

Bridging the (dirty) gap

Hong Kong is the first city in Asia to force ships, by law, to use less polluting fuel while at berth. Anna Cummins explores if the new legislation goes far enough, and why it's taken a decade to happen. Additional reporting by Rhoda Kwan

hipping is essential to the world we've created. There are boatloads of incredible stats on the topic - 90 percent of the world's trade is carried by sea, meaning nine in every 10 items we buy are buoyed to us on OGVs (ocean going vessels). But on open waters cargo ships use highly polluting 'bunker fuel'. This dark, viscous fuel is comprised of around three percent sulphur (compared to ultra-low sulphur diesel which is under 0.005 percent). Consequently, one large container ship at sea emits the same amount of sulphur oxide as 50 million diesel-burning cars annually, as well as plenty of particulate matter and nitrous oxides. Unsurprisingly, given that Hong Kong is the fourth busiest container port in the world (handling over 22 million units of cargo each year), ships have become a major cause of air pollution in Hong Kong.

But there's only one port in the whole of Asia that has legislated to reduce the carcinogenic emissions produced by ships at berth, and that's our very own fragrant

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harbour. On July 1 it became law for all large ships to use a more expensive but less polluting fuel at berth ('parked') in Hong Kong waters. This alternative fuel can only be a maximum of 0.5 percent

THE BURNING ISSUE

sulphur and any ship owner caught

using the heavy sulphur fuel at berth

now risks a jail term and a \$200,000

fine. This will reduce the respirable

suspended particulates from OGVs

by more than 60 percent, and will

have a measurable impact on the

It's been a long time coming,

however. Hong Kong may be the

first city in Asia to legislate on the

issue, but many other ports in the

US and Europe already have ECA

ships to switch to fuel that is 0.1

(Emission Control Areas) that require

percent sulphur or less when in port

or nearby waters. The Hong Kong

supportive, yet far from speedy, in

pushing through these new laws.

In fact, the impetus actually came

voluntarily from the industry itself.

lines signed the Fair Winds Charter,

17 of the world's major shipping

government has been generally

in Kwai Chung district.

health of people living near the port

which came into effect in 2011, agreeing to use cleaner fuel when at port.

"We're surrounded by Chinese waters, so it's difficult to come up with a solution that doesn't involve legislation from China," points out Arthur Bowring, managing director of the Hong Kong Shipowners Association, which represents the industry. "We've been working closely with groups like Civic Exchange and Clean Air Network for a long time, but it was hard to get the third side of the triangle - the HK government - involved. So we said we'd do it on a voluntary basis at first [in 2011]. Yes, it's strange for the industry to do that but, in this case, we decided it was time to do something. The government was apparently concerned that the port would become uncompetitive compared to surrounding ports like Shenzhen, and a lot of departments required a lot of work, but we're extremely pleased this has finally come into force. It's levelled the playing field [between shipping companies who had signed the 2011 Fair Winds Charter and those who hadn't]. We've already seen massive reductions in sulphur emissions in the area around the port. As someone who used to run in Hong

Kong and had to give it up for health reasons, I can say it's an issue that affects all of us."

"We welcome the new regulations," says Silvia Ding, nanaging director of Maersk Line in South China, one of the signatories to the Fair Winds Charter, which has has been using 0.1 percent sulphur fuel voluntarily since 2011.

Christine Loh has been under secretary for the environment in Hong Kong for the last three years, and was a member of LegCo before that. She also founded the Society for the Protection of the Harbour, as well as Civic Exchange, a prominent city think tank. "The government committed to legislation in January 2013 [in its policy address] and then it took a while to formally consult the industry, draft the legislation and get it passed," she explains of the time frame, pointing out that an emissions inventory had to be compiled before action was taken

"Hong Kong is the first jurisdiction outside North America and the EU to mandate fuel switching at berth, so things have happened rather quickly if we look at the overall context," adds Loh. "It is extremely difficult to get any piece of legislation drafted, scrutinised and passed by LegCo in less than three years!" "It could have happened years

ago!" exclaims James Middleton, chairman of local NGO Clear the Air. "Ships form over 50 percent of HK's emissions - the sulphur dioxides, nitrogen dioxides and the particulate matters. They are the ones that kill you, the suspended particulates that hang in the air. Your nose hairs can't stop them and people around Kwai Chung are breathing that in every day. [The new law] is a step in the right direction of course, but they could have talked to all the fuel companies a decade ago. The government and tycoons are too closely related ... That's one reason why we're in such a bad situation. All the ships commuting from Europe to Shanghai and vice versa, all these ships are going through our waters and why are we making them switch to 0.5 percent [sulphur fuel], not 0.1 percent? They already have it in their tanks ready for when they enter US waters!



We put this to Bowring. "We couldn't [legislate] 0.1 percent sulphur fuel here immediately because you can't find it in most Asian ports. Yet," he tells us, "the big global trading ships that also go to the US and Europe will have 0.1 percent sulphur fuel on board and so they may well use that in Hong Kong and not bother carrying three different grades of fuel. But it's their decision. We have told the government that we support a move towards 0.1 percent or less when the fuel becomes more available. They have decided on 0.5 percent because of competition." Ding confirms that Maersk are already using 0.1 percent fuel in Hong Kong. Simon Ng is chief research officer at

think tank Civic Exchange and has been closely involved in the research forming the basis of the new law.



"Everyone is very excited to talk about the new regulations," he reveals. "10 years ago the government wasn't doing anything on ship emissions. Even the public wouldn't have known what bunker fuel was. We didn't know how to plan, or whether to assume the port would continue to be a big part of HK's economy. Our prelim research showed that Europe and the US were targeting the shipping industry and that's when we started wondering why we weren't doing anything about it here. Ship emissions impact the air quality a lot."

The government has launched a financial incentive scheme to help shipping companies recover the cost of buying the cleaner fuel, so the fee shouldn't be passed on to the consumer, for now. But there are naturally concerns over how our port, which was once the busiest in the world, can stay competitive in the booming Pearl River Delta region. "Hong Kong is working with Shenzhen and Guangzhou so we don't have to deal with the competitiveness," says Ng. "So far it's very positive, Shenzhen is willing to subsidise the shipping trade, to clean up. Things are moving a lot quicker

now." Better late than never.

Find out more about the new shipping regulation at epd.gov.hk



Do you have an opinion? Get in touch with us at letters@timeout.com.hk



90%

of the world's trade is transported by the global shipping industry



7 million

The number of premature deaths linked to air pollution annually around the world



major freight lines signed the Fair Winds Charter to commit to switching to cleaner fuel while berthing in Hong Kong in 2011

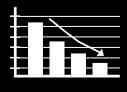


375,000 sea-going vessels and river-trade

vessels arrive in Hong Kong each year



This many ships in HK have voluntarily been using low sulphur fuel since the charter was introduced



The switch to low sulphur fuel at berth should cut the city's annual sulphur emissions by this much, and reduce particulates by six percent