

Ministries of environment can take important first steps to advance tobacco control:

- Advance laws, policies, regulations and other measures to combat the environmental harms of tobacco, for example, extended producer responsibility regulations that make tobacco producers accountable for post-consumption waste and elimination of single-use filters.
- Ensure the ministry's participation in multisectoral planning and coordination for tobacco control, including the prevention of industry interference in policymaking.<sup>31</sup>
- Strengthen independent data collection on the impacts of growing tobacco and raise awareness on the harms of the tobacco product 'life cycle'.
- Require transparent and accurate information from the tobacco industry.
- Campaign for and support the elimination of tobacco farming subsidies and other investment incentives for the tobacco sector, exploring instead how to advance sustainable food systems and other sustainable alternatives.
- Campaign for and support economically viable alternatives for tobacco workers, growers, and as the case may be, individual sellers as called for by WHO FCTC Articles 17 and 18.

In line with the Convention Secretariat's [Global Strategy to Accelerate Tobacco Control 2025](#) and [UNDP's Strategic Plan 2022-2025](#) and [HIV, Health and Development Strategy \(2022-2025\)](#), these briefs emphasise the importance of a coordinated, multisectoral whole-of-government approach to tobacco control, empowering Parties to work across sectors to achieve policy coherence.

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# Tobacco Control

## What Ministries of Environment Need to Know

### Key Points

- 1 The entire 'life cycle' of tobacco products is wrought with environmental damage.
- 2 Tobacco threatens access to clean water and threatens the sustainability of oceans, seas and marine resources.
- 3 Tobacco control protects the environment and economy.
- 4 Ministries of environment can take important first steps to advance tobacco control and accelerate progress towards the Sustainable Development Goals (SDGs).

Sustainable Development Goal 3 (SDG 3) aims 'to ensure healthy lives and promote well-being for all at all ages'.<sup>1</sup> One of the means of achieving this goal is to strengthen implementation of the World Health Organization Framework Convention on Tobacco Control (WHO FCTC) in all countries, as appropriate (Target 3.a).

The WHO FCTC is a legally binding treaty that reaffirms the right to health.<sup>2</sup> It was developed in response to the tobacco epidemic and currently has 183 Parties, covering more than 90 percent of the global population.<sup>3</sup>



1. The entire ‘life cycle’ of tobacco products is wrought with environmental damage.

**THE DEADLY CONSEQUENCES OF TOBACCO AND WHY GOVERNMENT SECTORS MUST WORK TOGETHER TO IMPLEMENT THE WHO FCTC**

The social, economic and environmental impacts of tobacco consumption and production are staggering. Without adequate investment in tobacco control, it is estimated that up to 1 billion people could die from tobacco-related diseases during this century alone.<sup>4</sup> Smoking-attributable diseases cost the global economy over a trillion US dollars annually, due to medical expenses and lost productivity.<sup>5</sup> The environmental impacts, due to plastic pollution, deforestation and soil degradation from tobacco growing, as well as water and soil pollution from pesticide use and cigarette littering, are of growing concern. Levels of tobacco consumption and production in society are determined largely by policies beyond the health sector. This means that the development consequences of tobacco are largely avoidable through better policy coherence and common strategies that deliver shared gains for all sectors involved, accelerating progress against multiple SDGs.

From cultivation to post-consumption waste, tobacco causes environmental damage across the life cycle. In each step of the process, further damage to the environment is imposed. Low- and middle-income countries (LMICs) bear the brunt of this environmental impact.

**Tobacco farming causes up to 5 percent of deforestation in developing tobacco-growing countries.**<sup>6</sup> Consequently, approximately 200,000 hectares of land, equivalent to around half of the size of Cabo Verde, is cleared for tobacco agriculture and curing yearly.<sup>7</sup> Growing and curing tobacco also increases greenhouse and toxic gas emissions (e.g., carbon dioxide and methane) and contributes to global warming, land degradation and irreversible biodiversity loss.<sup>8</sup>

**Tobacco adds nearly 84 million tons (Mt) of carbon dioxide to the atmosphere each year.** Of this, 44.7 Mt are attributed to curing, 20.8 Mt to cultivation and 15.7 Mt to manufacturing.<sup>9</sup> This is equivalent to the greenhouse gas emissions of more than 15.6 million gasoline-powered vehicles driven for one year.<sup>10</sup>

**Tobacco smoke is a major source of indoor air pollution.** Secondhand smoke kills 1.2 million people each year.<sup>11</sup> Children and women, including pregnant women, are the main victims of secondhand smoke, and suffer from the significant health consequences caused by tobacco smoke.<sup>12</sup> Additionally, they often face difficulties in negotiating smoke-free spaces in line with their right to health.<sup>13, 14</sup> Those exposed to the toxins and fine particulate matter found in cigarette smoke are at higher risk of mortality from exposure to other sources of air pollution and vice versa.<sup>15, 16</sup>

**WHO FCTC ARTICLE 18**

Under Article 18 of the WHO FCTC, Parties are mandated to have “due regard to the protection of the environment and the health of persons in relation to the environment in respect of tobacco cultivation and manufacture within their respective territories.” Following the policy options and recommendations on Articles 17 and 18, to protect the environment from the negative impacts of tobacco growing, Parties can implement initiatives to monitor deforestation and soil and water contamination from pesticides, implement educational programmes on the negative environmental impacts of tobacco production, and implement measures to prevent or recover areas damaged by tobacco production in line with national laws on environmental protection. Article 18 also addresses the health impacts and social issues of tobacco production in addition to the environmental harms. As such, Parties should include a baseline analysis of the prevalence of tobacco production-attributable health consequences such as green tobacco sickness to monitor impact.<sup>17</sup>



2. Tobacco threatens access to safe clean water and threatens the sustainability of oceans, seas and marine resources.

**Tobacco causes significant pollution to water sources, threatening access to clean water as well as the sustainability of oceans, seas and marine resources.** The tobacco industry produced 55 Mt of wastewater in 2014.<sup>18</sup> The chemicals in fertilizers used to promote growth of tobacco crops pollute nearby waterways, with yet unquantified implications for the quality of drinking water,<sup>19</sup> and cause widespread environmental erosion.<sup>20</sup>

**Cigarette butts are the most littered waste item worldwide (4.5 trillion annually).**<sup>21, 22</sup> Cigarette butts release microplastics, heavy metals and other chemicals when improperly discarded, polluting the world’s oceans and coasts and disturbing the ecosystem.<sup>23</sup> The hazardous chemicals from cigarette butts can cause severe harm when ingested, threatening not only aquatic life and marine life, including marine and freshwater fish,<sup>24</sup> birds, plants, reptiles and mammals, but also human health when these contaminated species enter the food chain.<sup>25</sup>

**Tobacco also depletes vast amounts of precious water.** One cigarette requires about 3.7 liters of water over its life cycle.<sup>26</sup> Each year, 22 billion tonnes of water are used for the global production of tobacco, approximately 3.5 times the water volume of Lake Chad or equivalent to around 15 million Olympic-sized swimming pools.<sup>27</sup> Tobacco production requires more water than other crops — to eight times the water tomatoes and potatoes need. For every kilogram of tobacco not grown and consumed, the potable water needs of a human for a whole year could be realized instead.<sup>28</sup>

**UN ENVIRONMENT PROGRAMME (UNEP) AND WHO FCTC CLEAN SEAS CAMPAIGN**

Recognizing the impact full implementation the WHO FCTC can have on reducing toxic waste in oceans and seas, UNEP and the Secretariat of the WHO FCTC have partnered together to raise awareness and drive action. The Clean Seas Campaign raises awareness on the environmental and health impacts caused by tobacco and microplastics pollution.<sup>29</sup>

3. Tobacco control protects the environment and the economy.

**Tobacco control measures encourage countries and individual farmers to shift from tobacco production toward activities that are friendlier to people and planet; call on responsible use and disposal that does not harm others or the environment; protect people from the health impacts of secondhand smoke; and support tobacco users to quit and non-users to never start, reducing the overall environmental toll of tobacco.** By implementing the WHO FCTC in full to address the overarching need to reduce tobacco use, countries will in turn lessen tobacco-related waste and tobacco-attributable environmental damage.

**ESTIMATES OF TOBACCO PRODUCT WASTE (TPW)<sup>30</sup>**

Country	Cost of TPW	Proportion of waste from tobacco products
Jordan	US\$57 million	42%
China	US\$2 billion	28%
Germany	US\$235 million	26%
South Africa	US\$117 million	24%
Brazil	US\$203 million	15%
India	US\$766 million	9.60%

Policies and programmes that hold the tobacco industry responsible for its environmental impact, for example, through Extended Producer Responsibility and Product Stewardship programmes, can enhance achievement of environmental SDGs while shifting the costs of clean up from governments and taxpayers to the industry.

4. Ministries of environment can take important first steps to advance tobacco control and accelerate progress towards the SDGs.

Ministries of environment have a critical role to play, working with ministries of health, trade and industry, labour, agriculture, finance and others to protect the environment from the negative impacts of tobacco.