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SHINING A LIGHT ON FOSSIL FUEL SUBSIDIES AT THE WTO:

HOW NGOS CAN CONTRIBUTE TO WTO NOTIFICATION AND SURVEILLANCE

NOVEMBER 2013

**LIESBETH CASIER, ROBIN FRASER,
MARK HALLE AND ROBERT WOLFE**



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Published by the International Institute for Sustainable Development.

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International Institute for Sustainable Development

Head Office

161 Portage Avenue East, 6th Floor, Winnipeg, Manitoba, Canada R3B 0Y4
Tel: +1 (204) 958-7700 | Fax: +1 (204) 958-7710 | Web site: www.iisd.org

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How NGOs can contribute to WTO notification and surveillance

Liesbeth Casier,¹ Robin Fraser,² Mark Halle,¹ Robert Wolfe²

¹ International Institute for Sustainable Development, Geneva

² School of Policy Studies, Queen's University

We are grateful for the comments and advice of Terry Collins-Williams, Luca Rubini, Ronald Steenblik and colleagues in the IISD Global Subsidies Initiative, none of whom is responsible for our interpretations and mistakes; and for the support of the ENTWINED research consortium, a project funded by the MISTRA Foundation of Sweden.



ABSTRACT

Fossil fuel subsidies undermine efforts to mitigate climate change, and they damage the trading system. Multilateral discussion is hampered by inconsistent definitions and incomplete data, which could increase the risks of WTO disputes. Members do not notify such subsidies as much as they should under the Agreement on Subsidies and Countervailing Measures (ASCM), which limits the usefulness of the SCM Committee. The reports of the Trade Policy Review Mechanism on individual countries and on the trading system draw on a wider range of sources, creating an opportunity for non-governmental organizations (NGOs) to provide the missing data from publicly available sources. We suggest a new template that could be used for such third-party notifications. The objective is to shine a light on all fossil fuel subsidies that cause market distortions, especially trade distortions. The result should be better, more comparable data for the Secretariat, governments, and researchers, providing the basis for better-informed discussion of the incidence of fossil fuel subsidies and rationale for their use.

Energy subsidies can foster sustainable development, just as they can undermine it. Sustainable development cannot be left on the shelf as a grand aspiration to be trotted out when leaders need to make an inspirational speech. It has to be built from the bottom up in full knowledge of the intricate detail of the multilateral system. Disciplines on energy subsidies are weak, but the World Trade Organization (WTO) could offer more analysis and opportunities for discussion of reform. The first step is making more information available about fossil fuel subsidies. This paper offers a proposal on how to achieve that objective.

Global fossil fuel subsidies are estimated to run at more than US\$600 billion each year (GSI, 2013a). These subsidies, found in both developed and developing countries, significantly undermine sustainable development, presenting both a lost opportunity to spend government funds on other development priorities and an obstacle in the transition to a low-carbon future. In addition to encouraging carbon emissions, fossil fuel subsidies burden government budgets, create market distortions and often do not meet the goals for which they were designed in the first place, such as providing energy access to the poor. In the absence of a global price on carbon, it is imperative that we develop a more accurate picture of such subsidies, ideally in a context where governments can discuss the rationale for their use and the prospects for reform.

Governments increasingly acknowledge the need to do something about fossil fuel subsidies, at least those that, according to G-20 Leaders, “encourage wasteful consumption, reduce our energy security, impede investment in clean energy sources and undermine efforts to deal with the threat of climate change” (G-20, 2009). The International Energy Agency (IEA) and the Organisation for Economic Co-operation and Development (OECD) now publish regular estimates of budgetary support and tax expenditures for fossil fuel in developing and developed countries, while the World Bank and the International Monetary Fund (IMF) are increasing the level of support offered to developing countries to assist their national reform processes. Over 110 countries mentioned fossil fuel subsidy reform in their submissions to the preparatory process for the 19th Conference of the Parties to the UN Framework Convention on Climate Change; however, binding international commitments to reform fossil fuel subsidies are unlikely in the near term. Identifying a new pathway to achieve practical results would focus the efforts of civil society and government champions.

Although many experts argue that energy should have a central place within the WTO, potentially in a separate agreement covering its different trade-related aspects (Cottier et al., 2011; International Centre for Trade and Sustainable Development [ICTSD], 2011), currently the rules applicable to energy, including energy-related goods and services, are to be found in different agreements: *the General Agreement on Tariffs and Trade* (GATT), *the Agreement on Subsidies and Countervailing Measures* (ASCM), *the General Agreement on Trade in Services* (GATS) and *the Agreement on Agriculture*. All goods sectors are covered by the ASCM, but the applicability of the rules to fossil fuel subsidies is not clear. Nevertheless, we think that the WTO offers an appropriate forum for addressing issues relating to such harmful subsidies.

Fossil fuel subsidies, both to producers, often in rich countries, and to consumers, often in poor countries, have the potential to distort markets and resource allocation and hence trade flows, not least in industries for which energy is an important intermediate input, like steel, aluminum, glass and cement (Steenblik, 2010). To the extent that they subsidize final consumption of fossil fuels, such subsidies can increase imports, which is not normally seen as harming trade. Nevertheless, while injury to specific firms or trading partners may be hard to establish, the harm to the trading system is clear.



The inclusion of fisheries subsidies on the agenda for the Doha Round set a precedent for negotiations on subsidies that have negative impacts beyond trade distortion. Reaching consensus on the fact that fisheries subsidies represented a suitable subject for WTO negotiations took years of effort by international organizations, governments, and NGOs. First was the patient work of the Food and Agriculture Organization of the United Nations (FAO), United Nations Environment Programme (UNEP), regional fishery commissions and OECD in gathering information on the state of fish stocks and monitoring the effects of fishery operations. Second was a series of multilateral agreements that began to build a governance regime for fishery management. Third was the building of an unconventional alliance of countries concerned with the impact of fish subsidies on efforts to manage fish stocks sustainably. Fourth was the analytic and campaigning power of civil society groups like the World Wildlife Fund (WWF) and the International Institute for Trade and Sustainable Development (ICTSD). These groups demonstrated the need for reform, reframed the issue in WTO language and created pressure for action. The lesson is simple: without careful scientific and political preparation, and without the formation of effective alliances, new issues brought to the WTO are unlikely to be accepted or, where they are, to advance (Steenblik, 1998).

The inability to conclude the fisheries subsidies negotiations suggests, however, that formally binding rules on fossil fuel subsidies may not be achievable in the near term. The recent disputes on renewable energy similarly suggest that reliance on litigation to clarify rules deliberately left ambiguous by Members may also not be the best solution (Rubini, 2012, p. 558). We believe that Members, rather than the Appellate Body, should set the scope for bad or good subsidies (Casier & Moerenhout, 2013), but if Members do not begin to discuss the problem, the Appellate Body may be solicited more often in future. It would be perverse to leave many fossil fuel subsidies undisciplined while support for the development of renewable energy is further entangled in contradictory rules (Meyer, 2013). If the WTO is to play a role, however, it will have to be within existing rules. Better transparency could help.

Trade policy transparency is an important tool for advancing policy objectives and a non-coercive instrument for improving the operation of the trading system (Wolfe, 2013). One of the questions in any international legal regime is the extent to which differing national laws are functionally or recognizably similar. Transparency mechanisms allow verification by other Members that national law, policy, and implementation achieve the intended objective. Such transparency is also the basis for one actor to try to influence another actor to act differently. As a result of questions and challenge in a committee, a government may provide more information, change policy, or pressure other units of government to respond. Using WTO mechanisms for transparency and surveillance would allow Members to discuss and negotiate the incidence and logic of subsidies instead of filing one dispute after another. The ASCM should be a useful tool, but this agreement is less effective than it ought to be: Members either fail to notify their subsidies, or notify only sporadically, and late. Inadequate transparency and surveillance in the Subsidies and Countervailing Measures (SCM) Committee increases the risk of resort to the dispute settlement system. An alternative is needed.

We begin in the next section by clarifying what is meant by “subsidy,” and how that shapes the information available on fossil fuel subsidies. Our alternative to reliance on dispute settlement to clarify WTO rules focuses on improving transparency and surveillance, which we believe is more feasible given the current state of negotiations in the Doha Round, but Members are unlikely to notify all their fossil fuel subsidies to the SCM Committee. One way to encourage notification of such subsidies would be to allow them to be potentially “non-actionable” under Article 8 of the ASCM, but this article lapsed in 2000; in the second section we show why it is unlikely to be restored. In the third section we suggest that the Trade Policy Review Mechanism (TPRM) offers a better immediate forum. We show that the TPR Secretariat has the ability to use information from a wide variety of sources, which creates an opportunity, discussed in the fourth section, for non-governmental organizations (NGOs) to provide such third-party notifications. For data to be useful they ought to be provided in a standard format; in the fifth section we propose a new template that NGOs could use to notify publicly available information on fossil fuel subsidies to the WTO. We believe the WTO offers both a framework and mechanisms for reviewing a broad range of trade-related policies. In the conclusion, we discuss the broader implications of how such engagement with civil society can contribute to the functioning of the WTO. Improving the existing transparency and surveillance mechanisms would allow Members to discuss both subsidies that foster sustainable development and inefficient subsidies that present a threat to the trading system, energy security and the global climate.



1. WHAT IS A SUBSIDY? AND WHAT DATA ARE AVAILABLE?

This paper depends on two conceptual steps. First, we need a definition of “subsidy.” The notion that some actions of governments are subsidies and others not may seem simple in economic theory, leading to claims that one definition would do, but in practice definitions serve particular policy and analytic purposes. What can be measured—and disciplined—depends on those definitions. Second, the availability of data has been shaped by the definitions, with the result that some debates about the extent and scope of energy subsidies are due to variations in how they are measured (Steenblik, 2010).

In thinking about a definition, we need not work through the full complexity of the meaning of the term (Jones & Steenblik, 2010), but we need to make it operational for our purposes. While our focus is on fossil fuel subsidies, any definition ought to be able to identify subsidies whose benefits for sustainable development outweigh any harm to the trading system. That is, we should be able to identify subsidies to renewable energy in the same analytic framework as fossil fuel subsidies, with common metrics to allow comparisons between data collected by different organizations.

The international organizations charged with action on fossil fuel subsidies differ in their definitions and in their calculation method. Some overlap; some parts are significantly different. The WTO definition of subsidies in general is based on legally binding reciprocal obligations aimed at improving the conditions of multilateral trade through disciplines on government policy. Other international organizations have more latitude to use specific definitions of fossil fuel subsidies designed for analytic purposes or, especially in the case of the International Monetary Fund (IMF), to support a process of domestic reform. In this section we describe how each organization defines subsidies in general or fossil fuel subsidies in particular. We conclude the section with a discussion of the implications for the availability of data.

Organisation for Economic Co-operation and Development (OECD)

Since its inception as the Organisation for European Economic Co-operation (OEEC), the OECD has been concerned about state support to economic actors. But while the OECD Secretariat has worked on industrial subsidies, environmentally harmful subsidies, and agriculture “support,” it applies no common definition.

In its assessment of agricultural support, the OECD chose to make a distinction between Producer Support Estimates (PSE) and Consumer Support Estimates (CSE). While the former consist of support to agriculture producers, the latter measure transfers to consumers of agricultural commodities (OECD, 2010). The same concept is now being used for fossil fuels. The OECD measurement of support for fossil fuels includes both direct budgetary expenditures and tax expenditures that in one way or the other provide a benefit or lead to a preference for fossil fuel production or consumption in comparison to alternatives. The OECD Secretariat admits that for analytic reasons, the scope of what is considered “support” is deliberately broader than some conceptions of “subsidy” (OECD, 2012, p. 20). For example, the inventory includes “general service” expenses arising as a result of coal mining and the transition away from coal mining in European countries, including early-retirement payments for coal miners, support for decommissioning and restructuring of the coal mining industry, and even programs financing remediation of environmental damage caused by coal mining. Such programs would likely not fall within the WTO or IEA definitions, or indeed the conventional understanding, of fossil fuel subsidies.

The OECD database has other limitations. Measuring tax expenditures is less straightforward than measuring direct budgetary expenses, which can be readily identified from government accounts. To calculate the tax expenditures a benchmark has to be used. This benchmark is country-dependent because every country has a different perspective on the “normal” taxation against which fossil fuel taxation is measured. The benchmark is also highly dependent on the nature and role of the overall taxation system of a country. In consequence the inventory was not designed for international comparability (OECD, 2012, pp. 32–36).

The OECD Inventory also does not yet include estimates of government support provided through risk transfers, concessional credit, and injections of funds into state-owned enterprises. Market price support (transfers from consumers and taxpayers to energy producers arising from policy measures creating a gap between domestic producer



prices and reference prices of a specific energy commodity) is also not included (OECD, 2012, p. 22). Transfers through price gaps on the consumer side do not exist in OECD countries, with the exception of Mexico, but are included in the estimates of fossil fuel (consumption) subsidies by the IEA.¹

International Energy Agency (IEA)

The International Energy Agency definition of fossil fuel consumption subsidies is based on the price-gap approach, whereby the national end price to consumers is compared to an international reference price. When the international reference price is higher than the end-user price, the difference is assumed to be due to a subsidy. While this method is relatively straightforward, the disadvantages have to be kept in mind (IEA, 2013).

First, discussions continue on the calculation of the reference price. Second, this method will not capture a subsidy that is not reflected in the end-user price of the fossil fuel. For example, governments can decide to subsidize domestic oil and gas producers who in turn use the subsidies for technological changes or for exploring reserves that they could otherwise not afford. These actions, however, do not necessarily lead to a change in the market price of fossil fuels, yet they are clearly subsidies (Koplow, 2009). Third, in many OECD countries end-user prices are set at the reference price level, or even above due to taxes, which does not mean that no subsidies for fossil fuels exist in these countries.

The IEA captures fossil fuel consumption subsidies in developing countries, which are not estimated by the OECD, but leaves out the subsidies of developed countries, including those of IEA Members. The two datasets are therefore to some extent complementary. The IEA data are only quantitative and not well documented, while the OECD Inventory gives an overview of the policy measures behind the numbers as well. IEA data come from market calculations by the IEA while the data of the OECD come from government sources. Both include the amount of the subsidy but the OECD information is more complete and more useful because it not only reports on the amount of the subsidy, as the IEA does, but also provides information on the department that is responsible for the subsidy, what type of subsidy it is (tax exemption or direct transfer), the conditions for getting the subsidy, and so on. The IEA does not provide this information.

International Monetary Fund (IMF)

The IMF defines energy subsidies in a broad way to include both production and consumption subsidies (IMF, 2013). The IMF first calculates consumption subsidies according to the price-gap method, resulting in what they define as the pre-tax subsidy, when the price that the consumer pays is below supply and distribution costs. In a second step, the IMF also calculates a post-tax subsidy to draw a full picture of subsidies to consumption. The post-tax subsidy arises if the tax on fossil fuels is below a rough approximation of its efficient level. Efficient taxation would require that (1) all consumption of fossil fuels is subject to taxation and (2) that a corrective tax is introduced to capture the negative externalities of fossil fuel consumption. Note that the IMF relies both on IEA data and the OECD Inventory. The main differences in their conclusions lie in the calculation by the IMF of a corrective tax for negative externalities.

The Group of Twenty Leaders' Summit (G-20)

Definitional ambiguity bedevils the commitments made by G-20 Leaders in 2009 to phase out inefficient fossil fuel subsidies, which encourage wasteful consumption.² Their Working Group on Energy and Commodity Markets, which is responsible for progress on the commitment, has not agreed on a definition, which leaves G-20 Members with discretion to use their own definition, with the unsurprising result that 11 Members claimed that they had no inefficient fossil fuel subsidies to report (Koplow, 2012; GSI, 2013b). It is unclear what kind of subsidies countries do address in their voluntary reports, which are incoherent and do not give a proper overview of the fossil fuel subsidies of a country. In order to improve progress on the commitment, at the 2012 Summit in Los Cabos G-20 leaders requested Finance Ministers to develop a voluntary peer review process to increase transparency in the fossil fuel subsidies debate. Different forms of peer-review mechanisms have been discussed by the Working Group, but no concrete steps have been taken. G-20 peer

¹ The panel in the Canada Renewable Energy case dodged the question of whether such measures constitute price support.

² The exact language was agreement "To phase out and rationalize over the medium term inefficient fossil fuel subsidies while providing targeted support for the poorest. Inefficient fossil fuel subsidies encourage wasteful consumption, reduce our energy security, impede investment in clean energy sources and undermine efforts to deal with the threat of climate change" (G-20, 2009).



review may eventually provide a forum in which officials can discuss fossil fuel subsidies issues, but is unlikely to lead to a significant increase in reporting of subsidies in the short term, although the peer review teams might refer to data reported elsewhere.

World Trade Organization

Nobody doubts that subsidies can have an effect on trade, and subsidies were covered in GATT 1947, but negotiators were unable to devise a practical definition of subsidy until the conclusion of the Uruguay Round in 1994. The first part of the definition of a subsidy in Article 1.1 of the ASCM requires a financial contribution or price or income support provided by the government. The finite list of types of financial contributions includes: when a government transfers funds directly; when government revenue that is otherwise due is foregone or not collected; when a government provides goods or services below the market rate or purchases above the market rate; or when a government works through a funding mechanism to provide any of the aforementioned financial contributions. This list is the basis for the left-hand column of the GSI energy subsidies checklist found in Annex 1 below. The second part of the definition, Article 1.2, requires that a benefit be conferred to the recipient, which entails an exercise of comparison between a situation where a recipient receives the financial contribution and one where it does not.

Both Articles 1.1 and 1.2 imply that certain economic support measures do not fall under the scope of the ASCM and are therefore unregulated by the WTO, and do not need to be notified. The ASCM classified subsidies as either prohibited, actionable or non-actionable. Two categories of subsidies, import substitution and export subsidies, are prohibited (Article 3). In order for a Member to take action against a “harmful” subsidy of another Member, a subsidy has to be specific (Article 2) and the adverse effects have to be demonstrated (Article 5 and 6). (We will have more to say on the non-actionable category below.)

The subsidy definition is designed to be applied by Members either in notifying specific subsidies to the SCM Committee (Article 25), in the application of countervailing duty measures (ASCM Part V), and in making a complaint in the dispute settlement system. The SCM Committee is mandated to examine these subsidy notifications on a regular basis (Article 26). Under Article 25.8 of the ASCM Members are allowed to request information on subsidies that they think another Member was obliged to notify, and Article 25.10 provides a formal mechanism through which Members can counter-notify subsidies of another Member.

This definition is sufficiently ambiguous with respect to both specificity and benefit to the recipient that Members are not always clear about what it covers, and the jurisprudence is confusing. In the Canada-Renewable Energy case, for example, both the original panel and the Appellate Body struggled with finding the appropriate benchmark for comparison, with insufficient evidence to demonstrate that a benefit was conferred. The Panel also could not agree on the definition of a subsidy, resulting in a dissenting opinion of one panelist. On appeal, the Appellate Body avoided ruling on whether the disputed measure, Ontario’s Feed-In Tariff program, constituted a subsidy (WTO, 2012a; WTO 2013a; see also Casier & Moerenhout, 2013). This conceptual ambiguity is not new, and it affects the quality and amount of information available from WTO notifications. Only subsidies that meet the ASCM definition have to be notified, but when a benefit analysis is inconclusive, Members may decide not to notify the measure.

Early on, the SCM Committee designed a questionnaire for subsidy notifications under Article 25 and established procedures for annual Committee review of notifications (WTO, 2003e). It soon became apparent, however, that WTO Members, including many of the largest developed Members, were woefully deficient in meeting the notification obligations—and they still are (WTO, 2012b). Given the inadequacies and ambiguities of the notification questionnaire derived from the ASCM, the poor quality of the data is not surprising.

The SCM questionnaire states that the following subsidies are subject to notification: “a) all **specific** subsidies, ...; and b) all other subsidies, which operate directly or indirectly to increase exports...” The legal text and the jurisprudence fail, however, to clarify the conditions under which subsidies are specific. Indeed the concept lacks any real economic justification: it is just an administrative—and pliable—tool to select measures (Rubini, 2009, pp. 359-366). The distinction between a specific and non-specific subsidy in economic terms does not seem to make much sense. A subsidy that is used to correct a market failure might well be as effective (or more effective) when targeted at particular



industries or enterprises than a generally available subsidy (Howse, 2010). The general rule is that specific subsidies are those that only apply to certain enterprises. The Article explains that only when conditions for eligibility of a subsidy are clearly defined in law can a subsidy be specific. But even if that is not the case a subsidy can be de facto specific if a particular industry or sector benefits disproportionately.

Also difficult is that part of the questionnaire that requests “Statistical data permitting an assessment of the **trade effects** of the subsidy.” Whether a subsidy has trade effects requires a judgment by the notifier, one that does not lend itself to a quick assessment by government officials—not surprisingly, such data (which may be perceived as a confession inviting a dispute) are rarely provided (Collins-Williams & Wolfe, 2010). But Members do notify all kinds of subsidies, both ones that are clearly specific, and ones that might be general at first sight but may be specific when taking into account all elements for the application of the subsidy. Given the different, incomplete and sometimes unclear notifications that Members have submitted to the WTO, it seems Members are not clear on what the definition covers and as a consequence are unclear on which subsidies they ought to notify. Rubini (2012) therefore concludes that since governments will find it difficult to develop support measures that will be shielded from specificity and consequently avoid the discipline of the ASCM, all subsidies should be notified to the WTO allowing questions to be asked in the committee.

Summary: Comparing definitions and data

Given these differing definitions used by international organizations, it is hardly surprising that what they report differs. The IEA, reflecting its long expertise in monitoring energy markets, uses market data and can, as a result of its methodology, miss government measures that clearly amount to economic support, or it might include elements that constitute a price gap that is not a cause of governmental action. Similar problems affect the IMF data.

Definitional ambiguities notwithstanding, our review of notifications under the ASCM found that Members have sporadically notified a variety of support measures (grants, loans, tax and excise exemptions and others) that amount to fossil fuel subsidies, even if not labeled as such. The United States and Japan have been particularly forthcoming; the United States even notified several sub-federal subsidization programs, notably an oil- and gas-production tax credit offered by the state of Alaska to promote oil exploration and drilling. The notified Japanese measures were mostly related to overseas oil and gas exploration and to R&D. India has notified several sub-federal fossil fuel subsidy programs in the fishery sector, typically consisting of rebates on fuel taxes for “poor fishermen.” (Fuel subsidies, which may account for 20 per cent of fisheries subsidies, were a major sticking point in the Doha Round negotiations.) The most recent Russian subsidy notifications include only one fossil fuel program, although independent researchers have been able to identify a range of fossil fuel subsidies based on the SCM definition (Gerasimchuk, 2012).

The OECD Inventory (OECD, 2012) relies on publicly available government data, which is information that could have been notified to the WTO. A comparison found that in most cases the OECD Inventory covered many more support measures than the WTO notifications, and in more detail, as shown in Annex IV. Where the OECD inventory contains 640 measures for the 2008–2013 period, the WTO has only 64. Particularly on the sub-federal level, the OECD Inventory, compiled by the Secretariat, included more than governments themselves notified to the WTO, especially for Australia, Canada and the United States, although the United States was able to notify some sub-federal level subsidies to the WTO. Our comparison in Annex IV includes reports to the G-20, since leaders have called for voluntary reporting and peer review. The G-20 data are also inadequate, finding only 35 measures thought to fall within the reporting obligation, because states are required to report only on *inefficient* fossil fuel subsidies that contribute to wasteful consumption, which is of course open to interpretation. Some inconsistencies between the G-20 and the WTO are puzzling, perhaps owing to the differing definitions, or the nature of subsequent surveillance. We see detailed reporting of fossil fuel subsidies by Japan in the SCM Committee, but in the G-20 Japan reports that it has no inefficient fossil fuel subsidies. In contrast, Argentina, Canada, Indonesia and Italy reported fossil fuel subsidies to the G-20, but not to the WTO.

One of the strengths of the WTO is the opportunity for Members to hold each other to account, for example by reviewing subsidies notifications in the SCM Committee.



TABLE 1 QUESTIONS ASKED ABOUT FOSSIL FUEL SUBSIDIES PROGRAMS IN THE SCM COMMITTEE, 2008-2013

COUNTRIES	# OF QUESTIONS RECEIVED	# OF QUESTIONS ASKED (OF OTHERS)
Australia	0	3
Brazil	1	1
Canada	0	2
European Union	2	2
India	1	3
Japan	1	0
Korea	1	0
Mexico	1	0
Taiwan	1	0
Turkey	0	1
Ukraine	1	0
United States	5	2
Totals	14	14

Source: SCM Committee minutes G/SCM/M/62 through G/SCM/M/84.

As Table 1 shows, our probe of the most recent five years' experience in the committee found that Members did raise questions about fossil fuel subsidies notification. Some questions were related to the identification of beneficiaries of the subsidies and eligibility criteria, information that according to the WTO questionnaire should have been provided with the notification, but the committee has not yet had a thorough discussion of fossil fuel subsidies. While not directly relevant to the focus of this paper, we note in passing that the record of notification and surveillance of renewable energy subsidies is stronger, as shown in Table 2.



TABLE 2 SCM COMMITTEE NOTIFICATIONS AND QUESTIONS ABOUT RENEWABLE ENERGY SUBSIDIES, 2008–2013³

	PROGRAMS NOTIFIED	QUESTIONS ASKED	QUESTIONS RECEIVED
Australia	3	1	2
Brazil	0	2	0
Canada	4	3	1
China	3	0	1
Costa Rica	1	0	0
EU	38	6	3
India	0	2	0
Japan	5	2	6
Norway	3	0	0
Taiwan	0	1	0
Turkey	0	1	0
United States	69 (6 federal)	6	11
total	57	24	24

Both the rate of notification of fossil fuel subsidies and the paucity of questions in the committee are no doubt a reflection first of the ambiguities with respect to the definition of subsidies discussed above, and of the usual “glass house” syndrome. Members do notify some fossil fuel subsidies (perhaps the ones that are least likely to be challenged?), and they do ask for more detailed information on the notified support measures. If the information available from the WTO were comprehensive in its coverage of countries and measures, this paper would not be necessary. But the information on fossil fuel subsidies is inadequate, as it is for subsidies generally (on the inadequacy of subsidies notification in general, see Collins-Williams & Wolfe, 2010).

In sum, the WTO already discusses fossil fuel subsidies, but inconsistently and based on data that are less complete than those available to other international organizations, but it has a treaty-based definition of “subsidy,” and robust surveillance mechanisms that could be better used. If we wish to improve discussion of fossil fuel subsidies, we need to think about how to improve the data available, but the prior question is where such data could be used at the WTO. In the next section we discuss why the SCM Committee is not a candidate.

³ Source: SCM Committee minutes G/SCM/M/62 through G/SCM/M/84. Each separate instance of questioning of or by a country, or of or by the EU, was counted (rather than each individual question). Each G/SCM document raising questions about another country’s renewable energy subsidies, even if containing multiple questions about several renewable energy programs, was counted only once.



2. WHAT HAPPENED TO “NON-ACTIONABLE” SUBSIDIES IN THE WTO?

The WTO struggles with disciplines on subsidies. On the one hand, subsidies have the potential of creating unfair competitive advantages, leading to trade distortions. On the other hand, subsidies are a useful instrument for economic and social purposes. Unfortunately, Members do not always agree on which is which. Both the ASCM and the *Agreement on Agriculture* use a traffic light system. In agriculture, Article 7 and Annex 2, known as the Green Box, cover domestic support that is thought to be “minimally trade distorting.”⁴ The analog in the ASCM was Article 8 on “non-actionable” subsidies, but that provision of the agreement has lapsed. A revived Article 8 that included energy subsidies is one of the possible mechanisms that would allow Members to notify their fossil fuel subsidies in a way that would increase the availability of information, and provide the basis for discussion on such subsidies in the SCM Committee.

While a revival of the category of non-actionable subsidies is often discussed within the context of government support for renewable energy (Howse, 2010), in this section we explore whether a revival of Article 8 would be a way to bring more information on fossil fuel subsidies to the SCM Committee.⁵ Notification of a measure as potentially non-actionable would neither shield a measure nor increase the risk of a complaint (we discuss transparency and the risk of disputes below), but aside from specificity and trade effects, Members ought to be able to discuss whether the harm to or benefit for the planet of a particular subsidy is a relevant policy consideration. In this section we discuss the possibilities for a revival of the non-actionable category by looking at the negotiating history of Article 8.

From the start, the Uruguay Round negotiations that created the ASCM reflected ideological differences between Members on subsidies. The United States, unlike other leading Members, such as the EU, Switzerland, and Canada, had never been in favour of subsidization in general because of possible market distorting effects (Stewart, 1993, pp. 875-877). But negotiators recognized that because subsidies can be used to correct market failures and can be desirable when pursuing certain economic and social objectives, not all subsidies should be prohibited or subject to countervailing duties (GATT, 1987c). In the early days of the Uruguay Round doubts were even raised as to whether Members would give up their sovereign right to use subsidies (GATT 1987c, p. 3).

In 1988 Switzerland proposed a traffic light approach, establishing three categories of subsidies, and attaching different legal effects to each of them (GATT, 1988b; Croome, 1998). A first category consists of export subsidies and local content subsidies that are aimed at giving domestic industries competitive advantages. These subsidies would be prohibited. A second category consisted of actionable subsidies and could be subject to countervailing duties when it has been established that material injury is caused. A third category was the “green light” category and consisted of subsidies that do not have a trade-distortive effect or that should be allowed because they serve a purpose that would be accepted as legitimate.

While there was a relatively broad consensus on the non-actionability of generally available subsidies (the ones without a trade distorting effect), the list of other non-actionable subsidies was more problematic (GATT, 1989d; GATT, 1990b). Some negotiators questioned why the “green light” category had to exist in the first place (GATT, 1989c), some wanted a strict definition of non-actionable subsidies, and others advocated for a broad category in which the intent of a subsidy has to be taken into account when assessing its non-actionable status. Other Members underlined the need for taking the effect of a subsidy into account, not its intent (GATT, 1988a; GATT, 1988c, p. 11). Developing countries wanted to include structural adjustment subsidies under the non-actionable category (GATT, 1989f); other countries did the same for regional subsidies, and the EC, Canada and Switzerland were strongly in favour of carving out environmental subsidies and R&D subsidies (GATT, 1987b; GATT, 1989a; GATT 1989b; GATT, 1989g; GATT, 1989h).

⁴ Green Box measures, being specific, might be actionable in the ASCM were they not exempted by Article 13 of the Agriculture agreement.

⁵ Other suggestions to include fossil fuel subsidies under WTO negotiations have been made. For example, in the negotiations on environmental goods and services, one can argue that fossil fuel subsidies are an important barrier to the development of renewable energy-related goods and their dissemination; they could therefore be addressed under the barriers to environmental goods and services (Howse, 2010).



During preparations for the Brussels Ministerial Conference in 1990, the United States remained strongly opposed to the category of non-actionable subsidies (Croome, 1998, p. 173-174), while the EC pursued a more nuanced perspective in the sense of being prepared to allow subsidies with no significant effect on international trade (Stewart, 1993, p. 975-877). The U.S. approach to non-actionable subsidies changed after Bill Clinton became President in 1993. The general view that subsidies were bad was more nuanced than before because the new administration saw R&D as particularly important for the U.S. economy (Doane, 1995). This shift in the position of the United States helped to facilitate a conclusion to the negotiations on the ASCM.

Uncertainty about the non-actionable category was reflected in Article 31, which required a review after five years with a determination of whether to extend or modify Article 8. In the last meeting of the SCM Committee before the 1999 Ministerial Conference in Seattle, some Members (e.g., Switzerland and Canada) worried that not extending Article 8 would give the wrong signal to the public and would “reduce the ability of the ASCM to address environmental concerns” (Bigdeli, 2011, p. 9). Several developing country Members countered that extension of the provision in its present form would be unacceptable since the category provided advantages only for developed countries (WTO, 1999). The United States had mixed views on the extension, noting that in the five years of its provisional application, no non-actionable subsidy had been notified (Bigdeli, 2011). In the absence of consensus, the category lapsed almost unnoticed shortly after the 1999 Seattle Conference.

Members showed little interest in negotiations on any subsidies issue during the Doha Round, with the exception of fisheries subsidies, but Venezuela, Cuba and the EU each submitted proposals on non-actionable subsidies. The proposal of Venezuela emphasized that Article 8 could not be reactivated without modification to ensure that developing country structural adjustment subsidies would not be subject to countervailing measures or challenges in a dispute (WTO, 2002a). Developed countries were skeptical of the proposal, and other developing countries argued that the provision would have to be reformulated and be more balanced with regards to the interest of developing countries (WTO, 2003a; WTO, 2003c; WTO, 2003d). The EU proposal to reactivate Article 8 started from the perspective of why the category was never used (WTO, 2002b). The discussions quickly showed that the diverging opinions that were already present in the Uruguay Round negotiations had not disappeared. Similarly, the discussions on fisheries subsidies, where some proposals were made to classify “good” and “bad” subsidies, resulted in the same outcome: countries could not agree on the classification criteria and expressed considerable scepticism about whether the real purpose of the proposal was conservation of fish stocks, not the effects of subsidies on trade.

The different opinions on which subsidies could be considered non-actionable and which ones not indicate that a revival of the non-actionable category only for the purpose of environmental subsidies would be difficult, and would inevitably lead to long negotiations with all kinds of other subsidies proposed for the non-actionable category (Horlick, 2013). And yet this history shows that negotiators have long understood that subsidies that have an environmental effect are an issue. For years after the lapse of Article 8 it seemed that governments acted as if the provision was still in place; that is, Members understand the logic of why certain subsidies ought to be non-actionable, and have acted accordingly. Until 2010, cases on energy-related subsidies were rare, perhaps reflecting a tacit agreement not to challenge programs designed to promote renewable energy (Rubini, 2012). That tacit agreement now seems fragile.



3. ROLE OF THE TRADE POLICY REVIEW MECHANISM (TPRM)

With no prospect of restoring the non-actionable category to the ASCM, a helpful alternative forum to generate more information about fossil fuel subsidies with an opportunity for discussion is the Trade Policy Review Body (TPRB).⁶ The central objective of the TPRB is “to contribute to . . . the smoother functioning of the multilateral trading system, by achieving greater transparency in, and understanding of, the trade policies and practices of Members.” The TPRB generates three sorts of reports—the periodic Trade Policy Review (TPR) of each Member (WTO, 2011a, paras. 178 ff.), the annual review of the state of the trading system, and the monitoring reports on measures taken in response to the financial crisis. In these reports to the TPRB, issued on the authority of the Director-General, not Members, the Secretariat sometimes warns or expresses worries on the basis of its analysis, but never criticizes Members explicitly, and never comments on their rights and obligations under the WTO agreements. Discussion in the TPRB therefore does not imply either that a measure is or is not actionable.

Monitoring subsidies falls within the mandate of the TPRB. Subsidies, called “General Economic Support Measures,” have been a particular concern in the crisis monitoring exercise because they clearly increased after September 2008, with undoubted effects on the trading system for good as well as ill, but neither the SCM Committee nor the TPRB has enough data to form a complete picture. Annex 4 of the most recent annual monitoring report (WTO, 2012d) is a valiant attempt, but the Secretariat observed that assessment is inevitably biased because of the paucity of information provided by Members, sometimes because they claim that the relevant supports are not “new measures” and hence not covered by the process. The TPR reports on individual Members face the same difficulty. Data on support measures are found in various sections of the reports rather than in one place. While the reports are one of the few sources of systematically collected subsidies data, they are not strictly comparable, the Secretariat observes, because absence or presence of data in the report on any one country may be an artifact of the information problems, rather than an indication that the member does or does not maintain such subsidies (WTO, 2012d, para. 118).

The reports already take notice of energy subsidies. Indonesia’s energy consumption subsidies are large, and well known, at 28.9 per cent of central government spending in one recent year (WTO, 2013c, para. 1.11). The TPR report by the Secretariat includes information on energy subsidies and the problems of their reform that were not included in the report that was prepared by Indonesia. In the last annual report on the trading system, Annex 4 on general economic support measures includes both confirmed information and a part on recorded but not confirmed information. There is a confirmed Brazilian subsidy program for ethanol mentioned, and an unconfirmed U.S. tax credit for the wind power industry (WTO, 2013b, pp. 68 & 72).

Scholars recognize the potential of the TPRM as a forum where both the trade policies of Members and issues that go beyond trade to include the broader economic policy of a country can be discussed without prejudice to legal compliance with WTO obligations (Chaisse & Matsushita, 2013, pp. 13-14; see also Charnovitz, 2010, pp. 755-756), but opinions diverge about the scope of its mandate and on how to improve the mechanism. Developing countries are hesitant to give the monitoring and surveillance mechanisms in the WTO more weight out of a fear that the bigger, more powerful Members would prescribe their trade policies (Ghosh, 2010). Some academics consider the current mandate too restrictive (Ghosh, 2010, pp. 437-438), others hold that the TPRM within its current mandate can be improved with respect both to information gathering and the participation of civil society (Zahrnt, 2009, pp. 11-12). The Director-General stretched the mandate in 2009 to justify monitoring measures related to the financial crisis as requested by the G-20 (Wolfe, 2012). In 2011 the Ministerial Conference formally recognized the crisis-monitoring exercise and asked that it be continued and strengthened (WTO, 2011d).

The core of each TPR report is based on the notifications from Members, but each report depends on a far wider range of information. The Secretariat collects data from official sources (questionnaires to Member under review) and non-official sources, including from other international organizations, media reports, and NGOs (Ghosh, 2011: 431; Chaisse & Matsushita, 2013; Hoekman, 2011, pp. 18-19). To ensure accuracy, the Secretariat seeks verification of the data from non-official sources when discussing the draft of its report with the Member (WTO, 2011a, para. 180).

⁶ Robert Howse has recently suggested that the SCM Committee could adopt an interpretive statement creating policy space for renewable subsidies, something surely not needed by fossil fuel subsidies, but we do think that their harm to the trading system is sufficiently ambiguous that surveillance will be more valuable than dispute settlement.



The crisis monitoring reports and annual reports on the trading system use a similar method. The 2012 monitoring report notes that responses were received from around 60 per cent of the 43 delegations (counting the EU as one) who were asked to verify information received from other sources (WTO, 2012c, para. 19). Many delegations either verify the information, or provide more accurate information, but some responses are less helpful: “certain delegations request the Secretariat to delete all information because the measures are not based on legal instruments, or they simply refuse to verify any information whose source is the public media” (WTO, 2013b, p. 21). In such cases the Secretariat cannot use the data, but if they have evidence that a disputed measure is based on legislation, or if a delegation fails to respond to a request for verification, the measure will be still included in reports as “unverified.”

We think that all three sorts of TPR reports ought to have a specific section on fossil fuel subsidies. Given the poor record of notification on subsidies in general, and the ambiguities about whether subsidies that might not be specific even ought to be notified, the Secretariat needs help in generating the data from non-WTO sources.

Do Notifications Put Members at Risk of Disputes?

Why are Members reluctant to verify third-party data? One of the “urban myths” of the WTO is that what other Members do not know cannot be the subject of a dispute, and hence Members are reluctant to allow potentially embarrassing information to be made available. The evidence does not support this fear. Some research has been conducted on the relation between the TPRM and complaints in the dispute-settlement system. One study compared disputes filed by the NAFTA countries with the respective TPRs. The results showed that the number of measures identified in the TPRs for which a complaint was filed was low, which could indicate that the more measures are notified and subsequently discussed in the TPR, the less likely that they lead to formal disputes (Froese, 2012). Another study of a wider range of disputes found that about half of the measures in dispute-settlement complaints could be found in the TPR reports, but only 15 per cent of the mentions in a TPR report had any detailed policy analysis or criticism of the policy at issue (Ghosh, 2010, p. 441).

The likelihood of disputes is also diminished by the complexities of making a complaint in the dispute-settlement system, which impose high hurdles for all Members. Having found a possible problem, Bown (2011, p. 170) argues, a firm and its advisers must ask:

- (1) What is the likelihood of a WTO finding of a legal inconsistency of any particular measure?
- (2) How large is the lost foreign market access at stake?
- (3) Was this WTO violation a sufficiently important economic cause of lost foreign market access?
- (4) What is the legal-political likelihood as well as the form of compliance of the respondent with any WTO rulings?

As he shows, the analytic and financial resources needed to answer these questions are significant (Bown, 2009, pp. 104 ff). In the case of crisis monitoring, where the Secretariat reports go well beyond formal notifications, they “generated few additional details that could be used by an analyst to help determine whether such a measure was an economically important cause of a reduction to its country’s exports” (Bown, 2011, p. 166).

We believe that increased discussion of fossil fuel subsidies, or any kind of energy subsidies for that matter, is not likely to lead to an increase in conflict among Members. The greater risk is that Members will fail to pick up on the data made available in a TPR. The more the information on fossil fuel subsidies is linked to a potential (negative) trade effect, the more likely it is to be discussed among WTO Members. The more questions that are asked in Geneva, and the more governments at home are asked to justify their policies, the greater the prospects for subsidy reform. The next question is whether third parties, like NGOs, can help in making more information available.



4. THE ROLE OF NGOS AND THIRD-PARTY NOTIFICATION

Many international organizations make use of third-party data (Mitchell, 1998). Of particular relevance, many NGOs have a recognized role in contributing to the work of multilateral environmental agreements (MEAs) where they can enhance the knowledge base available to the MEA (Oberthür et al., 2002). Of course, many of the relevant NGOs are based in or funded from the G7 countries, which makes the emerging economies wary (Kahler, 2013, p. 719) but their role can be essential. One of the strengths of the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) is its ability to work closely with Trade Records Analysis of Flora and Fauna in Commerce (TRAFFIC), an NGO whose purpose is essentially to support CITES by providing information on illegal trade in endangered species. (Oberthür et al., 2002; Wolfe & Baddely, 2012, pp. 7-12). Other examples include Greenpeace International providing information on illegal trade to the Secretariat of the Basel Convention on Transboundary Movements of Hazardous Wastes and their Disposal (Okaru, 2011), or Greenpeace and the WWF providing information to the scientific body of the UNFCCC. The Alternative Fluorocarbon Environmental Acceptability Study provides information on the production of ozone-depleting substances used by Parties to the Montreal Protocol. Finally, the Ramsar Convention has concluded several memoranda of cooperation with NGOs and has given certain duties to the International Union for Conservation of Nature (IUCN) (Oberthür et al., 2002).

Independent researchers can generate useful reports on fossil fuel subsidies from publicly available data—see for example Oosterhuis (2013)—but the effort can be resource-intensive. Nevertheless, as long as data exist in the public domain, anybody who understands subsidies and taxes (and the local language, if important) can put together a set of estimates. One obvious source of data is the OECD, as suggested by Tim Josling and Klaus Mittenzwei (2013) in an approach to the problem of incomplete and late notification of agriculture subsidies. They argue that OECD Producer Support Estimates (PSE) data on farm subsidies are complementary to WTO notification data, despite the slightly differing conceptual bases. A virtue of exploiting that complementarity would be the ability to calculate provisional or “pre-notifications” (synthetic notifications for years for which official notifications are not yet available) from recent OECD data, since the OECD dataset is updated autonomously, and nearly continuously, meaning its data are much more timely than WTO agriculture notifications. The issue has apparently provoked lively debate in the TPRB, participants say, since developing countries led by Brazil and India argue that the WTO should not use OECD data. However, that should not stop NGOs.

Where information is incomplete or unclear, NGOs can resort to “provocative notification,” a process of notifying what information is available or has been dug up. Where this information is incorrect—and in particular where it suggests subsidies larger than they are in reality—this kind of notification provides an incentive for the country in question to provide the correct information, if only to counter the impact of the flawed NGO notification. The GSI’s reporting of EU biofuel subsidies provoked the Commission to respond by giving more accurate and up-to-date figures than those available to the GSI (Charles et al., 2013). The transparency objective had been achieved.

In the WTO, NGOs can contribute as knowledge brokers helping to facilitate the discussion between Members and contribute to better policies (Perez-Esteve, 2012). In the dispute settlement system this function is already formalised by allowing NGOs to submit *amicus curiae* briefs. NGOs also have a role to play, however, before issues reach the dispute-settlement phase. Guidelines adopted by the General Council in 1996 (WT/L/62) include the possibility of “informal arrangements to receive the information NGOs may wish to make available for consultation by the interested delegations.” While no formal process exists (yet) for NGOs to submit notifications, and the general economic support measures identified in the context of the trade monitoring exercise are not included in the public database, the Secretariat does use NGO data that are relevant. For example, in the crisis monitoring undertaken by the TPRB, the Secretariat makes use of data published by Global Trade Alert (Wolfe, 2012; Wolfe, 2013). WTO rules for engagement with NGOs are unlikely to become more formal (Pandey, 2013), but current rules do allow sufficient scope for NGOs to provide information on energy subsidies in a form that would be useful for the WTO.



5. PROPOSAL FOR A NEW TEMPLATE FOR NOTIFICATION OF FOSSIL FUEL SUBSIDIES

If information provided by an NGO is to be useful, it has to be in the language of the WTO; that is, the data must fit the ASCM definition of subsidy, and must be comparable across measures and countries. The best way to meet this objective is to think of the data as a notification, and to use a standard template. The information in a WTO notification is the answer to a question posed implicitly or explicitly by a WTO agreement. The generic definition of a notification in the WTO Glossary is “a transparency obligation requiring member governments to report trade measures to the relevant WTO body if the measures *might have an effect on other Members*.” In most cases, the notification is structured by a questionnaire or template developed by the relevant body, and increasingly the resulting data are being placed in the new Integrated Trade Intelligence Portal (I-TIP), a publicly available and searchable database.

The virtue of templates is that their use ensures that the same types of data are collected for every Member, and every subsidy, and that the results can be compiled in a database that allows simple comparison and aggregation. If NGOs are to contribute data on energy subsidies, they must provide it in such a standard format. Having a template helps provide a clear path for researchers. As more people use it and test it, there is a double dividend: feedback helps improve estimation and reporting methods, and the data become more comparable across different studies—which can only happen if the WTO or some other body ensures that all such third-party notifications are publicly available.

Our colleagues in the Global Subsidies Initiative (GSI) have long argued that the subsidies questionnaire used by the SCM Committee (discussed above) is inadequate, and have proposed a template for governments to use in preparing subsidies notifications to the WTO in a more structured and consistent manner (Steenblik & Simón, 2007). The GSI encouraged governments to use the template for their notifications to the WTO, and carried out a project to assess and organize German subsidies using the template (Thöne & Dobroschke, 2008). For reasons discussed elsewhere (Wolfe, 2013, pp. 18-19), WTO notification remains weak, and Members do not use the template. When voluntary reporting by governments does not work because they seemingly lack the incentive to notify, third parties have a role to play in identifying and collecting information about subsidies that would be accessible in the WTO format (Thöne & Dobroschke, 2008, pp. 23-24). We think that NGOs and individual researchers could use a modified version of the GSI template, particularly in countries with good budgetary transparency or countries in which information is available from other international organizations (whether NGOs have sufficient means to notify this information to the WTO is a question we have yet to explore.)

The GSI is concerned with fossil fuel subsidies and energy subsidies more broadly because of their effect on environmental quality, economic development, governance and hence on sustainable development in general. The GSI therefore applies an expansive meaning to fossil fuel subsidies, but one based on the definition of a subsidy formulated in the ASCM—see the checklist in Annex I below. The main difference with the ASCM is that GSI does not include a benefit analysis (ASCM Article 1.1(b)) when identifying energy subsidies, nor does it limit its research to specific subsidies (Article 2). Consequently, a broad range of economic support measures are included in GSI’s work, including both production and consumption subsidies.

The template that we propose in Annex III is thus based on the WTO definition, taking into account the subcategories that GSI developed to facilitate the understanding of the definition. While initially developed by GSI for use by governments, this template as modified can serve as the basis for notifications of fossil fuel subsidies by NGOs.

The proposed template contains two parts. The notification summary in the first part provides a quick overview of what different subsidization programs look like in a given country, organized in a table according to a chosen classification system. The Harmonized System (HS), which would organize subsidies by product, has the advantage of being familiar to most WTO Members. The International Standard Industrial Classification of All Economic Activities (ISIC) would allow organization of energy subsidies by economic activity (Steenblik & Simón, 2007). National account statistics of countries are already often structured according to economic activity (agriculture, fishing, mining, manufacturing, retail, etc.). Using ISIC also offers the advantage of having a discussion on subsidies where Members can immediately compare the amount of subsidies related to a particular economic activity, rather than to a product. Finally, when subsidies are organized according to the ISIC system Members could discuss what kind of activity related to fossil fuels they do not consider problematic and which one they do and should be subject to reductions. An illustrative list of relevant ISIC codes is shown in Annex II below.



The second part is a detailed description by subsidy program of the conditions and objective of the subsidy. The checklist of energy subsidies (Annex 1) allows researchers to identify consumption and production subsidies for fossil fuels as well as subsidies for renewable energy (Beaton et al., 2013). The type of subsidy will subsequently determine the method of measuring the amount. For example, direct government expenditure can easily be defined by looking at the government's budget, while tax exemptions have to be measured against a reference level. Most common in these cases will be the use of the price-gap approach, following the method of the IEA, or the consumer support estimate, developed by the OECD. The concept of "price support" in WTO jurisprudence includes direct government intervention in the market intended to fix the price of a good at a particular level, for example, through purchase of surplus production when price is set above equilibrium (see WTO 2012e para. 7.85).

In line with the GSI approach, our template does not ask if a subsidy is specific, a judgment that in the end can only be made by Members through questions in the SCM Committee or the dispute-settlement system on a case-by-case basis. Our objective, and a further reason for using the TPRM, is to shine a light on all subsidies that cause market distortions and therefore have an impact on the trading system. Any support measure from a central or sub-central government that is applicable to gas, oil, coal or peat will fall under that category and could be notified by an NGO. We have found in examining subsidies notifications that Members hardly ever provide data to calculate the trade effect of a subsidy, but some discussion on this point will be essential in each case in order to help Members see the WTO relevance of the measure. Both consumer and producer fossil fuel subsidies have an effect on the trading system. Producer subsidies provide a competitive advantage to the recipient. Consumer subsidies favour local industries that are energy intensive. If energy as an input becomes cheaper through fossil fuel subsidization, the producers of energy-intensive goods will gain an advantage.

Providing for the amount of a subsidy in the notifications would allow for better discussions. Small subsidies might not be a concern to other Members, while very large subsidization programs might provoke questions and debate. Direct government expenditure will be easier to measure than tax exemptions. NGOs can rely on different methods to calculate subsidies or rely on the data of the OECD, IMF and IEA to provide the information for this column.

Finally, verification by the Secretariat will be easier if the NGO notification contains the source of the information, including legislative authority for the measure, and any other documentary evidence. The notification should also contain the source for any quantitative data or the calculation of the amount of a subsidy.



6. CONCLUSION: SHINING A LIGHT ON FOSSIL FUEL SUBSIDIES

Trade and the environment are entwined, and one nexus is subsidies. The preamble of the *WTO Agreement* records Members' commitment to enhanced trade "allowing for the optimal use of the world's resources in accordance with the objective of sustainable development." Our aim in this paper was to consider the role of transparency in advancing toward this goal of a trading system that meets the needs of the present without compromising the ability of future generations to meet their own needs. This preambular goal remains hard to define in legal obligations, even if new negotiations were in prospect, but we think Members can nevertheless hold themselves accountable for progress in this direction. We think that civil society can help, as it did in the long process of developing the information and analysis to underpin the framing of fisheries subsidies as an appropriate subject for negotiations in the WTO.

Fossil fuel subsidies offer an example of a significant climate change problem where new trade rules are unlikely in the short term, and where an NGO contribution to increased transparency could make a difference. Fossil fuel subsidies divert precious resources from other pressing needs and add colossal sums to national debt. These perverse subsidies provide a strong incentive to prefer carbon-based fuels to the alternatives, and they affect resource allocation in ways that are unfavourable to other, cleaner forms of energy. Their use clearly affects patterns of international trade, even if specific harm to trading partners is not always easily identified. The ASCM ought to be a useful tool to discipline such subsidies, but this agreement is not effective: Members either fail to notify their subsidies, or notify only sporadically. As a result, harmful subsidies continue to undermine sustainable development and the WTO's overall goal remains distant, or even recedes.

We think that imaginative use of existing transparency mechanisms can help. We focus not on the so-called "enforcement" of precise legal obligations, because the real life of the trading system is elsewhere, and because it is hard to enforce a preamble. This paper therefore offers a proposal on how more information about fossil fuel subsidies can be brought into the WTO as the basis for analysis and further discussion. With more information, Members can learn from each other while publication in TPR reports may help citizens learn that certain kinds of policies in favour of both consumers and producers are in fact perverse subsidies.

Our analysis of the negotiation history of ASCM Article 8, and the broader difficulties in the Doha Round, lead us to conclude that no new provisions for energy subsidies will be added to the WTO any time soon. We must work with what exists, but what exists can make a significant contribution to analysis of fossil fuel subsidies within the context of both an individual country's trade and economic policy and the effects of subsidies on the trading system. We have found no example of the SCM Committee using third-party notification, so the target for our proposal is the TPRB, but we remain consistent with the definition of subsidies in the ASCM, "as if" Article 8 was still in force; that is, a Member who wished could use an NGO TPR notification as the basis for a legitimate question in the SCM Committee about a subsidy that might not be actionable, but would certainly be of interest. We think that the Secretariat should make energy subsidies a separate subsection of every TPR and every monitoring report. Having more comprehensive data can only help discussions about the trade implications of energy subsidies and climate change. Such enhanced surveillance, far from providing raw material for more disputes, will help to clarify the principles and rules applicable to energy, therefore avoiding disputes. And that clarification is essential if WTO is to be in a position to support rather than obstruct global action to reduce greenhouse gas emissions, one of the defining issues of our time.



ANNEX 1 GSI CHECKLIST FOR IDENTIFYING ENERGY SUBSIDIES

Direct and indirect transfer of funds and liabilities ASCM Article 1.1 (a)(1)(i)	Direct spending	Earmarks
		Agency appropriations and contracts
		Research and development support
	Government ownership of energy-related enterprises	Security-related enterprises
		Municipal utilities and public power
	Credit support	Government loans and loan guarantees
		Subsidized credit to domestic infrastructure and power plants
		Subsidized credit to oil and gas related exports
	Insurance and indemnification	Government insurance/indemnification
		Statutory caps on commercial liability
Occupational health and accidents	Assumption of occupational health and accident liabilities	
Environmental costs	Responsibility for closure and post-closure risks	
	Waste management	
	Environmental damages	
Government revenue foregone ASCM Article 1.1 (a)(1)(ii)	Tax breaks and special taxes	Tax expenditures
		Overall tax burden by industry
		Excise taxes/special taxes
Provision of goods or services below market value ASCM Article 1.1 (a)(1)(iii)	Government-owned energy minerals	Process for mineral leasing
		Royalty relief or reductions in other taxes due on extraction
		Process of paying royalties due
	Government-owned natural resources or land	Access to government-owned natural resources land
	Government-owned infrastructure	Use of government-provided infrastructure
Government procurement	Government purchase of goods or services at above-market rates	
Government-provided goods or services	Government-provided goods or services at below-market rates	
Income or price support ASCM Article 1.1 (a)(2)	Market price support and regulation	Consumption mandates and feed-in tariffs (FITs)
		Border protection or restrictions
		Regulatory loopholes
		Regulated prices set at below-market rates
		Regulated prices set at above-market rates



ANNEX 2 ISIC CLASSIFICATION OF ECONOMIC ACTIVITIES (EXCERPT)

Codes potentially relevant for fossil fuel and renewable energy subsidies

CODE	DESCRIPTION
A	Agriculture, forestry and fishing
11	Growing of non-perennial crops
12	Growing of perennial crops
14	Animal production
16	Support activities to agriculture and post-harvest crop activities
22	Logging
31	Fishing
32	Aquaculture
B	Mining and quarrying
5	Mining of coal and lignite
6	Extraction of crude petroleum and natural gas
7	Mining of metal ores
91	Support activities for petroleum and natural gas extraction
C	Manufacturing
17	Manufacture of paper and paper products
19	Manufacture of coke and refined petroleum products
20	Manufacture of chemicals and chemical products
22	Manufacture of rubber and plastics products
23	Manufacture of other non-metallic mineral products
24	Manufacture of basic metals
25	Manufacture of fabricated metal products, except machinery and equipment
D	Electricity, gas, steam and air conditioning supply
35	Electricity, gas, steam and air conditioning supply
H	Transportation and storage
49	Land transport and transport via pipelines
50	Water transport
51	Air transport



ANNEX 3 TEMPLATE FOR THE NOTIFICATION OF FOSSIL FUEL SUBSIDIES TO THE WTO

I. Notification Summary

ISIC CODE	GOVERNMENT LEVEL	REGIONAL DESIGNATION	SUBSIDY TYPE	PROGRAM NAME	TARGET BENEFICIARIES	DURATION	AMOUNT

II. Notification Annex

1. Authority providing the subsidy (state agency involved, and legislative basis where available)
2. Purpose of the subsidy
3. Title of the program
4. To whom and how the assistance is provided
5. Amount—with source for any calculation (e.g., OECD, IEA, IMF, GSI)
6. Duration
7. Potential effect on trade—can be qualitative or quantitative
8. Source of the information



ANNEX 4 COMPARISON OF REPORTING SUPPORT MEASURES FOR FOSSIL FUELS, 2008-2013

COUNTRY	WTO SCM NOTIFICATION	OECD INVENTORY	G-20 VOLUNTARY
Albania	1	0	0
Argentina	0	0	2
Australia	Fed: 2; State: 1	Fed: 18; State: 28	0
Austria (EU)	0	7	0
Belgium (EU)	0	12	0
Brazil	1	0	3
Canada	0	Fed: 9; Prov: 67	3
Chile	0	4	0
Czech Republic (EU)	0	9	0
Denmark (EU)	0	7	0
Estonia (EU)	0	17	0
European Union	1	0	0
Finland (EU)	1	18	0
France (EU)	0	34	?
Germany (EU)	0	28	1
Greece (EU)	0	8	0
Hungary (EU)	0	7	0
Iceland	0	1	0
India	Sub-federal: 14	0	4
Indonesia	0	0	3
Ireland (EU)	0	3	0
Israel	0	4	0
Italy (EU)	0	10	1
Japan	13	18	0
Korea	1	13	2
Luxembourg (EU)	0	4	0
Mexico	2	6	2
Netherlands (EU)	0	6	0
New Zealand	0	8	0
Norway	1	16	0
Peru	1	0	0
Poland	1	16	0
Portugal (EU)	0	9	0
Romania (EU)	1	0	0
Russian Federation	1	0	0
Slovak Republic (EU)	1	10	0
Slovenia (EU)	0	10	0
Spain (EU)	1	9	1
Sweden (EU)	0	29	0
Switzerland	0	4	0
Taiwan	2	0	0
Turkey	0	10	1
Ukraine	1	0	0
United Kingdom (EU)	1	14	0
United States	Fed: 8; State: 8	Fed: 20 State: 147	12
Totals:	64	640	35



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Head Office

161 Portage Avenue East, 6th Floor, Winnipeg, Manitoba, Canada R3B 0Y4
Tel: +1 (204) 958-7700 | Fax: +1 (204) 958-7710 | Web site: www.iisd.org