investment (ΔK)	The net capital investments represent the change in capital investment from one year to the next, it is calculated by taking the difference between the capital stock in a given year and in the previous year: $\Delta K = \text{net capital stock in year } t$ – net capital stock in year $t-1$.	EU & NON-EU: AMECO (2023d).
✓	✓	General variables	The general variables are the data for GDP, total population (used to obtain the ‘per capita’ values), the exchange rates, and the GDP deflators.	GDP: EU: Eurostat (2024f), AMECO (2023a). NON-EU: Office for National Statistics (2024), BEA (2024), OECD (2024e). Total population: EU: Eurostat (2024h). NON-EU: OECD (2023c). Exchange rates: EU: AMECO (2023c). NON-EU: AMECO (2023c), The World Bank (2024). GDP deflators: EU: AMECO (2023b). NON-EU: AMECO (2023b), The World Bank (2023).

$$ISEW_{BCE} = UW + C_i + S + G_c - DIRE_p - INQ - NEC \quad (1)$$

$$ISEW_{BCPA} = UW + C_i + S + G_c - DIRE - INQ - BEC + \Delta K \quad (2)$$

This table presents a description of the components included in the two ISEW variants compiled in the report ”The Index of Sustainable Economic Welfare for the EU27 and beyond: methodology, data and results” and should be used in combination with that report and the dataset (DOI report: 10.5281/zenodo.13365469; DOI dataset: 10.5281/zenodo.13365452).

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