Why the Zero Draft of the UN Plastics Treaty Should Deal with Tobacco's Toxic Plastics



Key messages

- 1. Tobacco is a sector governed by a treaty adopted by over 180 Parties, the World Health Organization Framework Convention on Tobacco Control (WHO FCTC).
- 2. The tobacco industry's toxic plastics, primarily in the form of cigarette filters and related electronic devices, pose significant environmental and public health risks. These have been classified as problematic and avoidable single use plastics in a WHO FCTC Conference of Parties (COP) <u>Decision</u>.
- 3. With the gravity of the environmental impact of cigarette butts and related electronic devices and the unique regulatory measures that apply to tobacco, WHO and others have called for an <u>immediate ban</u> on these products.
- 4. While the current Revised Draft Text of the international legally binding instrument on plastic pollution, including in the marine environment (UN Plastics Treaty), remains silent on addressing tobacco-related plastics, in February 2024, the 10th session of the WHO FCTC Conference of Parties adopted a landmark decision emphasizing the need to align efforts to combat plastic pollution with tobacco control objectives.
- 5. The Decision identified key areas for policy coherence, such as tobacco industry liability, Extended Producer Responsibility (EPR), classification of tobacco plastics as hazardous waste, regulatory options (such as a ban on cigarette filters and vaporizers), and the protection of tobacco-related environmental policies against the commercial and vested interests of the tobacco industry.
- 6. The INC4 must be guided by the WHO FCTC and the COP 10 decision to ensure that the future international treaty against plastic pollution would support tobacco control efforts instead of undermining them. (See Side by Side for details on the provisions proposed)

Incorporating the suggested recommendation to address the issues of tobacco's toxic plastics presents a significant opportunity to enhance the effectiveness of the UN Plastics Treaty. Further, these recommendations can help mitigate the substantial risk of undermining tobacco control efforts by the UN Plastics Treaty

About this Brief

This brief is an updated version of the STPA's INC3 Brief: Why the Zero Draft of the UN Plastics Treaty Should Deal with Tobacco's Toxic Plastics, which adds:

- Updates based on the variation in text between the Revised Draft Text and the Zero Draft Text.
- Updates based on the Decision of the 10th session of the WHO FCTC Conference of Parties on the implementation of Article 18.
- Updates based on the Decision of the 10th session of the WHO FCTC Conference of Parties on the implementation of Article 19.
- Additional information relating to tobacco related electronic devices.
- Adds a section (Background) to respond to the fact that the Revised Draft Text of the
 international legally binding instrument on plastic pollution, including in the marine
 environment,[1] that was published ahead of INC-4[2] failed to address the issues raised by
 STPA regarding tobacco; despite the arguments provided during the previous negotiations
 and submissions/statements online.

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I. INC4 Abridged Brief

1. Background

Tobacco's toxic plastics & the WHO FCTC

The tobacco industry's toxic plastics (cigarette filters, vaporizers, and other tobacco products) are no ordinary plastics because the tobacco industry and its main product, the cigarette, kill up to half its consumers without providing a single health benefit.[3] Both the product and the producer are covered by strict, all-encompassing, evidence-based regulations across the world through the WHO FCTC.

Tobacco: Omission in the Revised Draft Text

The future instrument against plastic pollution will inevitably have to address tobacco's toxic plastics because it is one of the most common and abundant forms of plastics found on coasts/ affecting marine life.[4] A global movement, Stop Tobacco Pollution Alliance (STPA), pointed out that the failure to recognize the uniqueness of the tobacco sector and align it with the WHO FCTC could potentially undermine treaty objectives of saving lives from tobacco, thereby increasing public health risks.[5] Particularly, current and standard provisions on EPR, circularity/ recycling redesigning, safe alternatives, incentives, and stakeholder/ private sector engagement, which may form part of the solutions in the context of plastic industries, would go against the objectives of public health if applied to the tobacco industry as these would contravene specific provisions of the WHO FCTC.

However, despite several interventions from member states throughout the past INC negotiations and the written position submitted by the WHO, the current Revised Draft of the UN Plastics Treaty published on Dec 28, 2023, ahead of INC-4 (April 2024) remains silent on tobacco. There is no mention of WHO FCTC and tobacco products/ sector.

WHO FCTC COP10 Decision relating to tobacco plastics

In February 2024, the WHO FCTC COP 10 adopted a decision on implementing WHO FCTC Article 18 (Protection of the Environment). The COP 10 Decision on Article 18 recognizes that "plastic cigarette filters are unnecessary, avoidable and problematic, single-use plastics that are widely spread in the environment, killing microorganisms and marine life, as well as polluting oceans." It takes into account "the work of the Intergovernmental Negotiating Committee on Plastic Pollution (INC), the issue of microplastic pollution caused by plastic cigarette filters, ongoing global efforts in the development of standards for hazardous waste management under environmental laws," recalls the fact that "the WHO FCTC has been officially referenced during the United Nations plastics treaty negotiations;" and notes that "WHO has recommended an immediate ban on cigarette filters and vaporizers..."

The COP 10 Decision on Article 18, which is aimed at "aligning the WHO FCTC work with the principles, objectives and commitments of other international agreements, ... including but not limited to the Intergovernmental Negotiating Committee on Plastic Pollution;" serves to provide ample guidance to the INC4:

- 1. encourages "Parties to consider comprehensive regulatory options concerning filters and... related electronic devices...."
- 2.urges "Parties...to protect tobacco-related environmental policies from the commercial and vested interests of the tobacco industry and those working to further its interests."
- 3. invites "Parties...to **hold the tobacco industry accountable** for the damage it causes to the environment ... and the disposal and treatment of waste resulting from their manufacture and consumption."
- 4.urges "Parties to counter the so-called corporate social responsibility activities of the tobacco industry, and to ensure that **WHO FCTC objectives are not undermined through** the industry's implementation of extended producer responsibility systems." (EPR)
- 5. to urge Parties to **coordinate their efforts to address plastic waste** of tobacco products and related electronic devices with the objectives of the WHO FCTC in relation to national policies and international treaties and fora **dealing with plastics and hazardous waste**, as appropriate.
- 6. requests the Secretariat "to **examine regulatory options** regarding the prevention and management of waste generated by the tobacco industry and its products, including a **ban on plastic cigarette filters** and the management of hazardous waste from cigarettes." (emphasis supplied).

Another <u>Decision on the Implementation of Article 19</u> (Liability) was also adopted during COP10; it-

- urges Parties to call upon international and regional organizations in which Parties are
 represented to ensure that the work undertaken in these international fora, including
 relation to the environment and regulation of business conduct, supports tobacco control
 and does not undermine it;
- 2. requests the Secretariat to participate in global fora to promote policy coherence between tobacco industry liability and the development of international law in relation to the environment, human rights, and regulation of business conduct (emphasis supplied).

These decisions, adopted by consensus by over 180 Parties to the WHO FCTC, create an impetus for the Member States to ensure that the future international instrument against plastic pollution would support tobacco control, not undermine it. As indicated in the Decisions, the key areas for policy coherence include tobacco industry liability, EPR, classification of tobacco plastics as hazardous waste, regulatory options such as a ban on cigarette filters and vaporizers, and protecting tobacco-related environment policies against the commercial and vested interests of the tobacco industry.

Box 1: Omission of tobacco/WHO FCTC in the Revised Draft Text

At the second session of the Intergovernmental Negotiating Committee (INC-2) to develop an international legally binding instrument on plastic pollution, held in Paris in June 2023, delegates tackled several key elements of the future instrument. The WHO FCTC was mentioned for the first time since the negotiations started,[6] but it was referred to only as one of the many multilateral agreements that the UN Plastics Treaty needs to be integrated with, primarily to avoid duplication.[7] For the inter-sessional work leading to the third session of the Intergovernmental Negotiating Committee (INC-3), the Zero Draft Text for the treaty was released, and the WHO submitted a position paper supporting an immediate ban on cigarette filters and related electronic devices, citing the <u>study</u> of the Belgian Supreme Health Council. At least 3 Parties (Singapore, Palau, Panama) and three other organizations that are part of the STPA have proposed that cigarette filters be recognized as a plastic problem. Particularly, STPA members proposed that the Draft Text should recognize the tobacco sector as unique and align the text with the WHO FCTC, including through a ban on tobacco filters.

To incorporate all input received, including at INC3, the Revised Draft Text was published on Dec 28, 2023, in preparation for INC-4, taking place from 23-29 April 2024 in Ottawa, Canada. The text was expanded to include more options for each of the provisions. Although the placeholders on Objectives, Scope, Principles, and other cross-cutting sections have been filled out, there is no mention of the synergy with WHO FCTC or the recognition of the tobacco sector.

2. Discussion

Why the Zero Draft of the UN Plastics Treaty Should Deal with Tobacco's Toxic Plastics

The cigarette kills up to half its consumers, and the cigarette filter found on almost all commercial cigarettes does not provide a single health benefit. Governments around the world address tobacco products and tobacco producers with evidence-based regulations aiming to reduce tobacco use.

The cigarette filter poses a significant threat to both human and environmental health. The dominant type of filter is made of 12,000–15,000 cellulose acetate strands. These can produce minute plastic fibers that are then inhaled and have been found in deceased smokers' lungs. While smokers believe that these plastic attachments can filter out tobacco toxins and nicotine, cigarette smoking continues to cause cancer, cardiovascular disease, and pulmonary disease despite 60 years of filtered cigarette smoking.

In fact, filtered cigarette smoking has been linked to a more aggressive form of lung cancer. The tobacco industry knows that the design of the cigarette filter is deceptive and defective, and yet continues to market this feature to attract young smokers as well as sustain smoking among already addicted smokers.

WHO FCTC provides obligations and guidance for governments to counter tobacco industry tactics with evidence-based tobacco control measures. These include, among others, advertising and sponsorship bans (including so-called corporate social responsibility efforts by tobacco companies), product regulation, taxation policies, assigning liability for harms, and preventing conflicts of interest in policy development and implementation.

Because more than 180 Parties to the WHO FCTC recognize that the tobacco product is unique in nature, i.e., it kills up to half of its users while providing no health benefit, they are subject to a set of distinct rules, and thus, tobacco would deserve a specific consideration in the Revised Draft of the UN Plastics Treaty. The draft should consider these issues:

a. Avoidable and problematic plastics

Cigarette butts comprise between 5-9% of aquatic trash. Cigarette butts continue to be the most littered item collected in urban and beach cleanups for decades, despite industry-led cleanup campaigns. Discarded cigarette butts release thousands of microplastic fibers into aquatic environments. Most smokers do not realize that filters are made of non-biodegradable plastic and that these do not protect them from the devastating effects of tobacco use. Notably, unfiltered cigarettes continue to be marketed and used, but smokers find filtered cigarettes more appealing.

b. Classification as hazardous plastic waste

Cigarette butts contain hazardous chemicals which, according to European Union (EU) Single-Use Plastics (SUPs) Directive, should lead to their classification as hazardous waste. Cigarette butts leach out chemicals such as nicotine, tobacco-specific carcinogens, and metals that pollute aquatic environments. Cigarette butt leachates have been shown in laboratory studies to be toxic to microorganisms, plants, invertebrates, and vertebrates. The leachates could kill marine life and affect reproduction in a short time. The rate of toxic contamination is high in both landfills and the aquatic environment.

c. No circularity

Due to the toxic nature of cigarette butts and the trillions discarded into the environment each year, collecting cigarette butt waste to recycle is not likely to reduce the overall burden of this waste. Removal of toxins from smoked filters is a resource/ energy-intensive process that has not been studied as to safety and efficacy. Recycling efforts are not likely scalable due to the intensity of efforts needed to collect, separate, transport, and detoxify them for use in other consumer products.

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Further, changes in the cigarette filter design (e.g., leading to easier recyclability) would contravene product regulations that prevent the tobacco industry from introducing attractive design features. The tobacco industry has fraudulently marketed filters for decades and has continuously undermined bans on marketing and sponsorship, including tobacco's corporate social responsibility (CSR) activities, contravening Article 5.3 and Article 13 of the WHO FCTC. A redesigned filter marketed as eco-friendly and will likely allow smokers to discard 'biodegradable' cigarettes with less guilt.

d. No alternatives or substitutes

Substitutes for plastic cigarette filters, such as 'biodegradable' filters, will still leach out hazardous chemicals. The tobacco industry has started shifting to market 'biodegradable' filters to project a positive image and, potentially, to escape responsibility for the growing problem of tobacco product waste. However, any change in the cigarette filter design could be used to market the product as safe and to encourage uptake, including among the youth. Biodegradable filters would again confront regulatory agencies with a redesign that would not have any public health benefit; it would be used to sustain tobacco sales and contravene marketing bans (WHO FCTC Article 13).

e. Tobacco polluter, not 'stakeholder'

The tobacco industry does not positively benefit society or the global economy. It violates human rights and undermines the achievement of over a dozen of the 17 Sustainable Development Goals. Based on obligations under Article 5.3 of the WHO FCTC, Parties should not partner with the tobacco industry in considering public health or environmental policies. More than 70 countries have already banned all forms of tobacco advertising, promotion, and sponsorships (TAPS), including so-called CSR. Recognizing the tobacco industry as stakeholders or responsible producers under Extended Producer Responsibility (EPR) schemes undermines tobacco CSR restrictions and WHO FCTC Article 5.3 policies.

Box 2: Recommendations for the implementation of Article 5.3

Guidelines for the Implementation of Article 5.3 recommends Parties:-

- 1. Raise awareness about the harmful nature of tobacco products and the tobacco industry interference with Parties' tobacco control policies.
- 2. Establish measures to **limit interactions** with the tobacco industry and **ensure the transparency of these interactions**.
- 3. **Reject partnerships** and non-binding or non-enforceable agreements with the tobacco industry.
- 4. Avoid conflicts of interest for government officials and employees.

- 5. **Require** that **information** provided by the tobacco industry be transparent and accurate.
- 6. **Denormalize** and, to the extent possible, regulate **activities described as "socially responsible"** by the tobacco industry, including but not limited to activities described as "corporate social responsibility."
- 7. Do not give preferential treatment to the tobacco industry.
- 8. Treat the state-owned tobacco industry in the same way as any other tobacco industry.

3. Summary of Recommendations

The Revised Draft Text should consider adding provisions that would allow for the following:

- a. Immediate banning of cigarette filters and related electronic devices.
- b. Classification of tobacco plastics as hazardous waste.
- c. Recognition of the fundamental conflict of interest between the tobacco industry and public health and protection of tobacco-related environment policies against the commercial and vested interests of the tobacco industry.
- d. Dealing with tobacco industry liability and holding it accountable for environmental harms.

Please refer to the proposed text/draft provisions in the 'Talking Points' (document) to accomplish this task.

In sum, the provisions of the future instrument against plastic pollution provisions should support tobacco control, not undermine it, especially in relation to EPR, circularity/recycling redesigning, safe alternatives, incentives, and stakeholder/ private sector engagement.

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II. Detailed Brief

Why the Zero Draft of the UN Plastics Treaty Should Deal with Tobacco's Toxic Plastics

1. Cigarette filters are avoidable and problematic plastics that should be banned.

The 10th session of the WHO FCTC Conference of Parties Decision [8] on Article 18 (Protection of the Environment) recognizes that "plastic cigarette filters are unnecessary, avoidable and problematic, single-use plastics that are widely spread in the environment, killing microorganisms and marine life, as well as polluting oceans." It highlights the imperative for Parties to the WHO FCTC to actively engage in relevant national environmental policy development and international fora to align these efforts with the objectives of the WHO FCTC. Among others, this Decision encourages "Parties to consider comprehensive regulatory options regarding filters in cigarettes and in other tobacco and related products, and their related electronic devices, taking into consideration their public health impacts." This includes considering measures such as banning cigarette filters and implementing levies or surcharges to hold the tobacco industry financially accountable rather than endorse tobacco EPR initiatives that may inadvertently promote tobacco industry CSR activities in contradiction to the goals of the WHO FCTC.

a. Deadly plastic accessory

The cigarette filter is an accessory designed to make smoking more appealing by creating the illusion that toxins are being filtered out. This gives an impression of increased safety, making the product more attractive to potential and current users.[9] Unknown to most people,[10] cigarette filters have no proven ability to make cigarettes safer[11] and have been linked to a more aggressive form of lung cancer.[12] In a small trial, smokers found unfiltered cigarettes less desirable and smoked less, and a larger trial is underway to prove the potential public health impact of a ban on filters altogether.[13]

Notably, a cigarette can function without a filter, which is also true for cigars and roll-your-own tobacco products currently in the market. In some jurisdictions, "unfiltered" cigarettes continue to be marketed.[14] Research shows that as smokers transitioned from unfiltered to filtered cigarettes, the risk for adenocarcinoma increased around 4 to 10-fold due to cigarette design (especially filter) and the corresponding smoking behavior.[15,16]

Cellulose acetate, one of the main components of cigarette butts, is considered a macro plastic that quickly breaks down into smaller fibers during use and disposal.[17] A single cigarette filter has 12,000–15,000 cellulose acetate strands and releases approximately 100 cellulose acetate fibers a day when discarded as a cigarette butt. In addition, fibers may be inhaled by smokers during use.[18] Notably, plastic fibers have been observed in deceased smokers' lungs.[19]

b. Deceptive and defective

The tobacco industry initially invested in efforts to use the filter to make cigarettes appear safer (i.e., reduce health harm) but abandoned this idea because filtering out important components, such as nicotine and flavors, would defeat its objective of making cigarettes more attractive and/or addictive.[20] The tobacco industry has continued to innovate filter designs to market the product to young people by adding flavors, capsules,[21] colors,[22] and chemicals that would allow the filter to stain when used to give the impression that toxins are filtered out.[23]

c. Ubiquitous

Based on reports analyzing litter composition in rivers and seas, cigarette butts comprise 5–9% [24],[25] of aquatic trash. Butts have also been identified as one of the most common plastic items (29%) that are floating in harbors[26] and that sink in the seabed (5.14%).[27] Notably, cigarette butts have consistently remained on top of the list of plastic items in total debris collected (33%) in beach cleanups[28],[29] as well as in municipal litter collection.[30] The tobacco industry has supported cleanups as part of its 'greenwashing' efforts (see Table 1).[31] A typical filter releases approximately 100 microfibers a day (less than 0.2 mm in size), and an estimated 0.3 million tons of cellulose acetate filters are disposed of annually across the globe.

Although there is a significant global health effort to reduce the health consequences of tobacco use,[32] cigarette production is on an upward trend,[33] and there is no evidence that the downstream efforts of cleanup, public information campaigns, or anti-littering laws have reduced the annual environmental burden of tobacco product waste.[34],[35]

Recommendations:

- Immediately ban cigarette filters (government agencies in Belgium and <u>Netherlands</u> have called for such a ban)
- Immediately ban tobacco related electronic devices (The UK,[36] France,[37] and Germany[38] are set to implement a total ban on a subset of e-cigarettes, disposable vapes while Ireland[39] has restricted their sale as an environmental measure).

Box 3: Imposing an immediate ban on cigarette filters

The COP 10 Decision recalls the WHO's submission to the INC-3, which urged an immediate ban on plastics in nicotine and tobacco products. Additionally, it requests the WHO FCTC Secretariat to explore regulatory options, including a ban on plastic cigarette filters.[40] This bolsters the previous calls made by civil society groups, [41],[42] and the World Wildlife Fund (WWF)[43] for an immediate ban,[44] rather than a phase-out, on plastic cigarette filters. WWF particularly emphasized the need to classify cigarette filters in the high-risk plastics category.[45]

Despite the special provisions for tobacco products in the EU Single-Use Plastics (SUP) Directive, advocates from France, [46] and Denmark, [47] as well as government support from the Superior Health Council of Belgium[48] and a minister from the Netherlands,[49] analyzed the shortcomings of current interventions and still call for an EU-wide ban on filters.[50] Furthermore, in their submissions to the INC-3, Singapore[51] and Palau[52] have voiced support for classifying cigarettes as a problematic single use plastic under the UN Plastics Treaty.

A ban would end the decades-long fraud perpetuated by the tobacco industry to represent filters as a "harm reduction" tool;[53] this exposure and accountability could reduce the tobacco industry's ability to innovate products at the expense of human[54] and environmental health.[55] This measure would immediately remove a major source of toxic plastics from our environment.[56] Notably, it could also have a significant impact on discouraging consumption[57] since smokers smoked more filtered cigarettes than unfiltered cigarettes (due to the reduced harshness)[58] and to compensate for the nicotine requirement. Furthermore, as early as 1989, it was suggested that compensatory behavior (increasing the number of cigarettes smoked per day) to satisfy nicotine requirements after switching to filtered cigarettes is an important risk factor for lung cancer.[59] Because the tobacco industry has changed the cigarette composition as part of the shift toward filtered cigarettes,[60] it must also be held strictly liable for updating the constituents, ensuring that the cigarette will be reconstituted to offset the toxic constituents added[61] during the shift from unfiltered to filtered cigarettes.

Science has established the myriad harms caused by cigarettes. Cigarette filters are an accessory to a product that adds no value to the economy or society.[62] They represent a severe design flaw distorted to give a false sense of safety to consumers, a fraud perpetuated by the tobacco industry.[63] Delaying action, such as waiting to agree on an annexed list of plastic products to be banned (as proposed by some delegates at the INC-2[64] and INC-3[65]) or even "phasing out" filters,[66] would unnecessarily prolong the cigarette filters' adverse impacts on the health and environmental rights of people.

2. Cigarette filters should be classified as hazardous plastic waste that requires special handling, taking into account the chemicals of concern that attach to the filters.

Cigarette butts must be classified as hazardous waste due to their ecotoxicity and ease of broad contamination in waters, along with the accompanying challenges in litter abatement. The need to destroy seized cigarettes due to increased anti-smuggling efforts adds more hazardous waste to the environment. The COP10 Decision on Article 18 expressly considers "the work of the Intergovernmental Negotiating Committee on Plastic Pollution, the issue of microplastic pollution caused by plastic cigarette filters, ongoing global efforts in the development of standards for hazardous waste management under environmental laws." [67] It recognizes that "plastic cigarette filters are unnecessary, avoidable and problematic, single-use plastics that are widely spread in the environment, killing microorganisms and marine life." [68] It then urges Parties to coordinate their efforts to "address plastic waste of tobacco products and related electronic devices with the objectives of the WHO FCTC in relation to national policies and international treaties and fora dealing with plastics and hazardous waste." [69]

Cigarette butt leachates include nicotine, aromatic amines, and nitrosamines [70],[71],[72]; polycyclic aromatic hydrocarbons (PAH) [73],[74]; metals [75],[76]; BTEX compounds, including benzene, toluene, ethylbenzene, o-xylene, and p-xylene;[77] and phenols.[78] Cigarette butts leach low-molecular-weight PAHs while retaining larger PAHs.[79] They also rapidly leach a range of toxic metals.[80]

Source: Beutel, M. W., Harmon T.C., Novotny, T. E., A Review of Environmental Pollution from the Use and Disposal of Cigarettes and Electronic Cigarettes: Contaminants, Sources, and Impacts, Sustainability 2021, 13, 12994 See more in ANNEX 1.

a. Ecotoxicity

Cigarette butts contain hazardous chemicals, which, according to EU legislation, should lead to their classification as hazardous waste.[81] Cigarette butt leachates are extremely toxic[82], [83] to plants, cells, nervous systems, larvae, and genes, and have carcinogenic constituents (i.e., phytotoxic[84], cytogenic[85], neurotoxic[86], genotoxic[87], mutagenic,[88] teratogenic[89] carcinogenic[90]). This is true for a wide range of organisms, including the most resilient and tolerant forms[91] (e.g., Silverfish, clawed frogs, Catfish, snails, amoeba,[92] and shrimp[93]), increasing mortality with extended exposure, as smoked filters containing tobacco remnants are more toxic than those without.[94],[95] Even a small amount of cigarette butt leachate was sufficient to affect reproduction in the case of copepods, a key food source of fish.[96] Both the loose microfibers and chemicals in cigarette filters were found to be teratogenic[97], such that cigarette butts are recommended to be used as toxic pesticides to kill mosquito larvae.[98]

Laboratory-based studies show that cigarette butts can kill marine life in a short period of time. [99] The experiments usually lasted no more than 2-10 days before the lifeforms died. In one study, as little as five cigarette butts in a liter of water killed snails in two hours.[100]

b. Contamination

Because of cigarette butt size and the littering behavior that comes with the product design, cigarette butts are one of the most littered items that find their way into the environment.[101] The toxicity of cigarette butts suggests that the risk of contamination through leachates is high. [102] For instance, a study showed that a 1% mass of cigarette butts added to landfill waste increases its heavy metal contamination by 5%.[103] This is aggravated by the fact that cigarette butts easily absorb nano plastics.[104] The rate of contamination is also rapid; one cigarette butt can contaminate a liter of water with nicotine to levels that would be toxic to microorganisms.[105]

There is also evidence for bioaccumulation in fish[106] and shellfish[107] that may allow entry of chemicals and metals into the human food chain,[108] Accidental ingestion of cigarette butts by humans and animals has resulted in toxicity. [109]

An estimate of USD 20 billion conservatively accounts for the loss of ecosystem services annually[110] due to the plastic nature of cigarette butts and does not include costs of accelerated/aggravated harm to the ecosystem due to the toxicity of cigarette butts.[111]

c. Litter problem

Experts looking into tobacco industry documents revealed that decades of anti-littering programs have not worked because smokers are wired to litter and are not amenable to anti-littering efforts.[112] Due to the high rate of littering, cigarette butts are not easily collected, requiring additional litter management costs,[113] such as in New York and San Francisco.[114], [115] In the absence of litter management capacity, cigarette butts remain in the environment, in the storm drains, streets, and around litter sites,[116] continuing to release toxins and microplastics to the environment, contaminating air, water, and soil.[117] This is further aggravated by the need to manage rising e-cigarette litter. [118]

An estimate of USD 1 billion accounts for the waste management of cigarette butts annually, excluding litter management which is far more substantial than waste management costs.[119]

Box 4: Tobacco related electronic devices

The WHO has been reporting on the harmful effects of e-cigarettes (electronic nicotine delivery systems and electronic non-nicotine delivery systems (ENDS and ENNDS)(i)) on human health [120]. It recently highlighted the environmental damage from the plastic litter created by these products.(ii). In a submission relating to the UN Plastics Treaty, the WHO supported the call for "the immediate ban of plastics in nicotine and tobacco products and where immediate ban is not feasible, a gradual phase out or stringent control of plastics present in tobacco products, electronic delivery systems... recognizing them as problematic and avoidable plastics under the treaty." [121] Similarly, the COP10 Decision notes "that WHO has recommended an immediate ban on cigarette filters and vaporizers in its submission to the Intergovernmental Negotiating Committee on Plastic Pollution"[iii]and urges "Parties to take into account the environmental impacts from cultivation, manufacture, consumption and waste disposal of tobacco products and related electronic devices, and to strengthen the implementation of Article 18 of the WHO FCTC, including through national policies related to tobacco and/or protection of the environment".[iv] It further urges "Parties to coordinate their efforts to address plastic waste of tobacco products and related electronic devices with the objectives of the WHO FCTC in relation to national policies and international treaties and fora dealing with plastics and hazardous waste, as appropriate;"[v]

Several European countries like Germany[123], Belgium[124], France[125], and the UK[126] are in the process of implementing a ban on a subset of e-cigarettes, i.e., disposable e-cigarettes (vapes),(vi) due to the potential environmental impact of the single use plastics(vii) in these products.[127] Australia also plans to ban importing, manufacturing, and supplying disposable vapes,[128] while New Zealand has banned most disposable vapes and targeted flavored varieties.[129]

The harmful effects of tobacco related electronic devices on the environment

E-cigarettes, including disposable vapes, utilize non-biodegradable plastic casings. Like many plastics, these pose a risk to marine organisms and animals and endanger aquatic ecosystems. [130] The contamination with hazardous chemicals in vaping liquids exacerbates the harm as the nicotine e-liquid within these vapes categorizes them as acute hazardous waste according to EPA standards. [133] The market for e-cigarettes is growing to cater to 82 million vapers worldwide, [viii] many of whom use single-use devices. In the UK alone, where there are 4.3 million [ix] users, a total of 5 million [134] vaping devices are discarded per week.

Meanwhile, in the US, a total of 4.5 units[136] of disposable vapes are discarded per second. Countries that regulate or authorize the marketing of disposable vapes face significant environmental challenges with their disposal. For instance, the UK spends £200 million[x] a year collecting and recycling disposable vapes that pose risks of lithium battery fires and waterway pollution.

Incineration of seized (smuggled) cigarettes

In recent years, there has been an increased focus on international cooperation to eliminate the illicit trade of cigarettes. [137] As law enforcement efforts ramp up to clamp down on the illicit trade of cigarettes, the volume of seized cigarettes to be destroyed is expected to increase. Destruction of seized goods, whether by incineration or landfill, in an environmentally sound manner is an ongoing struggle, more so for hazardous materials. [138]

(<u>iii)</u> WHO FCTC, 10th Conference of the Parties Decision FCTC/COP10(14), 'Implementation of Article 18 of the WHO FCTC' (Panama, 10 February 2024). Available at: https://storage.googleapis.com/who-fctc-cop10-source/Decisions/fctc-cop-10-14-en.pdf.

(iv) Ibid

- (v) "WHO FCTC, 10th Conference of the Parties Decision FCTC/COP10(14), 'Implementation of Article 18 of the WHO FCTC' (Panama, 10 February 2024). Available at: https://storage.googleapis.com/who-fctc-cop10-source/Decisions/fctc-cop-10-14-en.pdf.
- (vi) "Disposable E-cigarettes, A type of e-cigarette designed to be used one time, only." E-CIGARETTE, OR VAPING, PRODUCTS VISUAL DICTIONARY, Centers for Disease Control and Prevention. Available at: https://www.cdc.gov/tobacco/basic information/e-cigarettes/pdfs/ecigarette-or-vaping-products-visual-dictionary-508.pdf
- (vii) "disposable vapes were a single-use plastic electrical and have been an 'environmental disaster." Disposable vapes to be banned in UK after stark warnings of risks to young people, CNBC. Available at: https://www.cnbc.com/2024/01/29/disposable-vapes-to-be-banned-in-uk-after-warnings-of-risks-to-youth.html
- (viii)"there were 82 million vapers worldwide in 2021: 9.2 million in the Eastern Mediterranean region; 5.6 million in the African region; 20.1 million in the European region; 16.8 million in the Americas; 16.0 million in the Western Pacific region; and 14.3 million in South-East Asia." Estimation of the global number of vapers: 82 million worldwide in 2021, Emerald Insight, 2023. Available at: Estimation of the global number of vapers: 82 million worldwide in 2021 | Emerald Insight
- (ix) "Estimated 4.3 million people using e-cigarettes, up from about 800,000 a decade ago in 'vaping revolution'." Vaping reaches record levels in Great Britain, report reveals, The Guardian. Available at: <u>Vaping reaches record levels in Great Britain, report reveals | Vaping | The Guardian</u>
- (x) "The potential yearly cost of collecting and recycling these vapes according to Material Focus research now stands at £200 million which currently isn't being paid for by vape producers, importers and retailers."

 Number of disposable single-use vapes thrown away have in a year quadrupled to 5 million per week, Material Focus. Available at: <a href="https://www.materialfocus.org.uk/press-releases/disposable-single-use-vapes-thrown-away-have-quadrupled-to-5-million-per-week/#:":text=Number%20of%20disposable%20single-use%20vapes%20thrown%20away%20have,in%20schools%2F%20their%20place%20of%20work%20More%20items

⁽i) "WHO Study Group on Tobacco Regulation (TobReg) has published a number of reports which contain evidence-based recommendations on electronic nicotine delivery systems and electronic non-nicotine delivery systems (ENDS and ENNDS), colloquially referred to as e-cigarettes." Source: World Health Organisation, 'Technical note on the call to action on electronic cigarettes' (December 2023). Available at https://cdn.who.int/media/docs/default-source/tobacco-hq/regulating-tobacco-products/ends-call-to-action-background.pdf?sfvrsn=7dd2856e 11&download=true

⁽ii) "WHO and the Secretariat of the WHO FCTC aim to highlight the pervasive use of plastics in nicotine and tobacco products... Plastic and electronic waste (e-waste) from heated tobacco products and devices, electronic nicotine (and non-nicotine) delivery systems (including single use e-cigarettes". Source: World Health Organisation, 'Pre-session Submisisons: Input on the potential areas of intersessional work to inform the work of INC-3 (following the lists compiled the co-facilitators of the (August 2023). Available two contact groups)' by https://resolutions.unep.org/resolutions/uploads/who_partb_28082023_1.pdf

Recommendations:

Any plastics policy must have provisions that deal with toxic plastic waste because these should deserve special handling and treatment.[139] This would entail the following actions for cigarette butts:

- Classify existing cigarette butts as a specific type of hazardous municipal waste requiring special waste management treatment.[140]
 - Isolate legacy cigarette butts and immediately treat/ process them to prevent further contamination.[141]
 - Immediately banning cigarette filters and related electronic devices would help reduce these types of plastics from entering the environment.
- Develop policies enabling early and easy recovery of the costs of harm from the tobacco industry.[142]
 - Increase tobacco taxes and other fees to pay for the special collection and treatment of current and legacy hazardous waste.[143]
 - Implement an 'Environmental tax' on the sale of tobacco products to deter consumption (e.g., a few countries such as the Gambia,[144] Chad, and Benin[145] have some form of environmental tax based on the polluter pays principle).

3. Cigarette filters cannot be part of a circular economy

Circular economy, as defined in the INC-2 additional documents, includes using secondary plastics, environmentally sound plastic scrap recycling, and driving demand for products containing higher recycled content.[146] UNEA resolution 5/14 which has been proposed as encompassing the scope of this instrument and defines a circular economy approach as a means to "promote sustainable production and consumption of plastics through, among other things, product design and environmentally sound waste management, including through resource efficiency." [147] The latest revised draft text further clarifies that a circular economy approach would "enhance the [design] [circularity] of plastic products, including packaging, and improve the composition [of plastics and] plastic products."[148] Circular economy approaches encourage the recycling and redesigning of tobacco products and provide a social responsibility function to the tobacco industry, which could undermine the WHO FCTC obligation for Parties to regulate tobacco products (including removing attractive features), to ban all forms of tobacco advertising including so-called CSR of the tobacco industry. Article 5.3 prohibits any incentives to be given to the tobacco industry, and this applies to environmental incentives because the COP10 Decision on Article 18 urges Parties to protect tobacco-related environmental policies from interference by the Tobacco Industry[149] and urges Parties to "ensure that WHO FCTC objectives are not undermined through the industry's implementation of extended producer responsibility systems."[150]

a. Recycling challenges

For cigarette butts, there have been various recycling efforts to produce outputs for construction, cosmetics, energy, agriculture, medical, paper, and other industries. Still, there are significant challenges in finding sustainable approaches due to the toxic nature of the material and the limitation of the goods produced. [151] Additionally, the way cigarette butts are littered has turned them into one of the most difficult items to collect for large-scale economically-viable recycling. [152]

b. Removal of toxins not guaranteed

Removing toxins from hazardous material is a very tedious, resource-intensive process.[153] Because of the numerous chemicals and heavy metals found in cigarette butts, it is a challenge to ensure that each of the toxic constituents is safely removed during the waste treatment. Pyrolysis is capital and energy-intensive.[154],[155] UV rays would not remove chemicals and metals.[156] Notably, many in the business of recycling cigarette butts do not disclose the treatment process.[157]

c. Recycling successes are not likely scalable

There appears to be some success in isolating and encapsulating the cigarette butt, depending on what is used to encapsulate it, but it is not clear if a leakage is possible in the long run.[158] There also appears to be some progress in transforming cigarette butts into carbon powder, but the process is highly resource-intensive (e.g., carbonization at 800 degrees for 2 hours in a furnace[159]). There is very little likelihood that these would be feasible or scalable in low- and middle-income countries (LMICs) where most of the cigarette butts are littered.[160]

d. Circular economy is not designed for tobacco

Notably, the industry is using the "recycling approach" and cleanup programs as a CSR strategy to diminish the implementation of WHO FCTC (see Table 1: Examples of Tobacco Industry's CSR Activities on Clean up and Butt Collection Programs, along with Government partnerships/engagements, as reported by civil society via the Global Tobacco Industry Interference Index, 2023).[161]

Even assuming, for the sake of argument, that recycling can become safe and scalable, the tobacco industry designed cigarette filters in a manner that defrauded consumers for decades while continuously undermining bans on marketing and sponsorship, especially <u>tobacco's CSR</u> activities in contravention of Articles 5.3 and 13 of the WHO FCTC. Hence, it cannot be trusted to redesign its product for circularity.

Further, there is no logical model of a circular economy for tobacco because the plastics involved are a flawed, hazardous accessory to a fundamentally lethal product designed to kill up to half its users while providing no benefit to society.[3] The policy direction is to practically ban the product and its accessories, not encourage its further use or circulation in the economy. Any changes in the cigarette filter design (e.g., leading to easier recyclability) would also contravene product regulations that prevent the industry from introducing attractive design features.

Notably, even the center that produced the most influential technical reports on circularity skipped any mention of cigarette butts in its reports, [162] even though butts are some of the top plastic items polluting the earth and marine life, [163] and the center is affiliated with tobacco industry consultants. [164]

Recommendations

The future instrument should recognize that a circular economy for the cigarette butt/ tobacco industry is not feasible. In practice:

- Existing cigarette butts should be treated as hazardous waste and isolated or encapsulated.
- Governments must prohibit the circulation of products made from recycled cigarette butts to prevent contamination.[165]
- Governments should focus their efforts on banning cigarette butts altogether instead of recycling.[166]
- The circular economy approach cannot be applied to tobacco since this would undermine the objectives and implementation of the WHO FCTC.[167] At the minimum, an exception or distinction relating to the tobacco/tobacco industry should apply to each of the mentioned sections unless a specific clause is included in relation to tobacco.

4. Cigarette butt alternatives or substitutes should not be encouraged because in no instance can they be safe for the environment or public health.

The Revised Draft Text of the UN Plastics Treaty states that one of the options for its scope "should focus on development and promotion of sustainable alternatives to replace hazardous additives;"[168] and continues to suggest options to substitute hazardous or problematic plastic waste with sustainable alternatives.[169] However, using this language in the UN Plastics Treaty without an exception for tobacco products would undermine the WHO FCTC, particularly the WHO FCTC Partial Guidelines on Articles 9 and 10, which recommends removing attractive features of cigarettes. At the same time, the Guidelines on the Implementation of Article 13 prohibit the advertising, promotion, and sponsorship of tobacco products.

Extended Producer Responsibility Schemes are utilized to minimize the plastic pollution footprint of various industries. [170] These can include a variety of methods, including using substitutes for existing plastic products; however, in the case of tobacco, there are no known safe alternatives. Instead of EPR, the WHO FCTC's Article 19 [171] asks Parties to deal with the liability of the tobacco industry, and the WHO FCTC Guidelines for the Implementation of Article 5.3 recommends denormalizing tobacco's so-called socially responsible activities, under which the EPR could fall.

a. No safe alternatives

The biodegradability of a known non-plastic alternative, cellulose filter, may degrade faster than plastics (7.5-14 years in soil)[172] but could still take longer (2.3-13 years), [173] during which toxic constituents continue to leach,[174]causing harm to the soil biosystem[175] as well as among marine invertebrates.[176] Some biodegradable filters are marketed as degrading quickly, but the decomposition studies and their constituents have not been disclosed,[177] making it impossible to verify the true extent of the environmental impact. Furthermore, smoked filters take longer to decompose[178], but some decomposition tests are performed on filters before smoking.[179],[180]

b. Replacing with alternatives could avoid industry liability

The tobacco giant Philip Morris was seen to introduce legislation on biodegradable filters in Uruguay.[181] This is viewed as part of the tobacco industry's greenwashing efforts.[182] Greenbutts, a biodegradable cigarette filter (biofilter) manufacturing company, has been approaching the industry to adopt its product.[183] The shift to an alternative that has not been proven safe could also benefit the industry not only by increasing marketing opportunities but also by allowing it to cover up its decades of deception,[184] consequently enabling the industry to avoid liability for the health and environmental harms caused by a deliberately flawed product feature.[185]

c. Biodegradable or other alternatives risk undermining tobacco regulation

Changes to the filter design could further generate misinformation that cigarettes can be safe. [186] The new feature would inevitably serve as a marketing tool, including among the youth, [187] and would undermine tobacco control measures (advertising and sponsorship bans) that are in place. [188] A redesigned filter marketed as eco-friendly will likely allow smokers to discard 'biodegradable' cigarettes with less guilt. [189]

Recommendations

Although the general proposal to address plastics pollution is to consider safe alternatives, it bears stressing that there is no such thing as a safe alternative for cigarette butts.

Even assuming, for the sake of argument, that an eco-friendly filter can be designed, there is a risk that the same will be used as a marketing tactic to increase consumption and to avoid liability—thus undermining life-saving public health measures.

The future instrument on plastic pollution should recognize that over 180 Parties to the WHO FCTC will have to enforce tobacco marketing and sponsorship bans; hence, the upcoming instrument should:

- Respect advertising bans by preventing the introduction of attractive features as mandated by Article 9/10 and Article 13 of the WHO FCTC.[190]
- Recognize efforts to hold the tobacco industry liable for its harms, including to the environment (Article 19 of the WHO FCTC).[191]
- Exclude cigarette filters and related electronic products from the regulatory measures calling for the use of "safe alternatives." [192]
- Exclude cigarette filters from the options within the revised text, calling for using sustainable alternatives as no sustainable alternatives exist for cigarette filters.[193]
- The options adopted in the international legally binding instrument on plastic pollution related to Extended Producer Responsibility and redesign of plastic products should not undermine the provisions of WHO FCTC. They should be in accordance with the latest WHO FCTC COP decisions.

5. The Tobacco Industry should not be treated as a "stakeholder" or "responsible producer" but should be made to pay for the pollution.

While the COP10 Decision on Article 18(ii) provides guidance on addressing tobacco-related plastic pollution through multisectoral collaboration and policy coherence, especially in specific aspects (EPR, liability, hazardous waste....), it asks Parties to protect tobacco-related environmental policies from the commercial and vested interests of the tobacco industry and those working to further its interests. It also urges Parties "to counter the so-called corporate social responsibility activities of the tobacco industry, and to ensure that WHO FCTC objectives are not undermined through the industry's implementation of extended producer responsibility systems."[194]

Extended Producer Responsibility (EPR), commonly used to tackle plastic pollution, can clash with WHO FCTC objectives when applied to the tobacco industry. Viewing tobacco companies as EPR partners is problematic due to the inability to recycle hazardous cigarette butts and the risk of promoting cigarettes to youth with eco-friendly alternatives.

⁽ii) The tenth session of the WHO FCTC Conference of Parties decision on Article 18 (Protection of the Environment) considered "the work of the Intergovernmental Negotiating Committee on Plastic Pollution, the issue of microplastic pollution caused by plastic cigarette filters, ongoing global efforts in the development of standards for hazardous waste management under environmental laws."

Despite the tobacco industry's anti-littering campaigns, they fall short of reducing the environmental impact of tobacco production and consumption. This disconnect highlights the failure to align environmental policy with WHO FCTC, ignoring the unique harm caused by tobacco products and the industry's misleading practices regarding filters.[195]

Another COP 10 Decision on the Implementation of Article 19 (liability) recognizes the "potential use of liability in protecting the environment from tobacco harms;" [196] and outlines the specific asks in the international fora, such as the INC:

- For Parties to ensure that the work undertaken in these international fora, including in relation to the environment and regulation of business conduct, supports tobacco control and does not undermine it; [197]
- For the Secretariat to participate in global fora to promote policy coherence between tobacco industry liability and the development of international law in relation to the environment, human rights and regulation of business conduct (emphasis supplied).

Unlike other industries, tobacco does not positively contribute to society or the global economy. Tobacco consumption results in a negative net economic outcome, costing the world USD 1.4 trillion annually.[198] Because of the nature of its business, the tobacco industry violates human rights and undermines the achievement of over a dozen of the 17 SDGs.[199] The WHO FCTC classifies the tobacco industry as a "saboteur" and a "vector" of the tobacco epidemic. According to the WHO FCTC, health policies must be protected from interference from the tobacco industry, and as guidelines for the implementation of Article 5.3 provide, Parties are recommended to "Establish measures to limit interactions with the tobacco industry and ensure the transparency of those interactions that occur."[200] Hence, the tobacco industry is placed in a special category that is subject to exclusions. Moreover, tobacco taxes are imposed on tobacco to compensate for its negative externalities but at levels that leave much to be desired.[201]

a. Prohibition on partnerships with the tobacco industry (health)

Article 5.3 of the WHO FCTC obliges Parties to protect public health policies from the commercial and vested interests of the tobacco industry.[202] Its guidelines state that "the tobacco industry should not be a partner in any initiative linked to setting or implementing public health policies, given that its interests are in direct conflict with the goals of public health."[203] Furthermore, the so-called socially responsible activities of the tobacco industry should be normalized.[204] As a result, the tobacco industry's efforts to support or contribute to government initiatives invite suspicion and result in rejection, especially in jurisdictions that fully comply with the WHO FCTC.[205]

b. Prohibition on the tobacco industry's so-called Socially Responsible Activities (Tobacco CSR)

So-called socially responsible activities of the tobacco industry fall under TAPS, which are mandated to be prohibited under Article 13 of the WHO FCTC.[206] Over 70 countries already banned all forms of marketing by the tobacco industry, including so-called CSR.[207] Due to the fundamental conflict between tobacco industry interests and the interests of public health, there is an inherent contradiction between socially responsible activities and the tobacco industry.[208] In other words, the tobacco industry, which uses guile and deception to produce flawed products that kill, cannot be deemed capable of being a responsible producer.[209]

The tobacco industry is highly enthusiastic about its EPR initiatives as they allow it to portray them as part of its Environmental, Social, and Governance (ESG) compliance mechanisms. Tobacco CSR activities are reported as part of their ESG compliance work to increase their appeal to investors.[210] As stated previously, the tobacco industry's CSR activities, such as cleanups and anti-litter campaigns, [211] are publicity efforts to shift public perception and engage local officials, undermining tobacco regulations. For example, Philip Morris is partnering with local authorities in Colombia[212] and Costa Rica[213] to advertise its disposal and recycling programs. At the same time, ERION Care in Italy[214] and SPAK-EKO in Slovakia[215] are consortiums set up by four tobacco companies responsible for cleaning up and recycling tobacco waste (potentially influencing policy development and implementation). These are examples of how the industry can use CSR to attain a seat at the table with policymakers. CSR activities undertaken by tobacco companies (or those working to further their interests), such as contributions to community, health, or environmental organizations, tend to improve their public image, potentially overshadowing the adverse health effects of their products.[216] (See Table 1: Examples of Tobacco Industry's CSR Activities on Clean up and Butt Collection Programs, along with Government partnerships/ engagements, as reported by civil society via the Global Tobacco Industry Interference Index, 2023).[217] Tobacco CSR activities reported as part of ESG compliance to improve a corporation's appeal to investors have attracted criticism. [218]

EPR schemes currently undertaken in line with plastics policies have been used by the tobacco industry to promote themselves in a positive light and to partner with governments, undermining tobacco CSR bans and conflict of interest rules in WHO FCTC Article 5.3 Guidelines.[219] EPR schemes appear to be misunderstood as part of a polluters pay principle when, in reality, the amount charged to the tobacco producer does not sufficiently internalize the externalities, and the labeling of "EPR" for the tobacco industry inadvertently acknowledges the tobacco producer as a stakeholder. [220]

c. General prohibition on engaging with the tobacco industry

The tobacco industry, along with the arms industry, has long been recognized as actors whose functions are fundamentally inconsistent with human rights, including the UN Human Rights Charter.[221] The World Health Assembly (WHA) decided that the WHO shall not engage with the tobacco and arms industries.[222] The United Nations Economic and Social Council (ECOSOC) adopted a resolution[223] urging all UN Agencies to adopt a Model Policy[224] for Agencies of the United Nations System on Preventing Tobacco Industry Interference.[225] Many other UN Agencies, such as the United Nations Environment Programme (UNEP), United Nations Development Programme (UNDP), and the United Nations Educational, Scientific and Cultural Organization (UNESCO), among others, have adopted special rules to prevent engagements and/or conflicts of interest with the tobacco industry.[226]

d. Exclusions in economic policies and trade laws

The tobacco industry is also unique from an economic relations standpoint. Countries have also decided to exclude the tobacco industry from benefitting from trade and investment provisions in economic treaties. For instance, the tobacco sector is excluded from several bilateral and regional trade agreements.[227] In the Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP), the tobacco industry was stripped of the default benefit of seeking recourse in an investor-state dispute settlement. In the U.S., the government budget[228] and personnel[229] cannot be used to promote tobacco in foreign countries. In the UK, diplomatic officers must refrain from promoting the tobacco industry.[230]

Recommendations

A clear governance policy would benefit the future instrument by preventing conflicts of interest in implementing plastics policies. Concerning tobacco, a set of rules already exists and needs to be applied. Failure to apply these rules would undermine tobacco control measures.

Notably, policies purporting to advance human rights should not allow tobacco industry influence. According to the United Nations Commission on Human Rights (UNCHR), from a human rights policy, a conflict-of-interest policy would strengthen the plastics treaty and preserve the integrity of any policy in development. Article 5.3 of the WHO FCTC is cited as a model that can be considered.[231] The UN Agencies are guided by several instruments that proscribe engagements with the tobacco industry, including the Model Policy for UN Agencies adopted by the ECOSOC and the UN SD Group's Common Approach.

To ensure that tobacco-related policies are protected against the tobacco industry's interests, the UNEP should comply with these standards and screen the stakeholders it engages with. Hence,

- The INC and the INC Secretariat must adopt special rules to prevent the tobacco industry from being treated as a regular stakeholder.[232]
- The principle that there is a fundamental conflict of interest between the tobacco industry and public health must be reflected in the treaty since the treaty purports to have a health objective.
- Under the polluters pay principle (as opposed to EPR),[233] the tobacco industry's liability must be dealt with (including through taxation and other means to recoup costs of environmental harm).

III. Annex

Tobacco Industry's Environment "CSR"

It contains several examples from around the world of how the Tobacco Industry is using CSR activities to attain a seat at the table with policymakers, as documented in the Global Tobacco Industry Interference (link) from reports by civil society groups.

Country	Tobacco company	Activity	Government/local community engagement
Brazil*	Japan Tobacco International (JTI)	Collection and recycling of cigarette butts as well as installation of collectors in 10 beaches and neighborhoods of the city.	City of Florianópolis (Santa Catarina)
Bulgaria	Bulgarian Association of Tobacco Industry (BATI)	Cleaning of beaches and public spaces.	Ministry of Environment and Water (MoEW)
Colombia*	Philip Morris International (PMI)	Collection of cigarette butts.	Special Administrative Unit of Public Services of Bogota
Costa Rica*	PMI	Installing canisters in public places and butts collected were supposedly for research on disposal.	University of Costa Rica and local governments of Belén (Heredia) and Montes de Oca (San José)
Italy	PMI	Awareness campaign on the correct disposal of cigarette butts, with over 270,000 pocket butt holders distributed to smokers.	Ministry of Ecological Transition

Country	Tobacco company	Activity	Government/local community engagement
Korea*	KT&G	Cleanup campaign, along with the installation of up to 33 cigarette butt bins in 23 public facilities.	Local government of Suwon City
Mexico*	Philip Morris Mexico	A nationwide campaign for: 1) collection of cigarette butts by volunteers, 2) setting up cigarette bins in highly populated public spaces, 3) awareness campaign and piloting recycling.	Local communities
Philippines*	Philip Morris Fortune Tobacco Corp	Collection of 57,000 cigarette butts for World Clean Up Day.	Local communities
Spain*	Tobacco Bureau (Mesa del Tabaco) sponsored by PMI, BAT, JTI, Altadis, and others	Distribution of 4,500 portable ashtrays, 5,000 reusable ashtrays to clean up cigarette butts at the beach of Tarifa, as well as distribution of 5,000 paper bags for waste at the same beach.	Municipal government of Santiago de Compostela
Sweden*	Philip Morris Sweden	Greenwashing campaigns which include programs with children cleaning up cigarette butts.	Members of Parliament

Country	Tobacco company	Activity	Government/local community engagement
Switzerland	JTI, Swiss Cigarette	Environmental cleanup	Federal Office for the Environment (FOEN)
Switzerland	PMI Switzerland	Collection of 30,000 cigarette butts in the city of Lausanne.	City of Lausanne

^{* =} Denote countries with a ban on CSR activities for the tobacco industry

Source: Mary Assunta, Global Tobacco Industry Interference Index 2023, Global Center for Good Governance in Tobacco Control (GGTC), November 2023.

Please refer to the latest Global Tobacco Industry Interference Index to learn more.

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REFERENCES

1.

United Nations Environment Programme, 'Zero draft text of the international legally binding instrument on plastic pollution, including in the marine environment (September 2023). Available at:

https://wedocs.unep.org/bitstream/handle/20.500.11822/43239/ZERODRAFT.pdf

2.

United Nations Environment Programme, 'Revised draft text of the international legally binding instrument on plastic pollution, including in the marine environment' (December 2023) available at:

https://wedocs.unep.org/bitstream/handle/20.500.11822/44526/RevisedZeroDraftText.pdf

3.

Tobacco, World Health Organisation, July 31, 2023, Available at: https://www.who.int/news-room/fact-sheets/detail/tobacco.

4.

WHO Framework Convention on Tobacco Control, WHO, May 25, 2003,

https://fctc.who.int/publications/i/item/9241591013

5.

Annex 1: Core Obligations of Proposed 'Options' and their Implications on Tobacco Control, United Nations Environment Programme Options Paper: The Impact on Tobacco Control, Stop Tobacco Pollution Alliance, May 15, 2023, https://ggtc.world/library/united-nations-environment-programme-options-paper-the-impact-on-tobacco-control.

6.

WHO FCTC Highlighted in Plastics Treaty Negotiations for Synergy, The Global Center for Good Governance in Tobacco Control (GGTC), July 5, 2023,

https://ggtc.world/knowledge/who-fctc-article-53/who-fctc-highlighted-in-plastics-treaty-negotiations-for-synergy; citing: Co-facilitators report on discussions in Contact Group 1, Available at:

https://wedocs.unep.org/bitstream/handle/20.500.11822/42621/CG1.pdf.

7.

Report of the intergovernmental negotiating committee to develop an international legally binding instrument on plastic pollution, including in the marine environment, on the work of its second session, United Nations Environment Programme, July 6, 2023, Available at:

https://wedocs.unep.org/bitstream/handle/20.500.11822/42953/FinalINC2Report.pdf.

8.

WHO FCTC, 10TH Conference of the Parties Decision FCTC/COP10(14), "Implementation of Article 18 of the WHO FCTC" (Panama, 10 February 2024). Available at: https://storage.googleapis.com/who-fctc-cop10-source/Decisions/fctc-cop-10-14-en.pdf

9.

Evans-Reeves, Karen et al. "The 'filter fraud' persists: the tobacco industry is still using filters to suggest lower health risks while destroying the environment." Tobacco control vol. 31,e1 (2022): e80-e82. Doi:10.1136/tobaccocontrol-2020-056245 See also: Harris, Bradford. "The intractable cigarette 'filter problem'." Tobacco control vol. 20 Suppl 1,Suppl_1 (2011): i10-6. Doi:10.1136/tc.2010.040113, , Available at: https://pubmed.ncbi.nlm.nih.gov/33903277/. See also: Pulvers K, Tracy L, Novotny TE, et al, Switching people who smoke to unfiltered cigarettes: perceptions, addiction and behavioural effects in a cross-over randomised controlled trial, Tobacco Control 2023;32:520-523, available at:

https://tobaccocontrol.bmj.com/content/32/4/520

Hastrup, J.; Cummings, K.M.; Swedrock, T.; Hyland, A.; Pauly, J.; Consumers' knowledge and beliefs about the safety of cigarette filters, Tobacco Control 2001;10:84., Available at: https://tobaccocontrol.bmj.com/content/10/1/84.1.

11.

The increase in adenocarcinoma as people shifted from unfiltered to filtered cigarettes, especially implicating the evolution in filter design with respect to ventilation. See: Min-Ae Song and others, Cigarette Filter Ventilation and its Relationship to Increasing Rates of Lung Adenocarcinoma, JNCI: Journal of the National Cancer Institute, Volume 109, Issue 12, December 2017, djx075, https://doi.org/10.1093/jnci/djx075; citing: US Department of Health and Human Services. The Health Consequences of Smoking—50 Years of Progress. Atlanta, GA: US Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health; 2014

See also: John L. Pauly, Heather A. Allaart, Manuel I. Rodriguez, Richard J. Streck; Fibers Released from Cigarette Filters: An Additional Health Risk to the Smoker?1. Cancer Res 15 January 1995; 55 (2): 253–258.

12.

Tobacco in Plastics Policies, Stop Tobacco Pollution Alliance, November 9, 2022,

https://ggtc.world/knowledge/sustainability-and-human-rights/tobacco-in-plastics-policies; citing: Song MA, Benowitz NL, Berman M, et al. Cigarette Filter Ventilation and its Relationship to Increasing Rates of Lung Adenocarcinoma. J Natl Cancer Inst. 2017;109(12):djx075. doi:10.1093/jnci/djx0753

13.

"People who smoke perceived unfiltered cigarettes as having greater nicotine effects and less desirable sensory effects than filtered cigarettes, and they smoked fewer of these during the trial."

Source: Pulvers K, Tracy L, Novotny TE, et al, Switching people who smoke to unfiltered cigarettes: perceptions, addiction and behavioural effects in a cross-over randomised controlled trial, Tobacco Control 2023;32:520-523, available at:

https://tobaccocontrol.bmj.com/content/32/4/520

Novotny, Thomas E et al. "Cigarettes butts and the case for an environmental policy on hazardous cigarette waste." International journal of environmental research and public health vol. 6,5 (2009): 1691–705. doi:10.3390/ijerph6051691 See also: Risks Associated With Smoking Cigarettes With Low Machine-Measured Yields of Tar and Nicotine, U.S. Department of Health and Human Services, Public Health Service, National Institutes of Health, National Cancer Institute; 2001. Smoking and Tobacco Control Monograph No. 13. NIH Publication No. 02–5047.

https://cancercontrol.cancer.gov/sites/default/files/2020 -08/m13_complete.pdf

See also: Pulvers, Kim et al. "Switching people who smoke to unfiltered cigarettes: perceptions, addiction and behavioural effects in a cross-over randomised controlled trial." Tobacco control vol. 32,4 (2023): 520-523. doi:10.1136/tobaccocontrol-2021-056815. Available at: https://pubmed.ncbi.nlm.nih.gov/34799433/

15.

Min-Ae Song and others, Cigarette Filter Ventilation and its Relationship to Increasing Rates of Lung Adenocarcinoma, JNCI: Journal of the National Cancer Institute, Volume 109, Issue 12, December 2017, djx075,

https://doi.org/10.1093/jnci/djx075; citing: US Department of Health and Human Services. The Health Consequences of Smoking—50 Years of Progress. Atlanta, GA: US Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health; 2014

16.

Thun, M J et al. "Cigarette smoking and changes in the histopathology of lung cancer." Journal of the National Cancer Institute vol. 89,21 (1997): 1580–6. doi:10.1093/jnci/89.21.1580

17.

Novotny TE, Hamzai L, Cellulose acetate cigarette filter is hazardous to human health, Tobacco Control, Published Online First: 18 April 2023. doi: 10.1136/tc-2023-057925; citing: Belzagui F, Buscio V, Gutiérrez-Bouzán C, Vilaseca M. Cigarette butts as a microfiber source with a microplastic level of concern. Sci Tot Environ 2021;762:144165. Available at:

https://pubmed.ncbi.nlm.nih.gov/37072169/.

18.

Pauly JL, Mepani AB, Lesses JD, et al. Cigarettes with defective filters marketed for 40 years: what Philip Morris never told smokers. Tob Control 2002;11:i51-i61.

See also https://pubmed.ncbi.nlm.nih.gov/7812954/
Novotny TE, Hamzai L, Cellulose acetate cigarette filter is hazardous to human health, Tobacco Control, Published Online First: 18 April 2023. doi: 10.1136/tc-2023-057925.

Tobacco in Plastics Policies, Stop Tobacco Pollution Alliance, November 9, 2022,

https://ggtc.world/knowledge/sustainability-and-human-rights/tobacco-in-plastics-policies; citing: Pauly JL, Stegmeier SJ, Allaart HA, et al. Inhaled cellulosic and plastic fibers found in human lung tissue. Cancer Epidemiol Biomarkers Prev. 1998;7(5):419-428.

20.

"By the mid-1960s cigarette designers realized that the intractability of the 'filter problem' derived from a simple fact: that which is harmful in mainstream smoke and that which provides the smoker with 'satisfaction' are essentially one and the same. Only in the wake of this realization did the agenda of cigarette designers appear to transition away from mitigating the health hazards of smoking and towards the perpetuation of the notion that cigarette filters are effective in reducing these hazards. Filters became a marketing tool, designed to keep and recruit smokers as consumers of these hazardous products." Source: Harris, Bradford. "The intractable cigarette 'filter problem'." Tobacco control vol. 20 Suppl 1,Suppl_1 (2011): i10-6. Doi:10.1136/tc.2010.040113, Available at: https://pubmed.ncbi.nlm.nih.gov/21504917/.

21.

Hoek J, Gendall P, Eckert C, et al. Young Adult Susceptible Non-Smokers' and Smokers' Responses to Capsule Cigarettes Tobacco Control 2018;28(5):498-505. doi: doi:10.1136/tobaccocontrol-2018-054470 [published Online First: 2018/10/05].

22

Designed for Addiction: How the Tobacco Industry Has Made Cigarettes More Addictive, More Attractive to Kids and Even More Deadly, Campaign for Tobacco Free Kids, June 23, 2014, https://assets.tobaccofreekids.org/content/what-we-do/ind-ustry-watch/product-manipulation/2014-06-19-Designedfor-Addiction-web.pdf.

See also: Tobacco: Industry tactics to attract younger generations, World Health Organisation, March 25, 2020, https://www.who.int/news-room/questions-and-answers/item/tobacco-industry-tactics-to-attract-younger-generations#:":text=it%20introduced%20cigarette%20filters%20and%20the%20so-

called%20%E2%80%9Clight%E2%80%9D%20and%20%E2%80%9Cmild%E2%80%9D%20tobacco%20products%20as%20an%20alternative%20to%20quitting%2C%20reducing%20tobacco%20users%E2%80%99%20perceptions%20of%20risk%20and%20harm%2C%20and%20undermining%20effective%20tobacco%20control%20policies.

23.

Harris, Bradford. "The intractable cigarette 'filter problem'." Tobacco control vol. 20 Suppl 1,Suppl_1 (2011): i10-6. doi:10.1136/tc.2010.040113, Available at: https://pubmed.ncbi.nlm.nih.gov/21504917/.

24.

What happens to plastic in the sea?, Green Alliance, 2017, available at: https://green-alliance.org.uk/wp-content/uploads/2017/08/maritime_twitter_graphic.pdf.

25.

Plastic Rivers: Reducing The Plastic Pollution on our doorstep, Earthwatch Institute, available at:

https://earthwatch.org.uk/images/plastic/PlasticRiversReport_pdf.

26.

"CBs also rank first for the most common litter (~29 %) floating in marinas and harbors."

Source: Conradi, M., Sánchez-Moyano, J.E., Toward a sustainable circular economy for cigarette butts, the most common waste worldwide on the coast, Science of The Total Environment, Volume 847, 2022, 157634, ISSN 0048-9697, Available at: https://doi.org/10.1016/j.scitotenv.2022.157634.

"CB was also the second most common plastic item (5.14 %) found on the Mediterranean seabed (<30 m below depth, confirming once again the high abundance of CB in this sea" Source: Araujo, M. C, Costa, M. A critical review of the issue of cigarette butt pollution in coastal environments, 2019. Available at:

https://www.sciencedirect.com/science/article/abs/pii/S 0013935119300787.

28.

Ocean Conservancy International Coastal Cleanup: Summary Report for the United StatesThe Ocean Conservancy; 2007. Available online: http://www.oceanconservancy.org/site/News2? page=NewsArticle&id=11411.

29.

We Clean On 2021 Report, International Coastal Clean-up, Ocean Conservancy, 2021,

https://oceanconservancy.org/wp-content/uploads/2021/09/2020-ICC-Report Web FINAL-0909.pdf.

30.

Araujo, M. C, Costa, M. A critical review of the issue of cigarette butt pollution in coastal environments, 2019.

Available at:

https://www.sciencedirect.com/science/article/abs/pii/S0013935119300787.

31.

Sy, D., Tobacco's Toxic Plastics: A Global Outlook, The Global Center for Good Governance in Tobacco Control, June 2022, https://ggtc.world/knowledge/sustainability-and-human-rights/tobaccos-toxic-plastics-a-global-outlook. See also: "The tobacco industry has tried and failed to mitigate the impact of cigarette litter. Tobacco control advocates should explore alliances with environmental groups and propose policy options that hold the industry accountable for cigarette waste". Source: Smith, Elizabeth A., and Patricia A. McDaniel. "Covering Their Butts: Responses to the Cigarette Litter Problem." Tobacco Control, vol. 20, no. 2, 2011, pp. 100-06. JSTOR, https://www.jstor.org/stable/41320202. Accessed 3 Sept. 2023.

32.

WHO report on the global tobacco epidemic, 2023: protect people from tobacco smoke, World Health Organisation, July 31, 2023,

https://www.who.int/publications/i/item/9789240077164. See also: 2021 global progress report on implementation of the WHO Framework Convention on Tobacco Control, WHO Framework Convention on Tobacco Control, February 9, 2022,

https://fctc.who.int/publications/i/item/9789240041769

33.

Global tobacco epidemic, 2023: protect people from tobacco smoke, World Health Organisation, July 31, 2023, https://www.who.int/publications/i/item/9789240077164.

34.

Sy, D., Tobacco's Toxic Plastics: A Global Outlook, The Global Center for Good Governance in Tobacco Control, June 2022, Annex 5, https://ggtc.world/knowledge/sustainability-and- <u>human-rights/tobaccos-toxic-plastics-a-global-outlook</u> See also: Philip Morris International (PMI) — the makers of Marlboro — claims it wants to reduce plastic litter from its products by 50% from 2021 to 2025 as part of its "Our World Is Not an Ashtray" initiative. Notwithstanding that filters — which are made of plastic — make it easier to smoke, to inhale more deeply, and convince smokers that they are using a "safer" cigarette when in fact smoking filtered cigarettes provides no health protection and may lead to an increased risk of adenocarcinoma of the lung. PMI also touts clean-up efforts but these efforts barely make a dent in the vast amounts of tobacco litter, given that with up to two-thirds of every smoked cigarette discarded onto the ground, 340 and 680 million kilograms of waste tobacco product litter the world each year. The sheer volume of e-cigarette waste that is created in a year can be estimated by looking at national sales data. Source: A toxic, plastic problem: E-cigarette waste and the environment, Truth Initiative, March 8, 2021, available at: https://truthinitiative.org/research-resources/harmfuleffects-tobacco/toxic-plastic-problem-e-cigarette-wasteand-environment.

35.

Tobacco: Poisoning Our Planet, World Health Organisation, May 29, 2022,

https://www.who.int/publications/i/item/9789240051287. See also: Tobacco in Plastics Policies, Stop Tobacco Pollution Alliance, November 9, 2022,

https://ggtc.world/knowledge/sustainability-and-human-rights/tobacco-in-plastics-policies.

36.

10 Downing Street, 'Rishi Sunak bans disposable vapes' (YouTube video, January 2024)

https://www.youtube.com/watch?v=M67dZKjXi9Q at 0:19. See also Department of Education, 'Disposable vape ban and what it means for young people' (Blogpost, January 2024). Available at: https://rb.gy/njm8bp

37.

National Assembly (France), 'Law proposition: aimed at banning single-use electronic vaping devices, Bill No. 2162' (February 2024). Available at: https://www.assemblee-nationale.fr/dyn/16/textes/116b2162 proposition-loi.

38.

Bundesrat Resolution, 'Federal Council resolution for a ban on single-use plastic electronic cigarettes: Decision Document' (October 2023). Available at:

https://www.bundesrat.de/SharedDocs/drucksachen/2023/0001-0100/3-23(B).pdf? blob=publicationFile&v=1

39.

enacted/a3523.pdf

Minster of Health, House of Oireachtas (Ireland), 'PUBLIC HEALTH (TOBACCO PRODUCTS AND NICOTINE INHALING PRODUCTS) ACT 2023' (2023). Available at: https://data.oireachtas.ie/ie/oireachtas/act/2023/35/eng/

"to examine regulatory options regarding the prevention and management of waste generated by the tobacco industry and its products, including a ban on plastic cigarette filters and the management of hazardous waste from cigarettes..." Source: WHO FCTC, 10TH Conference of the Parties Decision FCTC/COP10(14), "Implementation of Article 18 of the WHO FCTC" (Panama, 10 February 2024). Available at: https://storage.googleapis.com/who-fctc-cop10-source/Decisions/fctc-cop-10-14-en.pdf

41.

Sy, D. and Huber, L., Global Plastics Treaty must align with Global Tobacco Control Treaty, Tobacco Control, November 2022, https://blogs.bmj.com/tc/2022/11/08/global-plastics-treaty-must-align-with-global-tobacco-control-treaty/

42.

A new global treaty on plastics- and why it is important for tobacco regulation, Physicians for a Smoke-Free Canada, November 2022, available at: http://smoke-free-canada.blogspot.com/2022/11/a-new-global-treaty-on-plastics-and.html

43.

Regulating High-Risk Plastic Products, Global Measures To Eliminate, Reduce, Circulate And Safely Manage High-Risk Plastic Products, Towards a Treaty to End Plastic Pollution, WWF, 2023, available at:

https://wwfint.awsassets.panda.org/downloads/wwf_regu_lating_high_risk_plastic_products.pdf

44.

United Nations Environment Programme Options Paper: The Impact on Tobacco Control, Stop Tobacco Pollution Alliance, May 15, 2023, https://ggtc.world/library/united-nations-environment-programme-options-paper-the-impact-on-tobacco-control.

45.

lbid

46.

Tobacco industry tactics around Single Use Plastics (SUP) policies and civil society efforts to countering these, Comité National Contre le Tabagisme, June 2022, available at: https://fctc.who.int/publications/m/item/tobacco-industry-tactics-around-single-use-plastics(sup)-policies-and-civil-society-efforts-to-countering-these

47.

Roselyne Min, Butt why? The EU countries weighing a ban on cigarette filters to deter smoking and cut pollution, Euro News, May 2023, available at:

https://www.euronews.com/next/2023/05/14/shouldeurope-ban-cigarette-filters-experts-say-it-would-detersmoking-help-environment

48.

The Impact of Cigarette Filters on Public Health and the Belgian Environment, Superior Health Council, April 2023, Shc № 9726, available at:

https://www.health.belgium.be/sites/default/files/upload s/fields/fpshealth theme file/20230612 shc 9726 cigar ette filters vweb 1.pdf

49.

Letter to parliament on policy options for reducing cigarette filters in litter, The National Government for the Netherlands, 19th April 2023, Available at:

https://www.rijksoverheid.nl/regering/bewindspersonen/vivianne-

<u>heijnen/documenten/kamerstukken/2023/04/19/beleidsopties-ter-reductie-van-sigarettenfilters-in-zwerfafval</u>

50.

Chini, M., Cigarette filters do 'more harm than good,' experts call for EU-wide ban, The Brussels Times, April 2023, https://www.brusselstimes.com/476676/cigarette-filters-do-more-harm-than-good-experts-call-for-eu-wide-ban; citing: The Impact of Cigarette Filters on Public Health and the Belgian Environment, Superior Health Council, April 2023, Shc № 9726, available at:

https://www.health.belgium.be/sites/default/files/uploads/fields/fpshealth theme file/20230612 shc 9726 cigarette filers vweb 1.pdf.

51.

"All kinds of products which contain or are partly or entirely made of any form of plastic materials (polymers) e.g. single-use products such as cigarette butts, packaging, consumer goods, building materials, materials and chemicals used in offshore industries..."

Singapore, 'In-session submission: Singapore's Views on the Preamble, Definitions, Scope and Principles to be Included in the Draft Text of the Instrument' (2023) available at: https://resolutions.unep.org/resolutions/uploads/singapore-preambledefinitionsscopeandprinciples.pdf.

52.

"Palau would also like to call for the inclusion of cigarette filters on this list, as they are the most littered items in the world, harm land and marine eco-systems, are very difficult to collect, and disintegrate into toxic micro-plastics." Palau, 'In session submissions: Statement by Palau at INC-3 Part II Item 5a - Problematic and avoidable plastic products, including short-lived and single-use plastic products and intentionally added microplastics' (2023) available at:

https://resolutions.unep.org/resolutions/uploads/palau_problematicandavoidableplasticproducts.pdf

53.

Evans-Reeves, Karen et al. "The 'filter fraud' persists: the tobacco industry is still using filters to suggest lower health risks while destroying the environment." Tobacco control vol. 31,e1 (2022): e80-e82. doi:10.1136/tobaccocontrol-2020-056245

See also: Harris, Bradford. "The intractable cigarette 'filter problem'." Tobacco control vol. 20 Suppl 1,Suppl_1 (2011): i10-6. doi:10.1136/tc.2010.040113 See also: Pauly JL, Mepani AB, Lesses JD, et al. Cigarettes with defective filters marketed for 40 years: what Philip Morris never told smokers. Tob Control 2002;11:i51-i61.,

https://tobaccocontrol.bmj.com/content/11/suppl 1/i51.

54.

Sy, D. and Huber, L., Global Plastics Treaty must align with Global Tobacco Control Treaty, Tobacco Control, November 2022, https://blogs.bmj.com/tc/2022/11/08/global-plastics-treaty-must-align-with-global-tobacco-control-treaty/

Hoek, J., Gendall, P., Novotny, T. E., The case for banning cigarette filters, Public Health Expert Briefing, ISSN 2816-1203, May 2021, available at:

https://www.phcc.org.nz/briefing/case-banningcigarette-filters.

56.

Regulating High-Risk Plastic Products, Global Measures To Eliminate, Reduce, Circulate And Safely Manage High-Risk Plastic Products, Towards a Treaty to End Plastic Pollution, WWF, 2023, available at:

https://wwfint.awsassets.panda.org/downloads/wwf_regu_lating_high_risk_plastic_products.pdf

57.

Oren, E.; Pulvers, K.; Romero, D.; Barber, C.; Carter, E.; Tracy, L.; Novotny, T.; Effects of Unfiltered Cigarettes on Smoking Behavior and Toxicant Exposure: Protocol for a Randomized Crossover Clinical Trial, 2020 Dec 8. doi: 10.2196/19603. Available at:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7755531/. **58**.

"Since the largest particles are retained, filters reduced irritation resulting in lower estimated risks"

Source: The Impact of Cigarette Filters on Public Health and the Belgian Environment, Superior Health Council, April 2023, Shc № 9726, available at:

https://www.health.belgium.be/sites/default/files/upload s/fields/fpshealth theme file/20230612 shc 9726 cigar ette filters vweb 1.pdf; citing: Kozlowski LT, O'Connor RJ. Cigarette filter ventilation is a defective design because of misleading taste, bigger puffs and blocked vents. Tobacco Control 2002;11:i40-i50; Oliveira da Silva AL, Schimaneski Piras S, Aguinaga Bialous S, Costa Moreira J. Health without filters: the health and environmental impacts of cigarette filters. Ciência & Saúde Coletiva 2021;26:2395-2401. Available from: URL: https://doi.org/10.1590/1413-81232021266.23692019

59.

The Impact of Cigarette Filters on Public Health and the Belgian Environment, Superior Health Council, April 2023, Shc № 9726, available at:

https://www.health.belgium.be/sites/default/files/upload s/fields/fpshealth theme file/20230612 shc 9726 cigar ette filters vweb 1.pdf; citing: Augustine A, Harris RE, Wynder EL. Compensation as a Risk Factor for Lung Cancer in Smokers who Switch from Nonfilter to Filter Cigarettes. American Journal of Public Health 1989;79:188–191, available from: URL: https://doi.org/10.2105/ajph.79.2.188

60.

Thun MJ, Heath CW Jr. Changes in mortality from smoking in two American Cancer Society prospective studies since 1959. Prev Med. 1997 Jul-Aug;26(4):422-6. doi: 10.1006/pmed.1997.0182. PMID: 9245660 (also available at https://www.industrydocuments.ucsf.edu/docs/ysyj0191)

61.

During the shift to filtered cigarettes, tobacco companies also changed the composition of tobacco eg by adding reconstituted tobacco (including stems).

Source: Thun MJ, Heath CW Jr. Changes in mortality from smoking in two American Cancer Society prospective studies since 1959. Prev Med. 1997 Jul-Aug; 26(4):422-6. doi: 10.1006/pmed.1997.0182. PMID: 9245660. (Also available at https://www.industrydocuments.ucsf.edu/docs/ysyj0191)

62.

Position Paper for the Secretariat of INC-2, Stop Tobacco Pollution Alliance, Jan 08, 2023, https://ggtc.world/library/position-paper-for-the-secretariat-of-inc-2.

63.

Evans-Reeves, Karen et al. "The 'filter fraud' persists: the tobacco industry is still using filters to suggest lower health risks while destroying the environment." Tobacco control vol. 31,e1 (2022): e80-e82. doi:10.1136/tobaccocontrol-2020-056245, Available at:

https://pubmed.ncbi.nlm.nih.gov/33903277/.

64.

Co-facilitators report on discussions in Contact Group 1, United Nations Environment Programme, June 2023, https://wedocs.unep.org/bitstream/handle/20.500.11822/42621/CG1.pdf See also: Report of the intergovernmental negotiating committee to develop an international legally binding instrument on plastic pollution, including in the marine environment, on the work of its second session, United Nations Environment Programme, July 6, 2023.

65.

"Some Members requested language on means of implementation, development of a list of criteria or list of products, such as cigarette filters, alternatives, science-based approach, traditional knowledge, and consideration of human health and the environment" Source: Co-facilitators summary of discussions in Contact Group 1, United Nations Environment Programme, November 2023. Available at: https://wedocs.unep.org/bitstream/handle/20.500.11822/44

66.

Co-facilitators report on discussions in Contact Group 1, United Nations Environment Programme, June 2023, https://wedocs.unep.org/bitstream/handle/20.500.11822/42621/CG1.pdf See also: Report of the intergovernmental negotiating committee to develop an international legally binding instrument on plastic pollution, including in the marine environment, on the work of its second session, United Nations Environment Programme, July 6, 2023.

67.

WHO FCTC, 10TH Conference of the Parties Decision FCTC/COP10(14), "Implementation of Article 18 of the WHO FCTC" (Panama, 10 February 2024). Available at: https://storage.googleapis.com/who-fctc-cop10-source/Decisions/fctc-cop-10-14-en.pdf

68.

lbid **69.**

WHO FCTC, 10TH Conference of the Parties Decision FCTC/COP10(14), "Implementation of Article 18 of the WHO FCTC" (Panama, 10 February 2024). Available at: https://storage.googleapis.com/who-fctc-cop10-source/Decisions/fctc-cop-10-14-en.pdf

70.

Green, A.L.R.; Putschew, A.; Nehls, T. Littered cigarette butts as a source of nicotine in urban waters. J. Hydrol. 2014, 519, 3466–3474. [CrossRef]. Available at:

https://www.sciencedirect.com/science/article/abs/pii/S0022169414004107?via%3Dihub.

Zhao, J.; Zhang, N.; Qu, C.; Wu, X.; Zhang, J.; Zhang, X. Cigarette Butts and Their Application in Corrosion Inhibition for N80 Steel at 90 °C in a Hydrochloric Acid Solution. Ind. Eng. Chem. Res. 2010, 49, 3986–3991. [CrossRef] Available at: https://pubs.acs.org/doi/10.1021/ie100168s.

72.

Zhao, Jun & Zhang, Ningsheng & Qu, Chengtun & Zhang, Juantao & Zhang, Xiang. (2010). Comparison of the Corrosion Inhibitive Effect of Anaerobic and Aerobic Cigarette Butts Water Extracts on N80 Steel at 90 °C in Hydrochloric Acid Solution. Industrial & Engineering Chemistry Research. 49. 10.1021/ie1011454.

73.

Dobaradaran, S.; Schmidt, T.C.; Lorenzo-Parodi, N.; Kaziur-Cegla, W.; Jochmann, M.A.; Nabipour, I.; Lutze, H.V.; Telgheder, U. Polycyclic aromatic hydrocarbons (PAHs) leachates from cigarette butts into water. Environ. Pollut. 2020, 259, 113916. Available at:

https://pubmed.ncbi.nlm.nih.gov/32023793/.

74.

Moriwaki, H.; Kitajima, S.; Katahira, K. Waste on the roadside, 'poi-sute' waste: Its distribution and elution potential of pollutants into environment. Waste Manag. 2009, 29, Available at:

https://pubmed.ncbi.nlm.nih.gov/18851907/

75.

Moerman, J.W.; Potts, G.E. Analysis of metals leached from smoked cigarette litter. Tob. Control 2011, Available at: https://pubmed.ncbi.nlm.nih.gov/21504922/.

76.

Dobaradaran, S.; Nabipour, I.; Saeedi, R.; Ostovar, A.; Khorsand, M.; Khajeahmadi, N.; Hayati, R.; Keshtkar, M. Association of metals (Cd, Fe, As, Ni, Cu, Zn and Mn) with cigarette butts in northern part of the Persian Gulf. Tob. Control 2017, 26, 461–463. Available at: http://eprints.bpums.ac.ir/6175/1/dobaradaran%2012016.p df.

77.

Dobaradaran, S.; Schmidt, T.C.; Kaziur-Cegla, W.; Jochmann, M.A. BTEX compounds leachates from cigarette butts into water environment: A primary study. Environ. Pollut. 2021, 269, 116185. Available at: https://www.sciencedirect.com/science/article/abs/pii/S0269749120368743

78.

79.

Zhao, J.; Zhang, N.; Qu, C.; Zhang, J.; Zhang, X. Comparison of the Corrosion Inhibitive Effect of Anaerobic and Aerobic Cigarette Butts Water Extracts on N80 Steel at 90 °C in Hydrochloric Acid Solution. Ind. Eng. Chem. Res. 2010, 49, 12452–12460. [CrossRef] Available at: https://pubs.acs.org/doi/full/10.1021/ie1011454

Dobaradaran, S.; Schmidt, T.C.; Lorenzo-Parodi, N.; Jochmann, M.A.; Nabipour, I.; Raeisi, A.; Stojanovic, N.; Mahmoodi, M. Cigarette butts: An overlooked source of PAHs in the environment? Environ. Pollut. 2019, 249, 932-939. [CrossRef] Available at:

https://pubmed.ncbi.nlm.nih.gov/30965545/

80.

Moerman, J.W.; Potts, G.E. Analysis of metals leached from smoked cigarette litter. Tob. Control 2011, 20, i30-i35. [CrossRef] Available at:

https://pubmed.ncbi.nlm.nih.gov/21504922/

81.

Rebischung, F., Chabot, L., Biaudet, H., et al., Cigarette butts: A small but hazardous waste, according to European regulation, Waste Management, Volume 82, 2018, Pages 9-14, ISSN 0956-053X,

https://doi.org/10.1016/j.wasman.2018.09.038

82.

King IC, Lorenzi V, Blasius ME, Gossett R. Leachates from cigarette butts can persist in marine sediment. Water Air Soil Pollut. 2021;232(2):38.

83

"the order of the toxicity of leachates can be predicted. It was determined that organic compounds caused the majority of toxicity in the cigarette butt leachates. Of the 14 organic compounds identified, nicotine and ethylphenol were suspected to be the main causative toxicants" Source: Micevska, T et al. "Variation in, and causes of, toxicity of cigarette butts to a cladoceran and microtox." Archives of environmental contamination and toxicology vol. 50,2 (2006): 205–12. doi:10.1007/s00244-004-0132-y

84.

Mansouri, Nafiseh et al. "Genotoxicity and phytotoxicity comparison of cigarette butt with cigarette ash." Environmental science and pollution research international vol. 27,32 (2020): 40383–40391. doi:10.1007/s11356-020-10080-z **85.**

Montalvão, Mateus Flores et al. "An insight into the cytotoxicity, genotoxicity, and mutagenicity of smoked cigarette butt leachate by using Allium cepa as test system." Environmental science and pollution research international vol. 26,2 (2019): 2013-2021. doi:10.1007/s11356-018-3731-2

86.

Lucia, G., Giuliani, M. E., d'Errico, G., et. al., Toxicological effects of cigarette butts for marine organisms, Environment International, Volume 171, 2023, 107733, ISSN 0160-4120, https://doi.org/10.1016/j.envint.2023.107733 87.

Montalvão, Mateus Flores et al. "An insight into the cytotoxicity, genotoxicity, and mutagenicity of smoked cigarette butt leachate by using Allium cepa as test system." Environmental science and pollution research international vol. 26,2 (2019): 2013-2021. doi:10.1007/s11356-018-3731-2

88.

Di Giacomo, Silvia et al. "Mutagenicity of cigarette butt waste in the bacterial reverse mutation assay: The protective effects of β -caryophyllene and β -caryophyllene oxide." Environmental toxicology vol. 31,11 (2016): 1319–1328. doi:10.1002/tox.22136 **89.**

Nitschke, T., Bour, A., Bergquist, M. et al. Smokers' behaviour and the toxicity of cigarette filters to aquatic life: a multidisciplinary study. Micropl.&Nanopl. 3, 1 (2023). https://doi.org/10.1186/s43591-022-00050-2

Dobaradaran, S., Schmidt, T.C., Lorenzo-Parodi, N., et. al., Cigarette butts: An overlooked source of PAHs in the environment?, Environmental Pollution, Volume 249, 2019, Pages 932–939, ISSN 0269–7491,

https://doi.org/10.1016/j.envpol.2019.03.097.

91.

Green, Dannielle Senga et al. "Smoked cigarette butt leachate impacts survival and behaviour of freshwater invertebrates." Environmental pollution (Barking, Essex: 1987) vol. 266,Pt 3 (2020): 115286. doi:10.1016/j.envpol.2020.115286

92.

Caridi, F., Sabbatini, A., Birarda, G., Cigarette butts, a threat for marine environments: Lessons from benthic foraminifera (Protista), Marine Environmental Research, Volume 162, 2020, 105150, ISSN 0141-1136, https://doi.org/10.1016/j.marenvres.2020.105150

93.

Abessa, D. M. de S., A. dos S. B. Ortega, G. P. Marinsek, L. Y. Roselli, L. D. D. Chelotti, e F. C. Perina. " / Toxicidade Aguda Do Lixiviado De Bitucas De Cigarro Sobre Náuplios De Artemia Sp". Brazilian Journal of Animal and Environmental Research, vol. 4, n° 1, fevereiro de 2021, p. 659-70, doi:10.34188/bjaerv4n1-055, available at: https://www.brazilianjournals.com/index.php/BJAER/articlev/view/24539

94.

Slaughter, E., Gersberg, R. M., Watanabe, K., Rudolph, J., Stransky, C., & Novotny, T. E. (2011). Toxicity of cigarette butts, and their chemical components, to marine and freshwater fish. Tobacco control, 20 Suppl 1(Suppl_1), i25-i29. Available at: https://doi.org/10.1136/tc.2010.040170 **95.**

Dobaradaran, S., Soleimani, F., Akhbarizadeh, R., et. al., Environmental fate of cigarette butts and their toxicity in aquatic organisms: A comprehensive systematic review, Environmental Research, Volume 195, 2021, 110881, ISSN 0013–9351, https://doi.org/10.1016/j.envres.2021.110881

96.

"In Brazil coastal town, study showed "The toxicity results indicated that CBs the leachates extracted from a small amount of CBs was sufficient to affect copepod reproduction (0.1 and 0.01 CBs L-1)."

Source: Lima, C. F., Pinto, M., Choueri, R. B., et. al., Occurrence, characterization, partition, and toxicity of cigarette butts in a highly urbanized coastal area, Waste Management, Volume 131, 2021, Pages 10–19, ISSN 0956-053X, https://doi.org/10.1016/j.wasman.2021.05.029

97.

Nitschke, T., Bour, A., Bergquist, M. et al. Smokers' behaviour and the toxicity of cigarette filters to aquatic life: a multidisciplinary study. Micropl.&Nanopl. 3, 1 (2023). https://doi.org/10.1186/s43591-022-00050-2

98.

Dieng, H., Rajasaygar, S., Ahmad, A. H., et. al., Turning cigarette butt waste into an alternative control tool against an insecticide-resistant mosquito vector, Acta Tropica, Volume 128, Issue 3, 2013, Pages 584–590, ISSN 0001-706X, https://doi.org/10.1016/j.actatropica.2013.08.013.

99.

Dobaradaran, S., Soleimani, F., Akhbarizadeh, R., et. al., Environmental fate of cigarette butts and their toxicity in aquatic organisms: A comprehensive systematic review, Environmental Research, Volume 195, 2021, 110881, ISSN 0013-9351, https://doi.org/10.1016/j.envres.2021.110881

100.

Dobaradaran, S., Schmidt, T. C., Lorenzo-Parodi, N., et. al., Polycyclic aromatic hydrocarbons (PAHs) leachates from cigarette butts into water, Environmental Pollution, Volume 259, 2020, 113916, ISSN 0269-7491,

https://doi.org/10.1016/j.envpol.2020.113916

101.

Vanapalli, K.R.; Sharma,H.B.; Anand,S.; Ranjan, V.P; Singh,H.; Dubey, B.; Mohanty,B.; Cigarettes butt littering: The story of the world's most littered item from the perspective of pollution, remedial actions, and policy measures, Volume 453, 5 July 2023, 131387, Available at:

https://www.sciencedirect.com/science/article/abs/pii/S03 04389423006702

102.

lbid

103.

Torkashvand,J.;Godini K.;Norouzi,S.;Gholami,M.;Yeganeh, M.;Farzadkia M.;Effect of cigarette butt on concentration of heavy metals in landfill leachate: health and ecological risk assessment,Feb 2021, Available at:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8172723/104.

El Hadri, H.;Maza Lisa, J.;Gigault J.;Reynaud S.;Grassl, B.,Fate of nanoplastics in the environment: Implication of the cigarette butts, 2021. Available at:

https://doi.org/10.1016/j.envpol.2020.115170

105.

Green, A.L.R.; Putschew, A.; Nehls, T. Littered cigarette butts as a source of nicotine in urban waters. J. Hydrol. 2014, 519, 3466–3474. cited by https://merg.sdsu.edu/wp-content/uploads/2022/05/Appendix-A-Review-of- "Roder Green et al. found that nicotine rapidly leached from test CBs, and estimated that one CB can contaminate 1000 L of water with nicotine to levels that are chronically toxic to biota" Available at:

https://www.sciencedirect.com/science/article/abs/pii/S00 22169414004107?via%3Dihub.

106.

Wright, S., Rowe, D., Reid, M. et al. Bioaccumulation and biological effects of cigarette litter in marine worms. Sci Rep 5, 14119 (2015). https://doi.org/10.1038/srep14119
See also: Lenard Jason Yabes, Bioaccumulation of Organic Compounds from Smoked Cigarette Litter in the Freshwater Rainbow Trout, Oncorhynchus mykiss, San Diego State University, 2018, available at:

https://digitallibrary.sdsu.edu/islandora/object/sdsu%3A24517

107.

Santos-Echeandía, Juan et al. "The role of cigarette butts as vectors of metals in the marine environment: Could it cause bioaccumulation in oysters?." Journal of hazardous materials vol. 416 (2021): 125816. doi:10.1016/j.jhazmat.2021.125816

108

Mustafic, Hazrije et al. "Impacts of cigarette-butt pollution on human, animal, vegetal and environmental health: A systematic review." Tobacco Prevention & Cessation, vol. 6, no. Supplement, 2020, A92. doi:10.18332/tpc/128448.

Novotny, Thomas & Hardin, Sarah & Hovda, Lynn & Novotny, Dale & McLean, Mary & Khan, Safdar. (2011). Tobacco and cigarette butt consumption in humans and animals. Tobacco control. 20 Suppl 1. i17–20. 10.1136/tc.2011.043489 available at:

https://www.researchgate.net/publication/51062564 Tobacco and cigarette butt consumption in humans and animals

110.

Beaumont, N.J.; Aanesen, M.; Austen, M.C.; Börger, T.; Clark, J.R.; Cole, M.; Hooper, T.; Lindeque, P.K.; Pascoe, C.; Wyles, K.J. Global ecological, social and economic impacts of marine plastic. Mar. Pollut. Bull. 2019, 142, 189–195. [CrossRef] Available at:

https://pubmed.ncbi.nlm.nih.gov/31232294/

111.

How Should Tobacco Companies Pay for their Pollution? The Global Center for Good Governance in Tobacco Control (GGTC), 2022,

https://tobaccoplastics.ggtc.world/

112.

Smith, E.A.; Novotny, T.E. Whose butt is it? tobacco industry research about smokers and cigarette butt waste. Tob. Control 2011, 20, i2-i9. Available at:

https://pubmed.ncbi.nlm.nih.gov/21504919/ "The tobacco industry has feared being held responsible for cigarette litter for more than 20 years. Their efforts to avoid this responsibility included developing biodegradable filters, creating anti-litter campaigns, and distributing portable and permanent ashtrays. They concluded that biodegradable filters would probably encourage littering and would not be marketable, and that smokers were defensive about discarding their tobacco butts and not amenable to anti-litter efforts."

113.

Beutel, M.; Harmon, T.; Novotny, T., et. al., A Review of Environmental Pollution from the Use and Disposal of Cigarettes and Electronic Cigarettes: Contaminants, Sources, and Impacts, Sustainability 2021, 13(23), 12994; Available at: https://doi.org/10.3390/sul32312994, citing: U.S. Department of Health and Human Services. Enforcement Priorities for Electronic Nicotine Delivery Systems (ENDS) and Other Deemed Products on the Market without Premarket Authorization: Guidance for Industry; Office of Compliance and Enforcement, Office of Health Communication and Education, Office of Regulations, and Office of Science in the Center for Tobacco Products, Food and Drug Administration, U.S. Department of Health and Human Services: Silver Spring, MD, USA, 2020.

114.

Schneider, J.E.; Peterson, N.A.; Kiss, N.; Ebeid, O.; Doyle, A.S. Tobacco litter costs and public policy: A framework and methodology for considering the use of fees to offset abatement costs. Tob. Control 2011, 20, i36-i41. Available

 $\frac{\text{https://www.researchwithnj.com/en/publications/tobacco}}{-\text{litter-costs-and-public-policy-a-framework-and-methodolog-2}}$

115.

Schneider, J.E.; Scheibling, C.M.; Peterson, N.A.; Granados, P.S.; Fulton, L.; Novotny, T.E. Online Simulation Model to Estimate the Total Costs of Tobacco Product Waste in Large U.S. Cities. Int. J. Environ. Res. Public Health 2020, 17, 4705. Available at: https://pubmed.ncbi.nlm.nih.gov/32629929/

116.

Schneider, J.E.; Peterson, N.A.; Kiss, N.; Ebeid, O.; Doyle, A.S. Tobacco litter costs and public policy: A framework and methodology for considering the use of fees to offset abatement costs. Tob. Control 2011, 20, i36-i41. Available at: https://www.researchwithnj.com/en/publications/tobacco-litter-costs-and-public-policy-a-framework-and-methodolog-2

117.

Novotny, T.E.; Lum, K.; Smith, E.; Wang, V.; Barnes, R. Cigarettes Butts and the Case for an Environmental Policy on Hazardous Cigarette Waste. Int. J. Environ. Res. Public Health 2009, 6, 1691–1705. Available at:

https://pubmed.ncbi.nlm.nih.gov/19543415/

See also: Wallbank, L.; MacKenzie, R.; Freeman, B.; Winstanley, M.H. The Environmental Impact of Tobacco Use. In Tobacco in Australia: Facts and Issues; Scollo, M.M., Winstanley, M.H., Eds.; Cancer Council Victoria: Melbourne, Australia, 2016. Available at:

https://researchers.mq.edu.au/en/publications/the-environmental-impact-of-tobacco-use

118.

U.S. Department of Health and Human Services. Enforcement Priorities for Electronic Nicotine Delivery Systems (ENDS) and Other Deemed Products on the Market without Premarket Authorization: Guidance for Industry; Office of Compliance and Enforcement, Office of Health Communication and Education, Office of Regulations, and Office of Science in the Center for Tobacco Products, Food and Drug Administration, U.S. Department of Health and Human Services: Silver Spring, MD, USA, 2020. Available at:

https://www.fda.gov/media/133880/download

GGTC Global toxic report and Sy, BMJ Marine estimates. **120.**

"E-cigarettes generate substances some of which are known to cause cancer and, on their own, they are associated with increased risk of lung disorders, poisoning, injuries and burns and immediate nicotine toxicity through inhalation" Source: World Health Organisation, 'Technical note on the call to action on electronic cigarettes' (December 2023). Available at https://cdn.who.int/media/docs/default-source/tobacco-hq/regulating-tobacco-products/ends-call-to-action-background.pdf?sfvrsn=7dd2856e 11&download=true

World Health Organisation, 'Pre-session Submissions: Input on the potential areas of intersessional work to inform the work of INC-3 (following the lists compiled by the co-facilitators of the two contact groups)' (August 2023). Available at: https://resolutions.unep.org/resolutions/uploads/who-partb-28082023 1.pdf

"WHO supports the immediate ban of plastics in nicotine and tobacco products and where immediate ban is not feasible, a gradual phase out or stringent control of plastics present in tobacco products". Source: World Health Organisation, 'Pre-session Submissions: Input on the potential areas of intersessional work to inform the work of INC-3 (following the lists compiled by the co-facilitators of the two contact groups)' (August 2023). Available at: https://resolutions.unep.org/resolutions/uploads/who-partb-28082023-1.pdf

123.

"The German Bundesrat recently voted in favour of a ban on single-use e-cigarettes". Source: GERMANY - Bundesrat votes for ban on disposables, 10/3/2023. Available at: https://www.asthmafoundation.org.nz/assets/documents/Bundesrat-Germany-votes-to-ban-disposable-vapes.pdf
124.

"Belgium's decision to ban the sale of disposable ecigarettes (vapes) as of 1 January 2025 serves as the leading example for the EU to impose a complete ban by the end of 2024". Source: Belgium takes the lead in banning sales of vapes: EU must follow suit with a complete ban, EuRIC. Available at: https://euric.org/resource-hub/press-releases-statements/belgium-takes-the-lead-in-banning-sales-of-vapes-eu-must-follow-suit-with-a-complete-ban

125.

"DRAFT LAW AS AMENDED BY THE SENATE, to ban singleuse electronic vaping devices". Assemblée Nationale. (n.d.). Proposition de loi n°2162, modifiée par le Sénat, visant à interdire les dispositifs électroniques de vapotage à usage unique. 16e legislature. Available at:

https://www.assembleenationale.fr/dyn/16/textes/l16b2162_proposition-loi 126.

"the sale and supply of disposable vapes is being banned in England, Scotland and Wales because of their appeal to young people. Northern Ireland will also consider introducing this in future." Source: Disposable vape ban and what it means for young people, The Education Hub, Department of Education. Available at: https://educationhub.blog.gov.uk/2024/01/29/disposable-vape-ban-and-what-it-means-for-young-people/

"France is set to ban disposable e-cigarettes - known locally as "puffs" - because of the danger they pose to the environment and public health." Source: France sets out plan to ban disposable vapes, BBC. Available at: https://www.bbc.com/news/world-europe-66797972

128.

"From 1 January 2024, the importation of disposable vapes will be prohibited, subject to very limited exceptions. The ban will apply to disposable vapes irrespective of nicotine content or therapeutic claims"

"From 1 March 2024, the importation of all non-therapeutic vapes will be prohibited." New regulation of vapes starting January 2024, Media Releases, Department of Health and Aged Care, Australian Govenrment. Available at: https://www.tga.gov.au/news/media-releases/new-regulation-vapes-starting-january-2024#: ":text=From%201%20January%202024%2C%20the%20importation%20of%20disposable,vapes%20irrespective%20of%20nicotine%20content%20or%20therapeutic%20claims."

129.

"The new regulations include banning most disposable vapes, not allowing new vape shops within 300m (900ft) of any schools, and enforcing generic flavour descriptions." Source: New Zealand's youth vaping crisis clouds smoke-free future, BBC. Available at: https://www.bbc.com/news/world-asia-66448563

130.

"Disposable vapes are encased in plastic shells that never fully degrade."

"While cigarette pollution takes up to 10 years to degrade, disposable vapes are non-biodegradable and 'endanger ocean creatures that inadvertently consume the plastics." Source: Vape Waste: The environmental harms of disposable vapes, U.S. PIRG Education Fund. Available at: https://pirg.org/edfund/resources/vape-waste-the-environmental-harms-of-disposable-vapes/

133.

"Nicotine is a commercial chemical product listed in 40 CFR 261.35(e) and is an acute hazardous waste (EPA waste code P075) when disposed." Source: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. 20460, MAY 0 8 2015. Available at: https://rcrapublic.epa.gov/files/14850.pdf

134.

"the number of disposable single-use vapes thrown away has soared from 1.3 million to nearly 5 million per week." Number of disposable single-use vapes thrown away have in a year quadrupled to 5 million per week, Material Focus. Available at: <a href="https://www.materialfocus.org.uk/press-releases/disposable-single-use-vapes-thrown-away-have-quadrupled-to-5-million-per-week/#:":text=Number%20of%20disposable%20single-use%20vapes%20thrown%20away%20have,in%20schools%2F%20their%20place%20of%20work%20More%20items

"The potential yearly cost of collecting and recycling these vapes according to Material Focus research now stands at £200 million which currently isn't being paid for by vape producers, importers and retailers." Source: Number of disposable single-use vapes thrown away have in a year quadrupled to 5 million per week, Material Focus. Available at: <a href="https://www.materialfocus.org.uk/press-releases/disposable-single-use-vapes-thrown-away-baye-releases/disposable-use-vapes-thrown-away-baye-releases/disposable-use-vapes-thrown-away-baye-releases/disposable-use-vapes-thrown-away-baye-releases/disposable-use-vapes-thrown-away-baye-releases/disposable-use-vapes-thrown-away-baye-releases/disposable-use-vapes-thrown-away-baye-releases/disposable-use-vapes-thrown-away-baye-releases/disposable-use-vapes-thrown-away-baye-releases/disposable-use-vapes-thrown-away-baye-releases/disposable-use-vapes-thrown-away-baye-releases/disposable-use-vapes-thrown-away-ba

<u>releases/disposable-single-use-vapes-thrown-away-have-quadrupled-to-5-million-per-</u>

week/#:~:text=Number%20of%20disposable%20singleuse%20vapes%20thrown%20away%20have,in%20schools% 2F%20their%20place%20of%20work%20More%20items

"U.S. throws out 4.5 disposable vapes per second."
Gutterman, L.R., 2023. Vape Waste: The Environmental
Harms of Disposable Vapes. U.S. PIRG Education
Fund.Available at:

https://pirg.org/edfund/resources/vape-waste-the-environmental-harms-of-disposable-vapes/

137.

2021 global progress report on implementation of the Protocol to Eliminate Illicit Trade in Tobacco Products, Secretariat of the WHO Framework Convention on Tobacco Control, February 2022,

https://fctc.who.int/publications/i/item/9789240041806

Judith Soentgen, Disposing of counterfeit goods: unseen challenges, November 2012, WIPO Magazine, https://www.wipo.int/wipo_magazine/en/2012/06/article 0007.html

139.

Beutel MW, Harmon TC, Novotny TE, et al. A Review of Environmental Pollution from the Use and Disposal of Cigarettes and Electronic Cigarettes: Contaminants, Sources, and Impacts. Sustainability. 2021 Nov 24;13(23):12994. Available from:

http://dx.doi.org/10.3390/su132312994

140.

lbid

141.

Slaughter, E., Gersberg, R. M., Watanabe, K., Rudolph, J., Stransky, C., & Novotny, T. E. (2011). Toxicity of cigarette butts, and their chemical components, to marine and freshwater fish. Tobacco control, 20 Suppl 1(Suppl_1), i25-i29. Available at: https://doi.org/10.1136/tc.2010.040170 See also: Letter to parliament on policy options for reducing cigarette filters in litter, The National Government for the Netherlands, 19th April 2023, Available at:

https://www.rijksoverheid.nl/regering/bewindspersonen/vivianneheijnen/documenten/kamerstukken/2023/04/19/beleidsopties-ter-reductie-vansigarettenfilters-in-zwerfafval

142.

How Can People Living with NCDs Make Tobacco Companies Pay? STOP, May 26, 2021, https://ggtc.world/knowledge/novel-emerging-tobacco-products-and-product-regulation/how-can-people-living-with-ncds-make-tobacco-companies-pay

143.

Sy, D. and Huber, L., Global Plastics Treaty must align with Global Tobacco Control Treaty, Tobacco Control, November 2022, https://blogs.bmj.com/tc/2022/11/08/global-plastics-treaty-must-align-with-global-tobacco-control-treaty/
See also: Position Paper for the Secretariat of the second session of the Intergovernmental Negotiating Committee (INC-2), The Global Center for Good Governance in Tobacco Control (GGTC), January 2023, Available at: https://ggtc.world/library/position-paper-for-the-secretariat-of-inc-2

144.

World Health Organisation in Africa, 'Gambia Introduces New Three-Year Tobacco Taxation Policy' (News Report, March 2017). Available at: https://www.afro.who.int/pt/node/1581

NCD Alliance, '4 ways tobacco is devastating the environment' (News Report, June 2022). Available at:

https://ncdalliance.org/news-events/news/4-ways-tobaccois-devastating-the-environment

146.

"Adopt measures to strengthen the demand for secondary plastics and facilitate environmentally sound plastic scrap recycling, including by using public procurement to drive demand for plastic products containing higher recycled content, where feasible."

Source: Potential options for elements towards an international legally binding instrument, based on a comprehensive approach that addresses the full life cycle of plastics as called for by United Nations Environment Assembly resolution 5/14, United Nations Environment Programme, April 13, 2023. Available at:

https://wedocs.unep.org/bitstream/handle/20.500.11822/42 190/UNEP-PP-INC.2-4%20English.pdf?

sequence=13&isAllowed=y

147.

United Nations Environment Programme, 'UNEA Resolution 5/14 entitled "End plastic pollution: Towards an international legally binding instrument" (2022). Available at:

https://wedocs.unep.org/bitstream/handle/20.500.11822/39 812/OEWG PP 1 INF 1 UNEA%20resolution.pdf

148.

.United Nations Environment Programme, 'Revised draft text of the international legally binding instrument on plastic pollution, including in the marine environment' (December 2023). Available at:

https://wedocs.unep.org/bitstream/handle/20.500.11822/44 526/RevisedZeroDraftText.pdf

149.

"to urge Parties, in accordance with Article 5.3 of the WHO FCTC, to protect tobacco-related environmental policies from the commercial and vested interests of the tobacco industry and those working to further its interests" Source: WHO FCTC, 10TH Conference of the Parties Decision FCTC/COP10(14), "Implementation of Article 18 of the WHO FCTC" (Panama, 10 February 2024). Available at:

 $\frac{\text{https://storage.googleapis.com/who-fctc-cop10-source/Decisions/fctc-cop-10-14-en.pdf}}{\text{source/Decisions/fctc-cop-10-14-en.pdf}}$

150.

WHO FCTC, 10TH Conference of the Parties Decision FCTC/COP10(14), "Implementation of Article 18 of the WHO FCTC" (Panama, 10 February 2024). Available at: https://storage.googleapis.com/who-fctc-cop10-source/Decisions/fctc-cop-10-14-en.pdf

C. Mercedes et al., Toward a sustainable circular economy for cigarette butts, the most common waste worldwide on the coast, Science of The Total Environment, Volume 847, 2022, 157634, ISSN 0048-9697, Available at:

https://doi.org/10.1016/j.scitotenv.2022.157634

152.

lbid

153.

Mohajerani, A., Kurmus, H., Md Rahman T. et. al., Bitumen and Paraffin Wax Encapsulated Cigarette Butts: Physical Properties and Leachate Analysis;931–947 (2022); Available at: https://link.springer.com/article/10.1007/s42947-021-00063-9

154.

Rollinson,A.N., Oladejo,J.M., 'Patented blunderings', efficiency awareness, and self-sustainability claims in the pyrolysis energy from waste sector, Volume 141, February 2019, Pages 233–242. Available at:

https://www.sciencedirect.com/science/article/abs/pii/S 0921344918304117

155.

"Pyrolysis occurs when solid organic matter is heated, resulting in the release of gases, oils, and char, hence the word's etymological root of "loosening or change by fire". It is an old technology, formerly applied by heating up wood to produce substances such as methanol, acetone, and creosote, prior to petrochemical refining routes. When wood is slowly pyrolysed the char is called 'charcoal'; when coal is pyrolysed the char is called 'coke'; and with plastics there is little or no char produced at all."

Source: Rollinson,A.N., Low Impact Org, Why pyrolysis and 'plastic to fuels' is not a solution to the plastics problem,2018. Available at:

https://www.lowimpact.org/posts/pyrolysis-not-solution-plastics-problem.

156.

Mohajerani,A.;Kurmus,H.;Md Rahman T.;Smith J.;Woo S.S.;Jones D.;Dastjerdi M.G.;Pulitano J.;Nguyen B.T;Calderón,C.;Bitumen and Paraffin Wax Encapsulated Cigarette Butts: Physical Properties and Leachate Analysis;931–947 (2022); Available at:

https://link.springer.com/article/10.1007/s42947-021-00063-9

157.

Keenat, Ecomegot,Recycling and recovery of cigarette butts, Available at: https://ecomegot.com/recyclage-megots/; Italian PRO: https://erioncare.it/it/senza-filtri/ India: Banega Swasth India,This Enterprise Is Recycling India's Most littered Item, Cigarette Butts, Available at: https://swachhindia.ndtv.com/album-detail/this-enterprise-is-recycling-indias-most-littered-item-cigarette-butts-24514

158.

Mohajerani,A.;Kurmus,H.;Md Rahman T.;Smith J.;Woo S.S.;Jones D.;Dastjerdi M.G.;Pulitano J.;Nguyen B.T;Calderón,C.;Bitumen and Paraffin Wax Encapsulated Cigarette Butts: Physical Properties and Leachate Analysis;931-947 (2022); Available at: https://link.springer.com/article/10.1007/s42947-021-00063-9

159.

Yu,C.;Hou,H.;Liu,X., et. al., The Recovery of the Waste Cigarette Butts for N-Doped Carbon Anode in Lithium Ion Battery,Volume 5 – 2018, Available at:

https://www.frontiersin.org/articles/10.3389/fmats.2018.0006 3/full

160.

Conradi, M.; Sanchez-Moyano, E.; Toward a sustainable circular economy for cigarette butts, the most common waste worldwide on the coast, Sci Total Environ. 2022 Nov 15;847:157634. doi: 10.1016/j.scitotenv.2022.157634. Epub 2022 Jul 26.Available at:

https://pubmed.ncbi.nlm.nih.gov/35905959/

See also: Sy, D., Tobacco's Toxic Plastics: A Global Outlook, The Global Center for Good Governance in Tobacco Control, June 2022, https://ggtc.world/knowledge/sustainability-and-human-rights/tobaccos-toxic-plastics-a-global-outlook; citing: What a Waste 2.0: A Global Snapshot of Solid Waste Management to 2050. The World Bank Group. Available at: https://datatopics.worldbank.org/what-a-waste/trends in solid waste management.html

161

Global Tobacco Industry Interference Index 2021, 2021, available at: https://globaltobaccoindex.org/ See also: Global Tobacco Industry Interference Index 2023, 2023, available at: https://globaltobaccoindex.org/

162.

Publications, Circular Economy Explained, Ellen MacArthur Foundation,

https://ellenmacarthurfoundation.org/publications

163.

Breaking down high-risk plastic products, World Wide Fund for Nature (WWF), May 2023,

https://wwfint.awsassets.panda.org/downloads/wwf breakin g_down high risk plastic products.pdf

164

The McKinsey Center for Business and Environment (Center) is affiliated with McKinsey & Company, a known consultant of the tobacco industry.

Source: McKinsey, Tobacco Tactics, updated 27 August 2020, available at: https://tobaccotactics.org/article/mckinsey/

"Adopt measures to strengthen the demand for secondary plastics and facilitate environmentally sound plastic scrap recycling, including by using public procurement to drive demand for plastic products containing higher recycled content, where feasible."

Source: Potential options for elements towards an international legally binding instrument, based on a comprehensive approach that addresses the full life cycle of plastics as called for by United Nations Environment Assembly resolution 5/14, United Nations Environment Programme, April 13, 2023, Available at:

https://wedocs.unep.org/bitstream/handle/20.500.11822/42 190/UNEP-PP-INC.2-4%20English.pdf? sequence=13&isAllowed=y

166.

C. Mercedes et al., Toward a sustainable circular economy for cigarette butts, the most common waste worldwide on the coast, Science of The Total Environment, Volume 847, 2022, 157634, ISSN 0048-9697, Available at: https://doi.org/10.1016/j.scitotenv.2022.157634

Position Paper for the Secretariat of INC-2, Stop Tobacco Pollution Alliance, Jan 08, 2023, available at: https://ggtc.world/knowledge/sustainability-and-humanrights/position-paper-for-the-secretariat-of-inc-2
168.

United Nations Environment Programme, 'Revised draft text of the international legally binding instrument on plastic pollution, including in the marine environment' (December 2023). Available at:

https://wedocs.unep.org/bitstream/handle/20.500.11822/44526/RevisedZeroDraftText.pdf

169.

"plastic products that are avoidable because they can be easily substituted for more sustainable alternatives", "the development and use at scale of safe, environmentally sound, and sustainable non-plastic substitutes, including products, technologies and services, taking into account their potential for [waste reduction and reuse, as well as] environmental, economic, social[,cultural] and human health impacts[, based on life cycle assessments]", etc. Source: United Nations Environment Programme, 'Revised draft text of the international legally binding instrument on plastic pollution, including in the marine environment' (December 2023), Available at:

https://wedocs.unep.org/bitstream/handle/20.500.11822/44526/RevisedZeroDraftText.pdf

170.

"shall minimize their plastic pollution footprint through EPR schemes." Source: United Nations Environment Programme, 'Revised draft text of the international legally binding instrument on plastic pollution, including in the marine environment (December 2023), vailable at: https://wedocs.unep.org/bitstream/handle/20.500.11822/44526/RevisedZeroDraftText.pdf

171.

"Article 19 of the WHO FCTC calls for Parties to consider taking legislative action to deal with criminal and civil liability related to tobacco control." Source: World Health Organisation Framework Convention on Tobacco Control, Media Briefer, Implementation of Article 19 of the WHO FCTC: Liability (February 2024). Available at: https://fctc.who.int/publications/m/item/implementation-

of-article-19-of-the-who-fctcliability#:~:text=Article%2019%20of%20the%20WHO%20FC TC%20calls%20for%20Parties%20to,for%20assistance%20i

172.

n%20legal%20proceedings.

"Strikingly, on the soil surface, we observed no difference in mass loss between cellulose and plastic filters throughout the incubation. Using a first order kinetic model for mass loss of for used filters over the short period of our experiment, we estimated that conventional plastic filters take 7.5–14 years to disappear, in the compost and on the soil surface, respectively. In contrast, we estimated that cellulose filters take 2.3–13 years to disappear, in the compost and on the soil surface, respectively" Source: Joly, François-Xavier, and Mathieu Coulis. "Comparison of cellulose vs. plastic cigarette filter decomposition under distinct disposal environments." Waste management (New York, N.Y.) vol. 72 (2018): 349–353. doi:10.1016/j.wasman.2017.11.023

173.

lbid **174.**

Slaughter, E., Gersberg, R. M., Watanabe, K., Rudolph, J., Stransky, C., & Novotny, T. E. (2011). Toxicity of cigarette butts, and their chemical components, to marine and freshwater fish. Tobacco control, 20 Suppl 1(Suppl_1), i25-i29. Available at: https://doi.org/10.1136/tc.2010.040170

175.

Koroleva, Elizaveta et al. "Impact of cigarette butts on bacterial community structure in soil." Environmental science and pollution research international, 10.1007/s11356-021-13152-w. 26 Feb. 2021, doi:10.1007/s11356-021-13152-w

176.

Green, Dannielle Senga et al. "Smoked cigarette butt leachate impacts survival and behaviour of freshwater invertebrates." Environmental pollution (Barking, Essex: 1987) vol. 266,Pt 3 (2020): 115286. doi:10.1016/j.envpol.2020.115286 177.

"The OCB brand for instance, that sells filters for hand-rolling cigarettes, advertises an almost complete decomposition of cellulose filters in 28 days. However, these results, coming from a test made by an independent laboratory following the 301B biodegradability protocol of the Organization for Economic Cooperation and Development (OECD), have not been published, and do not compare with the decomposition of conventional plastic filters, making it impossible to evaluate the advantage of cellulose filters over the plastic ones." Source: Joly F.X., Coulis, M., Comparison of cellulose vs. plastic cigarette filter decomposition under distinct disposal environments, Waste Management, Volume 72, 2018, Pages 349–353, ISSN 0956-053X,

https://doi.org/10.1016/j.wasman.2017.11.023.

178

Joly F.X., Coulis, M., Comparison of cellulose vs. plastic cigarette filter decomposition under distinct disposal environments, Waste Management, Volume 72, 2018, Pages 349–353, ISSN 0956-053X,

https://doi.org/10.1016/j.wasman.2017.11.023.

179.

lbid

180.

"Moreover, the goal of the OECD protocol is to evaluate the biodegradability of the substance out of which the product is made without necessarily taking into account its previous use. Such potential decoupling of the test from realistic conditions could importantly limit the validity of the results. Indeed, once the cigarette is smoked, the filter gets charged with a large variety of compounds including tars, carcinogenic compounds and numerous metals which leads to an increased toxicity of filters for wildlife as well as microorganisms."

Source: Joly F.X., Coulis, M., Comparison of cellulose vs. plastic cigarette filter decomposition under distinct disposal environments, Waste Management, Volume 72, 2018, Pages 349–353, ISSN 0956-053X,

https://doi.org/10.1016/j.wasman.2017.11.023.

181

Moodie, C.; Hoek, J.; Hammond, D. et. al., Plain tobacco packaging: progress, challenges, learning and opportunities, 2022, Available at:

https://tobaccocontrol.bmj.com/content/31/2/263

Evans-Reeves, Karen et al. "The 'filter fraud' persists: the tobacco industry is still using filters to suggest lower health risks while destroying the environment." Tobacco control vol. 31,e1 (2022): e80-e82. doi:10.1136/tobaccocontrol-2020-056245

See also: Harris, Bradford. "The intractable cigarette 'filter problem'." Tobacco control vol. 20 Suppl 1, Suppl_1 (2011): i10-6. doi:10.1136/tc.2010.040113

See also: Tobacco industry: decades of deception and duplicity, World Health Organization, 2019,

https://applications.emro.who.int/docs/FS-TFI-198-2019-EN.pdf?ua=1

183.

Why cigarette butts threaten to stub out marine life, The Guardian, June 2015, available at:

https://www.theguardian.com/sustainablebusiness/2015/jun/09/why-cigarette-butts-threaten-tostub-out-marine-

life#:~:text=Although%20admitting%20it%20still%20had%2 <u>0%E2%80%9Ctechnical%20hurdles%20to%20overcome%E</u> 2%80%9D%2C%20natural%20filter%20company%20Green butts%20announced%20it%20had%20signed%20an%20ag reement%20with%20an%20undisclosed%20multinational% 20tobacco%20company%20in%20November%20last%20ye <u>ar</u>.

184.

Evans-Reeves, Karen et al. "The 'filter fraud' persists: the tobacco industry is still using filters to suggest lower health risks while destroying the environment." Tobacco control vol. 31,e1 (2022): e80-e82. doi:10.1136/tobaccocontrol-2020-056245

See also: Harris, Bradford. "The intractable cigarette 'filter problem'." Tobacco control vol. 20 Suppl 1, Suppl_1 (2011): i10-6. doi:10.1136/tc.2010.040113

See also: Tobacco industry: decades of deception and duplicity, World Health Organization, 2019,

https://applications.emro.who.int/docs/FS-TFI-198-2019-EN.pdf?ua=1

185.

Evans-Reeves, Karen et al. "The 'filter fraud' persists: the tobacco industry is still using filters to suggest lower health risks while destroying the environment." Tobacco control vol. 31,e1 (2022): e80-e82. doi:10.1136/tobaccocontrol-2020-056245

186.

lbid

187.

Statement of the Youth on The Intergenerational Responsibility of the Tobacco Industry, Aug 2022, Available at: https://ggtc.world/library/statement-of-the-youth-onthe-intergenerational-responsibility-of-the-tobaccoindustry

188.

Evans-Reeves K, Lauber K, Hiscock R. The 'filter fraud' persists: the tobacco industry is still using filters to suggest lower health risks while destroying the environment. Tobacco Control 2022;31:e80-e82. Available at: https://tobaccocontrol.bmj.com/content/31/e1/e80 189.

Those who feel guilty are more likely to dispose butts properly. Source: Smith EA, Novotny T.E., Whose butt is it? tobacco industry research about smokers and cigarette butt waste, Tobacco Control 2011;20:i2-i9,

https://tobaccocontrol.bmj.com/content/20/Suppl 1/i2

190

Guidelines for Implementation of Article 5.3 of the WHO Framework Convention on Tobacco Control. (2013). World Health Organization. Available at:

https://apps.who.int/iris/bitstream/handle/10665/80510/978 9241505185 eng.pdf?sequence=1

See also: Guidelines for Implementation of Article 13 of the WHO Framework Convention on Tobacco Control. (2013). World Health Organization. Available at:

https://apps.who.int/iris/bitstream/handle/10665/80510/978 9241505185 eng.pdf?sequence=1

191.

Sy, D. and Huber, L., Global Plastics Treaty must align with Global Tobacco Control Treaty, Tobacco Control, November 2022, https://blogs.bmj.com/tc/2022/11/08/global-plastics- treaty-must-align-with-global-tobacco-control-treaty/ See also: WHO Framework Convention on Tobacco Control Article 19: "For the purpose of tobacco control, the Parties shall consider taking legislative action or promoting their existing laws, where necessary, to deal with criminal and civil liability, including compensation where appropriate." Source: WHO Framework Convention on Tobacco Control. (2003). World Health Organization. Available at: https://fctc.who.int/who-fctc/overview.

192.

"Establish a certification scheme for plastic products. Task a technical review committee (comparable to the Technology and Economic Assessment Panel under the Montreal Protocol on Substances that Deplete the Ozone Layer) with assessing criteria for the sustainable production and use of plastics and the availability of safe alternatives and substitutes, set out the criteria in annexes to the instrument, and recommend possible adjustments to such annexes or amendments to the instrument (including new annexes). Develop clear mechanisms for funding, technical support and transfer of technology for the development of natural alternatives to plastics, in particular in small island developing States. Use economic instruments, such as fees, tariffs, taxes, subsidies, and tradable permit systems, to incentivize a reduction of plastic use and the adoption of sustainable alternatives." Source: Potential options for elements towards an international legally binding instrument, based on a comprehensive approach that addresses the full life cycle of plastics as called for by United Nations Environment Assembly resolution 5/14, United Nations Environment Programme, April 13, 2023, Available at: https://wedocs.unep.org/bitstream/handle/20.500.11822/42 190/UNEP-PP-INC.2-4%20English.pdf? sequence=13&isAllowed=y

"The governing body" shall develop guidance on the regulation of problematic and avoidable plastics based on scientific criteria and take into account the availability, accessibility and affordability of sustainable alternatives.", "Parties must promote the development of safe and costeffective alternatives", "take effective measures to identify goods and products that contain intentionally added microplastics, to establish the risks of their ingestion and their pollution of the environment and adverse effects on the human body, followed by a phased reduction in their use when the risks have not been eliminated and safer and more affordable alternatives are available," Source: United Nations Environment Programme, 'Revised draft text of the international legally binding instrument on plastic pollution, including in the marine environment' (December 2023), available at:

https://wedocs.unep.org/bitstream/handle/20.500.11822/44526/RevisedZeroDraftText.pdf

194

195.

WHO FCTC, 10TH Conference of the Parties Decision FCTC/COP10(14), "Implementation of Article 18 of the WHO FCTC" (Panama, 10 February 2024), available at: https://storage.googleapis.com/who-fctc-cop10-source/Decisions/fctc-cop-10-14-en.pdf

Deborah Sy and Lilia Olefir, "COP 10: Action needed to prevent tobacco industry interference in environmental solutions' (Blogpost, 2024), Tobacco Control. Available at: https://blogs.bmj.com/tc/2024/02/05/cop-10-action-needed-to-prevent-tobacco-industry-interference-in-environmental-solutions/

196.

WHO FCTC, 10th Conference of Parties Decision FCTC/COP10(13), "Implementation of Article 19 of the WHO FCTC: Liability" (Panama, 10 February 2024), available at: https://storage.googleapis.com/who-fctc-cop10-source/Decisions/fctc-cop-10-13-en.pdf

197.

"ensure that the work undertaken in these international fora, including in relation to the environment and regulation of business conduct, supports tobacco control and does not undermine it;" Source: Ibid

198.

Goodchild, Mark et al. "Global economic cost of smoking-attributable diseases." Tobacco control vol. 27,1 (2018): 58-64. doi:10.1136/tobaccocontrol-2016-053305

199.

How Tobacco Industry Interference Hinders the UN Sustainable Development Goals, STOP, September 2020, https://exposetobacco.org/wp-content/uploads/Tl-hinders-SDGs.pdf

See also: An Inherent Contradiction: The Tobacco Industry's Environmental, Social & Governance (ESG)
Activities, The Global Center for Good Governance in Tobacco Control (GGTC), October 2022, Available at: https://ggtc.world/knowledge/sustainability-and-human-rights/an-inherent-contradiction-the-tobacco-industrys-environment-social-governance-activities

200.

World Health Organization, 'Guidelines for implementation Article 5.3'. Available at:

https://fctc.who.int/publications/m/item/guidelines-for-implementation-of-article-5.3

201.

Sy, D., Tobacco Industry Interference and Tobacco Taxation, Global Center for Good Governance in Tobacco Control and Research Unit on the Economics of Excisable Products, July 2020, available at: https://portal-uat.who.int/fctcapps/sites/default/files/kh-media/KH_lpager-12_Tobacco-Industry-Interference-Taxation.pdf

202.

Article 5.3 Guidelines for Implementation: "Recommendation 5 Require that information provided by the tobacco industry be transparent and accurate. To take effective measures preventing interference of the tobacco industry with public health policies, Parties need information about its activities and practices, thus ensuring that the industry operates in a transparent manner." Source: Guidelines for Implementation of Article 5.3 of the WHO Framework Convention on Tobacco Control. (2013). World Health Organization. Available at: https://fctc.who.int/publications/m/item/guidelines-for-implementation-of-article-5.3

203.

Article 5.3 Guidelines for Implementation Recommendation 5: "Article 12 of the Convention requires Parties to promote public access to such information in accordance with national law." Source: Guidelines for Implementation of Article 5.3 of the WHO Framework Convention on Tobacco Control. (2013). World Health Organization. Available at: https://fctc.who.int/publications/m/item/guidelines-for-implementation-of-article-5.3

204.

"Article 5.3 Guidelines for Implementation Recommendations: "5.1 Parties should introduce and apply measures to ensure that all operations and activities of the tobacco industry are transparent. 5.2 Parties should require the tobacco industry and those working to further its interests to periodically submit information on tobacco production, manufacture, market share, marketing expenditures, revenues and any other activity, including lobbying, philanthropy, political contributions and all other activities not prohibited or not yet prohibited under Article 13 of the Convention. 5.3 Parties should require rules for the disclosure or registration of the tobacco industry entities, affiliated organizations and individuals acting on their behalf, including lobbyists. 5.4 Parties should impose mandatory penalties on the tobacco industry in case of the provision of false or misleading information in accordance with national law. 5.5 Parties should adopt and implement effective legislative, executive, administrative and other measures to ensure public access, in accordance with Article 12(c) of the Convention, to a wide range of information on tobacco industry activities as relevant to the objectives of the Convention, such as in a public repository." Source: Guidelines for Implementation of Article 5.3 of the WHO Framework Convention on Tobacco Control. (2013). World Health Organization. Available at: https://fctc.who.int/publications/m/item/guidelines-forimplementation-of-article-5.3

205.

"For those Parties that are not in a position to undertake a comprehensive ban owing to their constitutions or constitutional principles."

Source: Guidelines for implementation of Article 13 of the WHO Framework Convention on Tobacco Control. (2013). World Health Organization. Available at:

https://www.who.int/europe/health-

topics/tobacco/banning_tobacco-advertising_sponsorship-and-promotion#tab=tab_1

Article 13 Guidelines for Implementation: "Publicity given to "socially responsible" business practices of the tobacco industry should be banned, as these constitute advertising and promotion." Source: Guidelines for implementation of Article 13 of the WHO Framework Convention on Tobacco Control. (2013). World Health Organization. Available at: https://fctc.who.int/whofctc/overview/treaty-instruments/tobacco-advertising-promotion-and-sponsorship

207.

Afghanistan, Albania, Antigua and Barbuda, Azerbaijan, Bahrain, Benin, Brazil, Chad, Colombia, Congo, Democratic Republic of the Congo, Djibouti, Eritrea, Gambia, Ghana, Guinea, Guyana, Iran (Islamic Republic of), Kenya, Kiribati, Kuwait, Libya, Madagascar, Maldives, Mauritius, Mongolia, Nepal, Niger, Nigeria, Niue, Panama, Qatar, Republic of Moldova, Russian Federation, Saudi Arabia, Senegal, Seychelles, Slovenia, Spain, Suriname, Togo, Turkey, Tuvalu, Uganda, United Arab Emirates, Uruguay, Vanuatu, and Yemen, and more.

Source: WHO Report on the Global Tobacco Epidemic, 2019. Geneva: World Health Organization; 2019. Licence: CC BY-NC-SA 3.0 IGO. Available at:

https://www.who.int/publications/i/item/9789241516204

208.

Guidelines for implementation of Article 5.3 of the WHO Framework Convention on Tobacco Control. (2013). World Health Organization. Available at:

https://fctc.who.int/publications/m/item/guidelines-for-implementation-of-article-5.3.

209.

210.

An Inherent Contradiction: The Tobacco Industry's Environmental, Social & Governance (ESG) Activities, The Global Center for Good Governance in Tobacco Control (GGTC), October 2022, Available at: https://ggtc.world/knowledge/sustainability-and-human-rights/an-inherent-contradiction-the-tobacco-industrys-environment-social-governance-activities

Jon Miltimore, Tobacco kills millions, so why are tobacco companies crushing Tesla in ESG?. Washington Examiner, June 22, 2023, available at:

https://www.washingtonexaminer.com/restoringamerica/equality-not-elitism/tobacco-kills-millions-sowhy-are-tobacco-companies-crushing-tesla-in-esg See also: Sy, Deborah. "Tobacco industry's 'wellness' tactic: Ethical dilemma and solutions." Tobacco Prevention & Cessation, vol. 9, no. April, 2023, 11. Doi:10.18332/tpc/159119

A toxic, plastic problem: E-cigarette waste and the environment, Truth Initiative, March 8, 2021, available at: https://truthinitiative.org/research-resources/harmful-effects-tobacco/toxic-plastic-problem-e-cigarette-waste-and-environment

212.

Bogotá no es un cenicero (Columbia), Available at: https://www.bogotanoesuncenicero.com/

213.

Dale Rumbo a tus colillas, Sustainability, Philip Morris International [website], available at: https://www.pmi.com/markets/costa-rica/es/sostenibilidad/dale-rumbo-a-tus-colillas

214.

Erion Care, 'Erion Care is born, the first Consortium in Italy for the treatment of tobacco product waste' (2022) Available at: https://erion.it/it/news/nasce-erion-care-il-primo-consorzio-in-italia-per-il-trattamento-dei-rifiuti-di-prodotti-del-tabacco/

215.

Miroslav Jurkovič, 'How to solve the problem of freely thrown waste? Cigarette butts are an example' (News article 2023), Available at: https://www.odpady-

<u>portal.sk/Dokument/107212/cigaretove-ohorkyvolne-pohodeny-odpad.aspx</u>

216.

Global Center for Good Governance in Tobacco Control, 'Tobacco Industry's Corporate Social Responsibility Ban: Global Status as of October 2023' (2023) Available at: https://ggtc.world/library/tobacco-industrys-corporate-social-responsibility-ban-global-status-as-of-october-2023; citing Tobacco advertising, promotion and sponsorship: depiction of tobacco in entertainment media, Appendix, Conference of the Parties to the WHO Framework Convention on Tobacco Control, FCTC/COP/10/8, June 9, 2023. Available at: https://storage.googleapis.com/who-fctc-cop10-source/Main%20documents/fctc-cop10-8-en.pdf.

217.

Global Tobacco Industry Interference Index 2021, 2021, available at: https://globaltobaccoindex.org/
See also: [Forthcoming publication] Global Tobacco Industry Interference Index 2023, 2023, available at: https://globaltobaccoindex.org/

218.

Holly Mead, It's the tobacco funds that should come with a health warning, The Times, August 5, 2023, available at: https://www.thetimes.co.uk/article/is-esg-investing-good-idea-kf7lvcz6p;

See also: Jon Miltimore, Tobacco kills millions, so why are tobacco companies crushing Tesla in ESG?. Washington Examiner, June 22, 2023, available at:

https://www.washingtonexaminer.com/restoring-america/equality-not-elitism/tobacco-kills-millions-so-why-are-tobacco-companies-crushing-tesla-in-esg; See also: Sy, Deborah. "Tobacco industry's 'wellness' tactic: Ethical dilemma and solutions." Tobacco Prevention & Cessation, vol. 9, no. April, 2023, 11. doi:10.18332/tpc/159119.

219.

220.

Sy, D., Tobacco's Toxic Plastics: A Global Outlook, The Global Center for Good Governance in Tobacco Control, June 2022, https://ggtc.world/knowledge/sustainability-and-human-rights/tobaccos-toxic-plastics-a-global-outlook

Deborah Sy and Lilia Olefir, "COP 10: Action needed to prevent tobacco industry interference in environmental solutions' (Blogpost, 2024), Tobacco Control. Available at: https://blogs.bmj.com/tc/2024/02/05/cop-10-action-needed-to-prevent-tobacco-industry-interference-in-environmental-solutions/

221.

Universal Declaration of Human Rights, United Nations, 2015, available at: https://www.un.org/en/about-us/universal-declaration-of-human-rights

See also: The Danish Institute for Human Rights. (2017). Human rights assessment in Philip Morris International. Available at: https://www.humanrights.dk/news/human-rights-assessment-philip-morris-international.

222

"Cooperation between the United Nations and the business sector is principled-based. These principles are included in the United Nations Global Compact and the United Nations Guiding Principles on Business and Human Rights. The United Nations Global Compact provides an overall value framework for cooperation with the business sector. The principles of the Global Compact on human rights, labour, the environment and anticorruption are based on intergovernmental agreements and are specifically relevant for business. Similarly, the United Nations Guiding Principles on Business and Human Rights, which have been unanimously endorsed by the Human Rights Council, serve as the baseline reference point for expected business conduct, and as a benchmark for responsible business implementation." Source: United Nations. (2015). Guidelines on a principle-based approach to the Cooperation between the United Nations and the business sector. Available at:

https://www.unglobalcompact.org/library/3431 223.

ECOSOC Resolution calls for the UN agencies to prevent interference from the tobacco industry, Newsroom, WHO Framework Convention on Tobacco Control, July 2017, available at:

https://fctc.who.int/newsroom/news/item/10-07-2017-ecosoc-resolution-calls-for-the-un-agencies-to-prevent-interference-from-the-tobacco-industry

224.

Model Policy for Agencies of the United Nations System on Preventing Tobacco Industry Interference, WHO Framework Convention on Tobacco Control, February 2021, available at: https://fctc.who.int/publications/m/item/model-policy-for-agencies-of-the-united-nations-system-on-preventing-tobacco-industry-interference-(full-text)

225. "The United Nations Sustainable Development Group (UNSDG) was tasked to develop a common approach to partnerships with the private sector, to facilitate contributions in support of the SDGs An inter-UN agenciy group developed a Common Approach to Due Diligence for Private Sector Partnerships (Common Approach) which reflects current practices for private sector engagement, and affirms common principles, citing Repositioning the UN development system to deliver on the 2030 Agenda - Ensuring a Better Future for All (A/72/124-E/2018/3) 5 Repositioning the United Nations development system to deliver on the 2030 Agenda: our promise for dignity, prosperity and peace on a healthy planet [A/72/684]."

Source: Partnerships Driving Inclusive Implementation of the SDGs Concept Note, United Nations Sustainable Development Group, ECOSOC Partnership Forum, 2019, available at: https://sustainabledevelopment.un.org/content/documents/ 21335Final Concept Note 2019 ECOSOC Partnership Foru m.pdf See also: "Furthermore, the Secretary-General has recently initiated an ambitious reform to reposition the United Nations Development System (UNDS) with the aim of realigning its leadership, capacities and accountability mechanisms including in the area of partnerships to meet the demands in delivering on the 2030 Agenda. As per the two Reports of the Secretary-General in June 20174 and December 20175 on the UNDS reform, the United Nations Sustainable Development Group (UNSDG) is currently leading a system-wide effort on this regard. In his December 2017 report, the Secretary-General further committed to six partnership related work streams: i. UNSDG to agree on a system-wide approach to partnership ii. Strengthen systemwide integrity, due diligence and risk management, including the 10 Global Compact principles on for private sector engagement iii. Improved global level governance from the Global Compact iv. Reinvigoration of UNOP as the global gateway for partnership v. A system-wide compact with IFIs vi. Efforts to invigorate UN support for South-South cooperation." Source: Repositioning the United Nations development system to deliver on the 2030 Agenda: ensuring a better future for all, United Nations General Assembly Economic and Social Council, 2017. Available at: https://documents-ddsny.un.org/doc/UNDOC/GEN/N17/210/35/PDF/N1721035.pdf? OpenElement.

226.

"For the purposes of this statement: – tobacco industry means any entity involved in the manufacture, sale or distribution of tobacco and related products, and any affiliate of such entity; and – arms industry means any entity involved in the manufacture, sale or distribution of arms, and any affiliate of such entity. This disclosure statement needs to be provided by any nongovernmental organization, private sector entity, philanthropic foundation and academic institution prior to engaging with Unitaid." Source: Unitaid. (n.d.). Annex 8: Declaration regarding tobacco and arms industry. Available at: https://unitaid.org/assets/Annex-8.-Tobacco-and-Arms-Industries.docx

227.

Handbook on the Implementation of WHO FCTC Article 5.3, The Global Center for Good Governance in Tobacco Control (GGTC), November 2021, Available at: https://files.ggtc.world/uploads/2021-12-06/14-31-06-829409/Article%205.3%20Handbook%20GGTC%20Nov%202021.pdf

228

"Doggett Amendment" Omnibus Appropriations Act Public Law 113-76, Tobacco Control Laws, Available at: https://assets.tobaccocontrollaws.org/uploads/legislation /United%20States/United-States-Doggett-Amendment-<u>national.pdf</u>

229.

Executive Order 13193 - Federal Leadership on Global Tobacco Control and Prevention, Campaign for Tobacco-Free Kids, January, 18,2001, Available at: https://www.tobaccocontrollaws.org/laws/eo-13193united-states

230.

Alebshehy, R.; Silver, K.; Chamberlain, P.; A "willingness to be orchestrated": Why are UK diplomats working with tobacco companies?, Front. Public Health, 17 March 2023, Sec. Public Health Policy Volume 11 - 2023, Available at: https://doi.org/10.3389/fpubh.2023.977713

231.

Key human rights considerations for the negotiations to develop an international legally binding instrument on plastic pollution, OHCHR-UNEP Environmental Rights Bulletin, Available at: https://www.ohchr.org/sites/default/files/documents/issu

es/climatechange/2022-12-01/OHCHR-inputs-INC1.pdf

Position Paper for the Secretariat of the second session of the Intergovernmental Negotiating Committee (INC-2), The Global Center for Good Governance in Tobacco Control (GGTC), January 2023, Available at:

https://ggtc.world/library/position-paper-for-thesecretariat-of-inc-2

233.

Deborah Sy and Lilia Olefir, "COP 10: Action needed to prevent tobacco industry interference in environmental solutions' (Blogpost, 2024), Tobacco Control. Available at: https://blogs.bmj.com/tc/2024/02/05/cop-10-actionneeded-to-prevent-tobacco-industry-interference-inenvironmental-solutions/