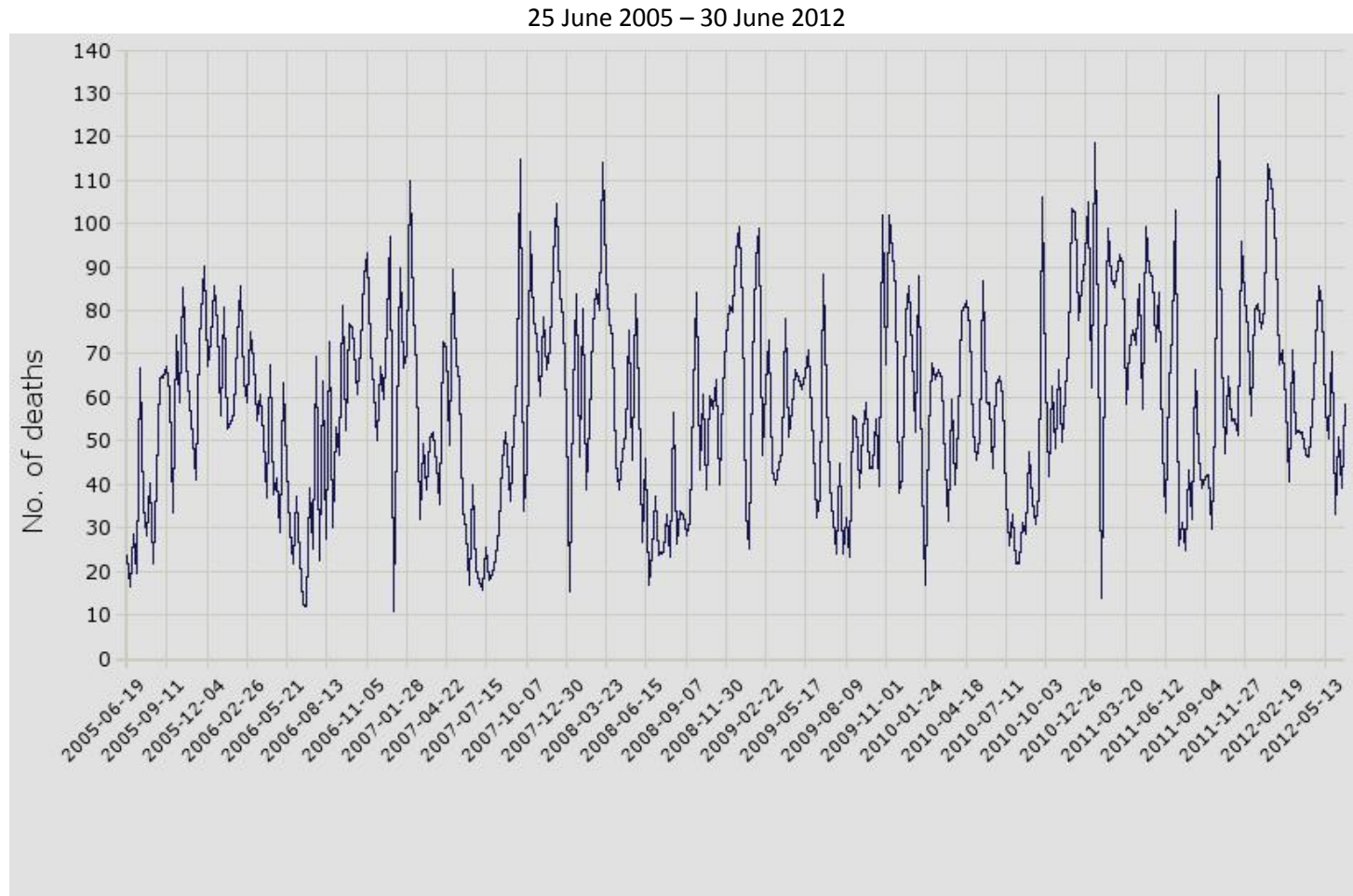


Health Burdens: Pollution related **Premature deaths** in Hong Kong during the term of office of Donald Tsang as Chief Executive

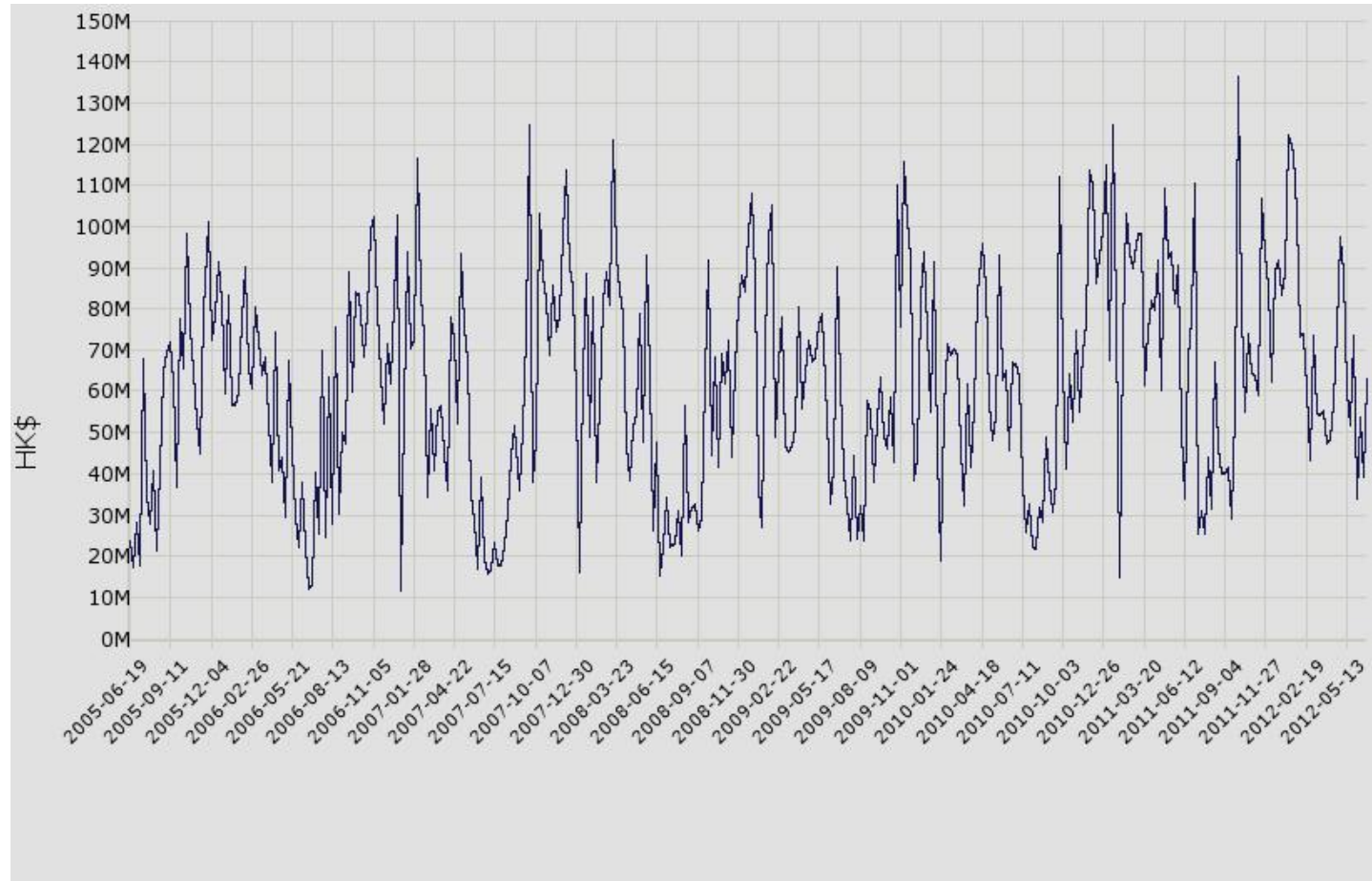


25 June 2005 – 30 June 2012
Tenure of Donald Tsang as Chief Executive of HKSAR



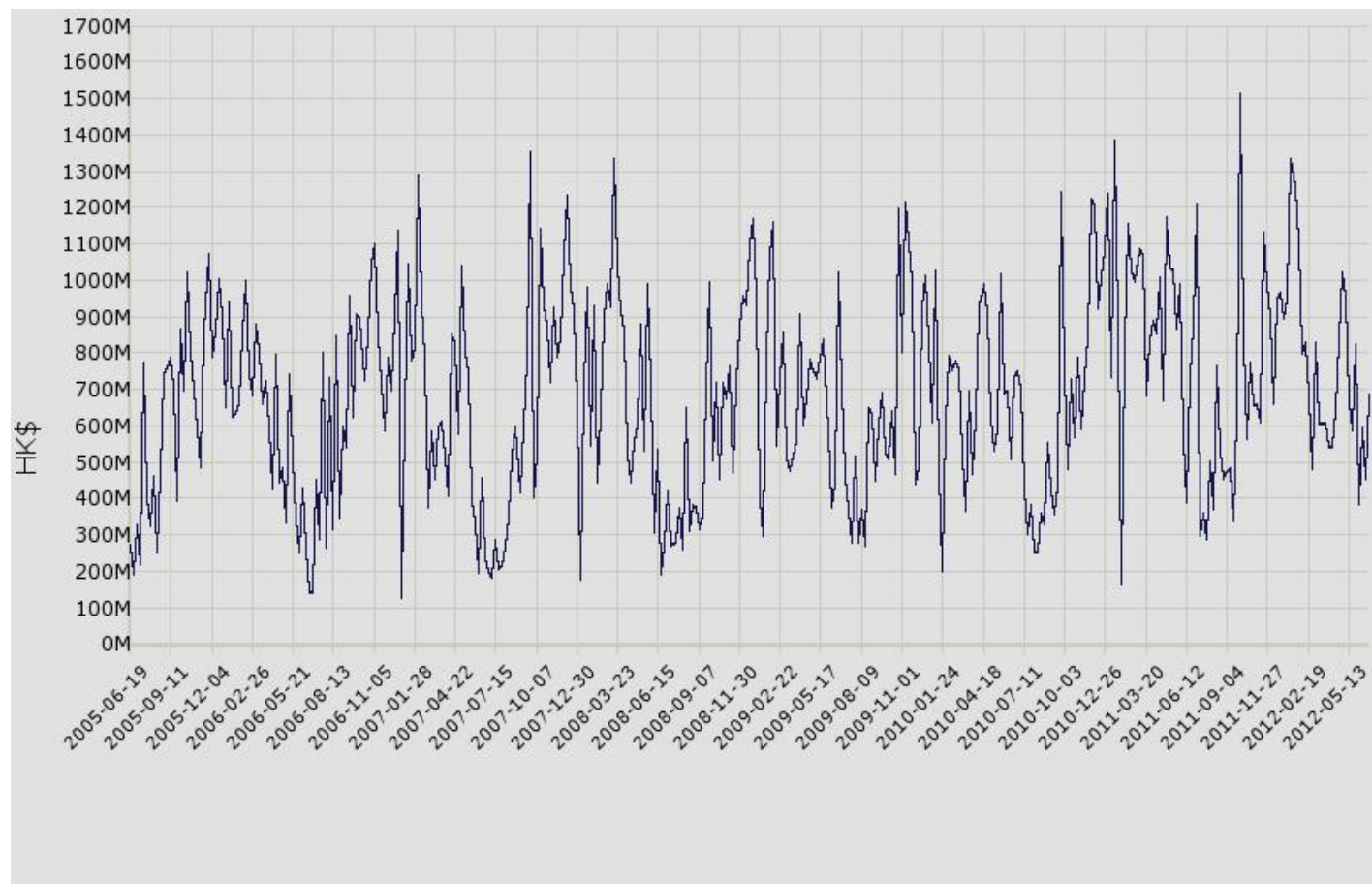
Health Burdens: Pollution related **Tangible Economic Loss** in Hong Kong during the term of office of Donald Tsang as Chief Executive

25 June 2005 – 30 June 2012



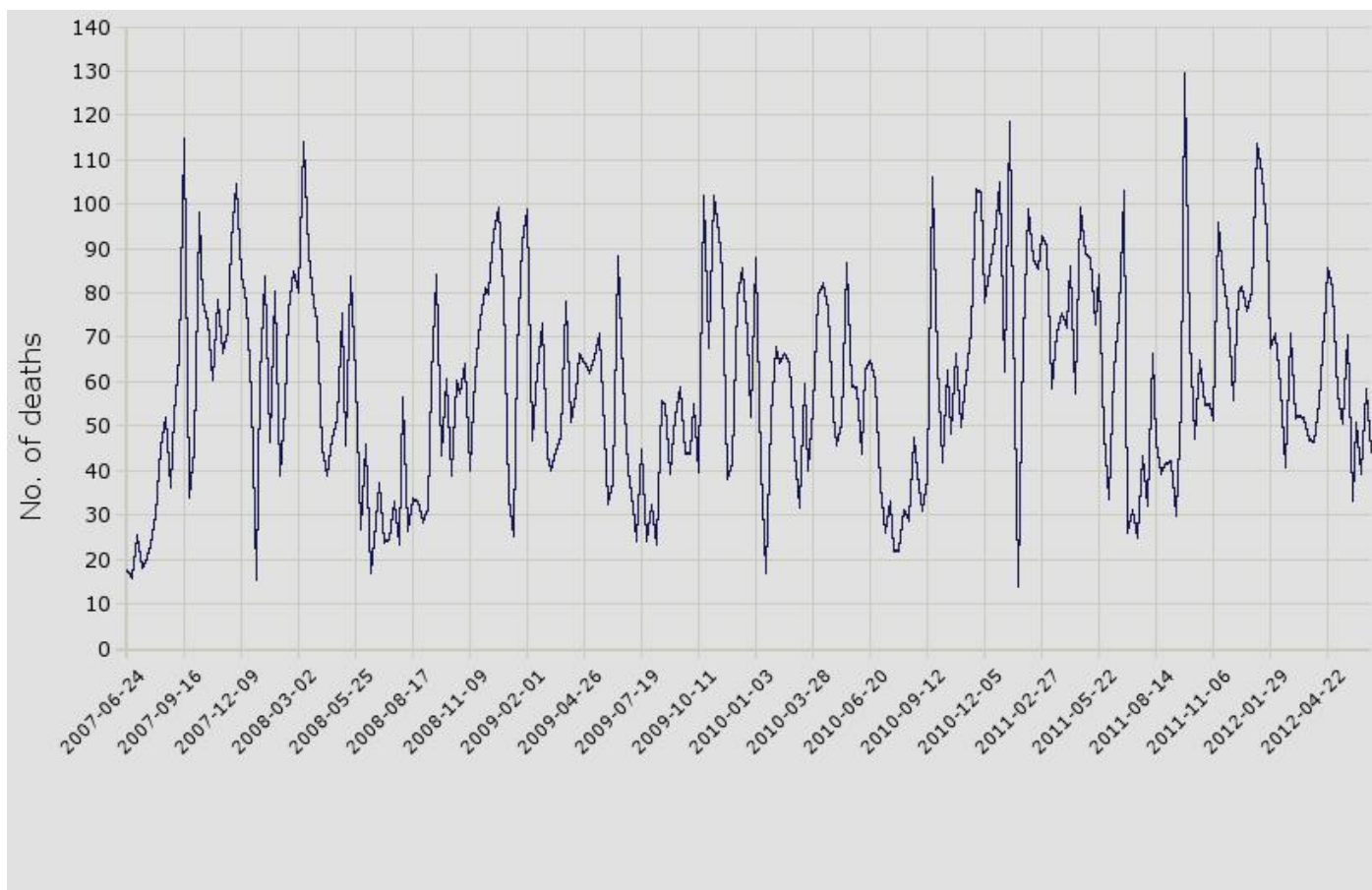
Health Burdens: Pollution related **Intangible Economic Loss** Hong Kong during the term of office of Donald Tsang as Chief Executive

25 June 2005 – 30 June 2012



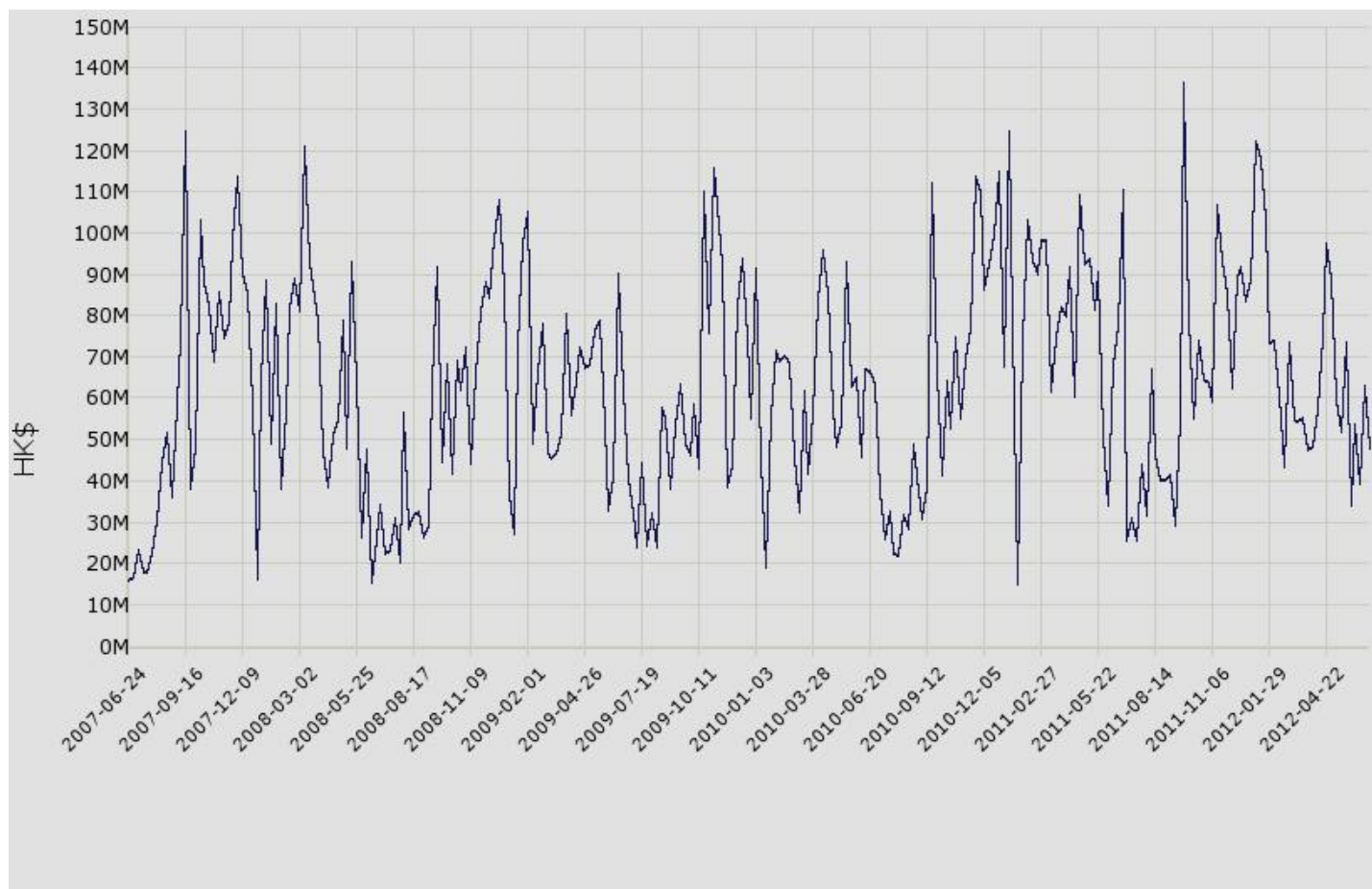
Health Burdens: Pollution related **Premature deaths** in Hong Kong during the term of office of Edward Yau as Secretary for the Environment

01 July 2007 – 30 June 2012



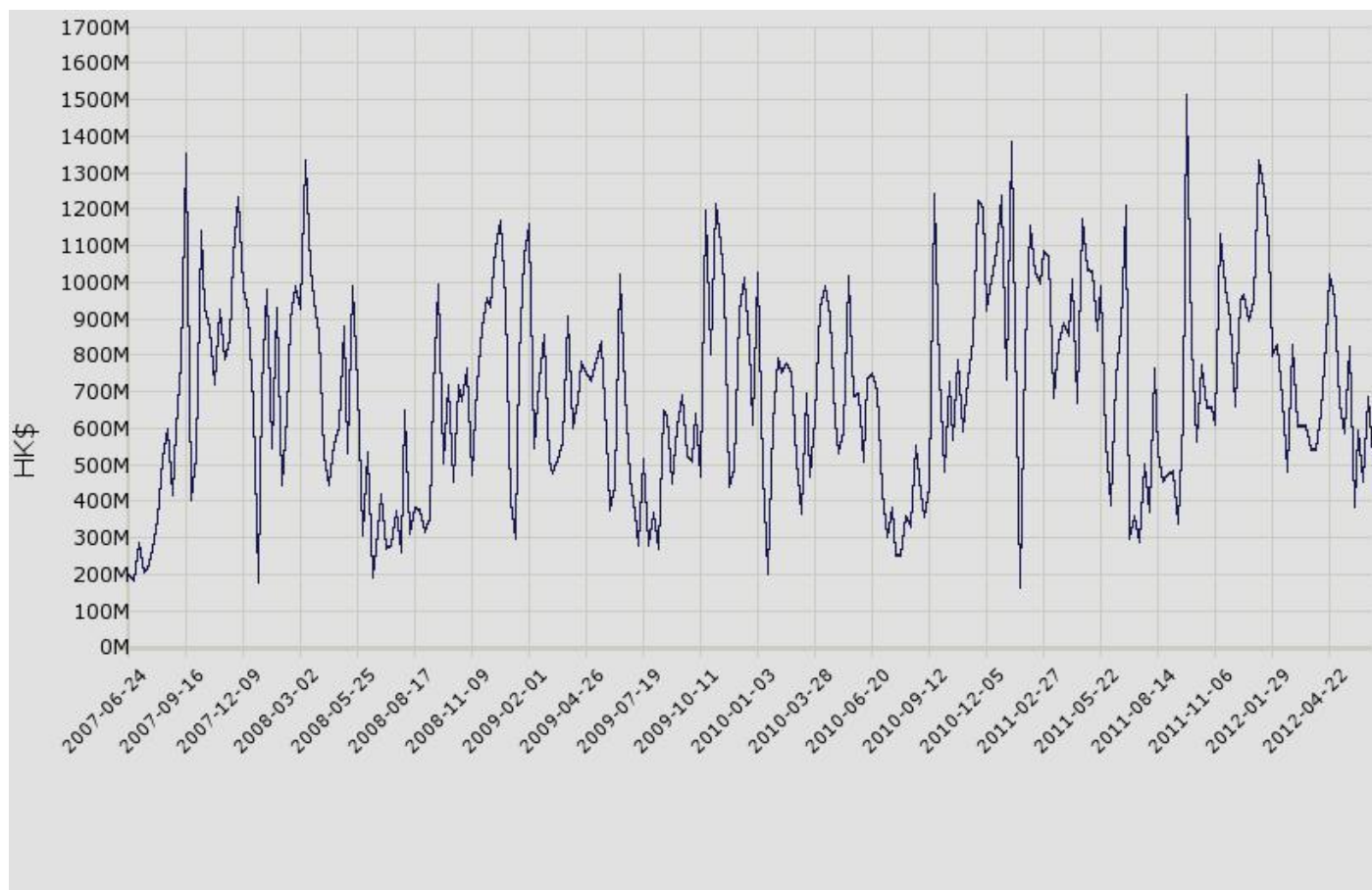
Health Burdens: Pollution related **Tangible Economic Loss** in Hong Kong during the term of office of Edward Yau as Secretary for the Environment

01 July 2007 – 30 June 2012



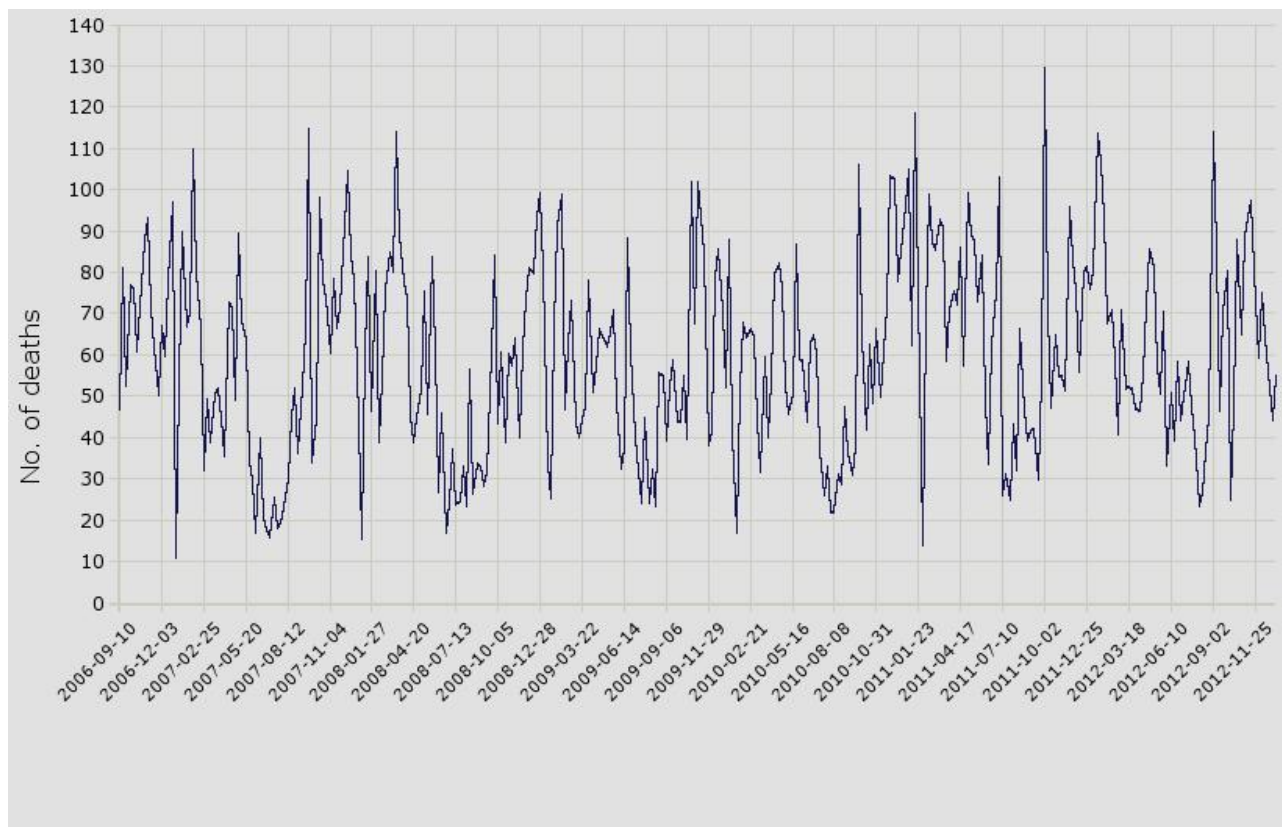
Health Burdens: Pollution related **Intangible Economic Loss** in Hong Kong **during the term of office of Edward Yau as Secretary for the Environment**

01 July 2007 – 30 June 2012



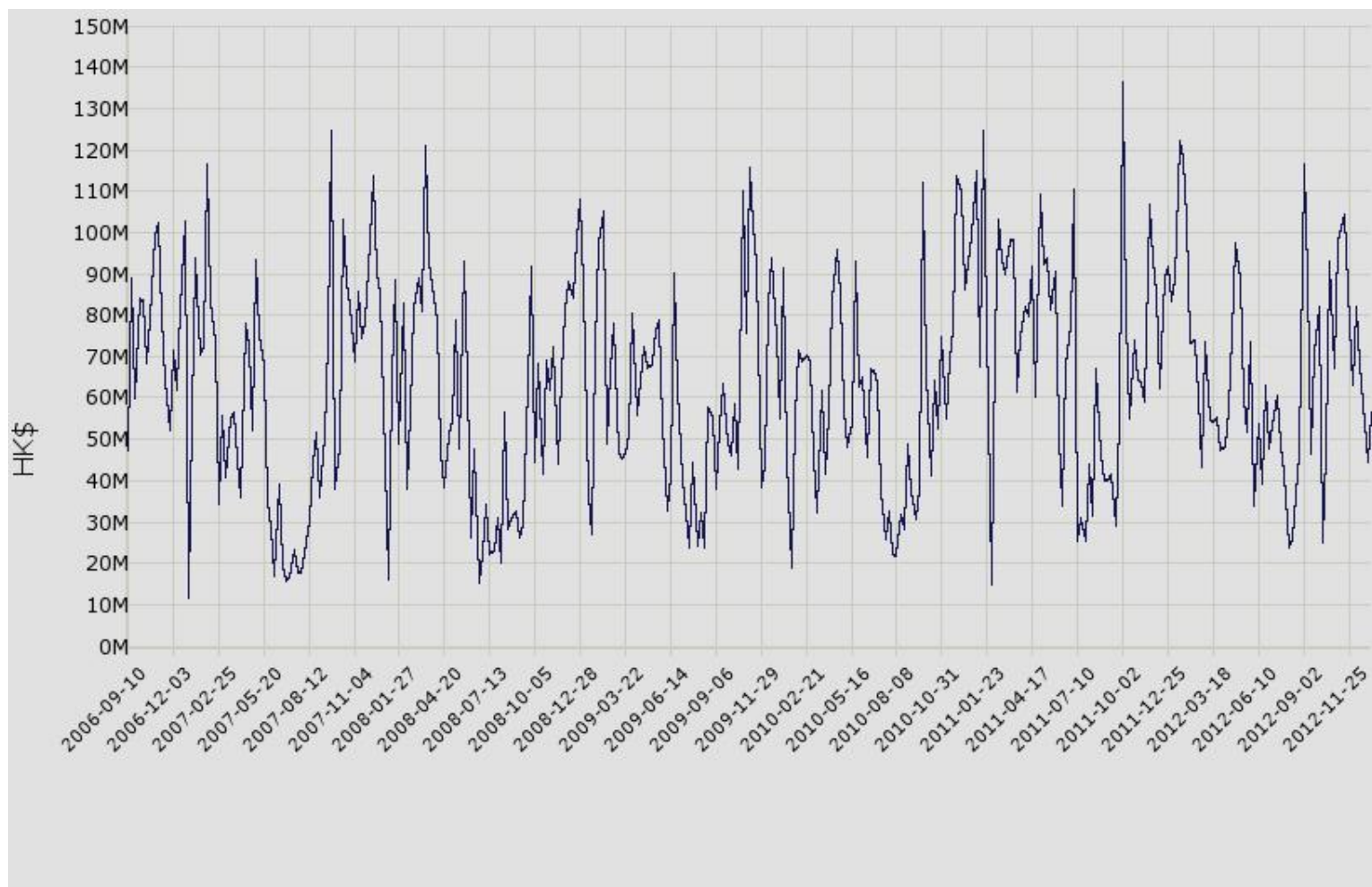
Health Burdens: Pollution related Premature deaths in Hong Kong **during the term of office of Anissa Wong Sean-yee as Permanent Secretary for the Environment and Director of Environmental Protection Department**

13 September 2006 – current 16 Jan 2013



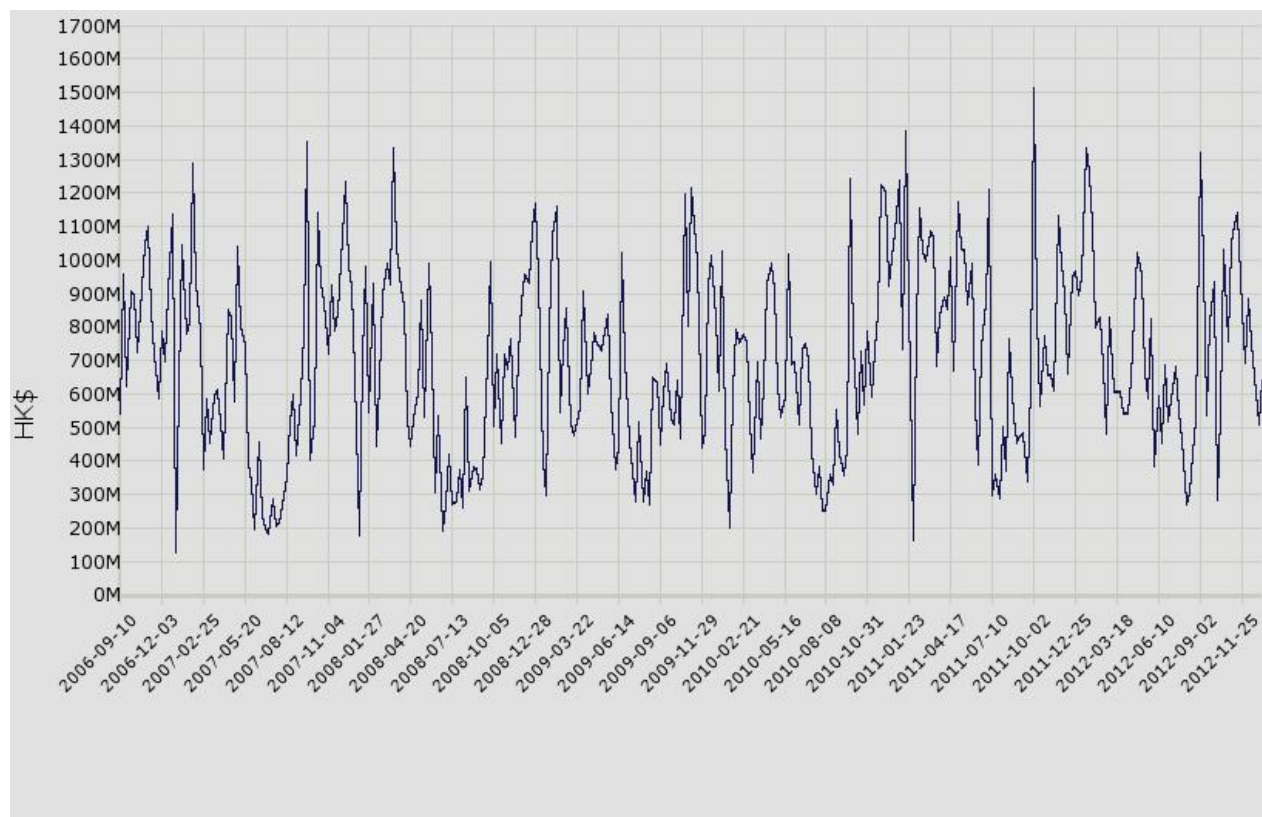
Health Burdens: Pollution related **Tangible** Economic Loss in Hong Kong during the term of office of Anissa Wong Sean-yee as Permanent Secretary for the Environment and Director of Environmental Protection Department

13 September 2006 – current 16 Jan 2013

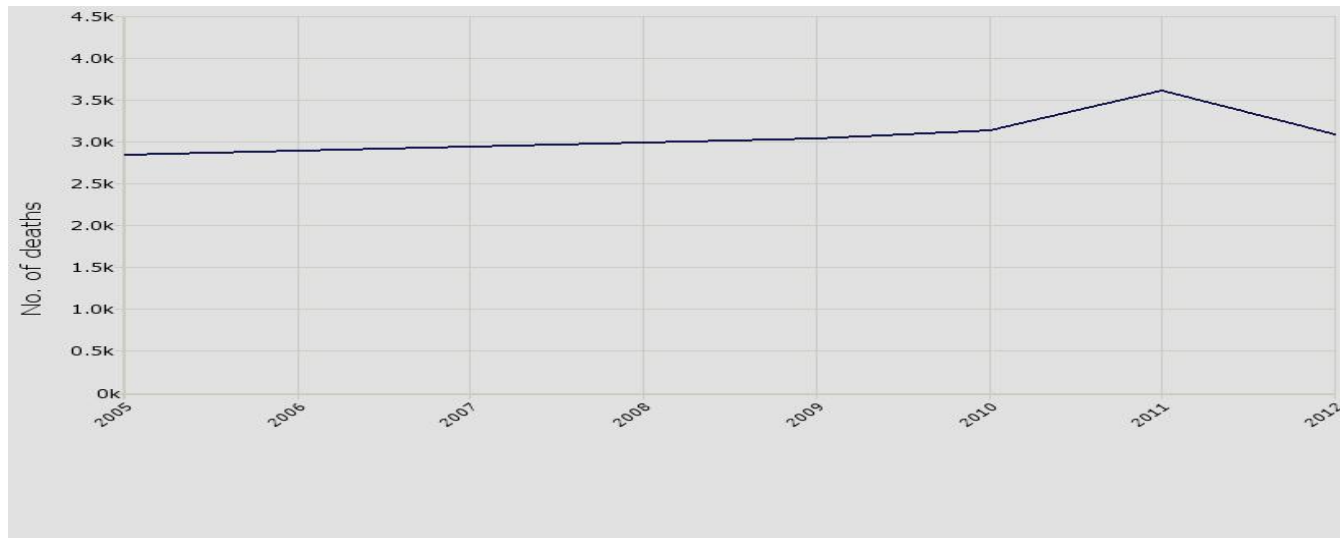


Health Burdens: Pollution related **Intangible** Economic Loss in Hong Kong **during the term of office of Anissa Wong Sean-ye** as **Permanent Secretary for the Environment and Director of Environmental Protection Department**

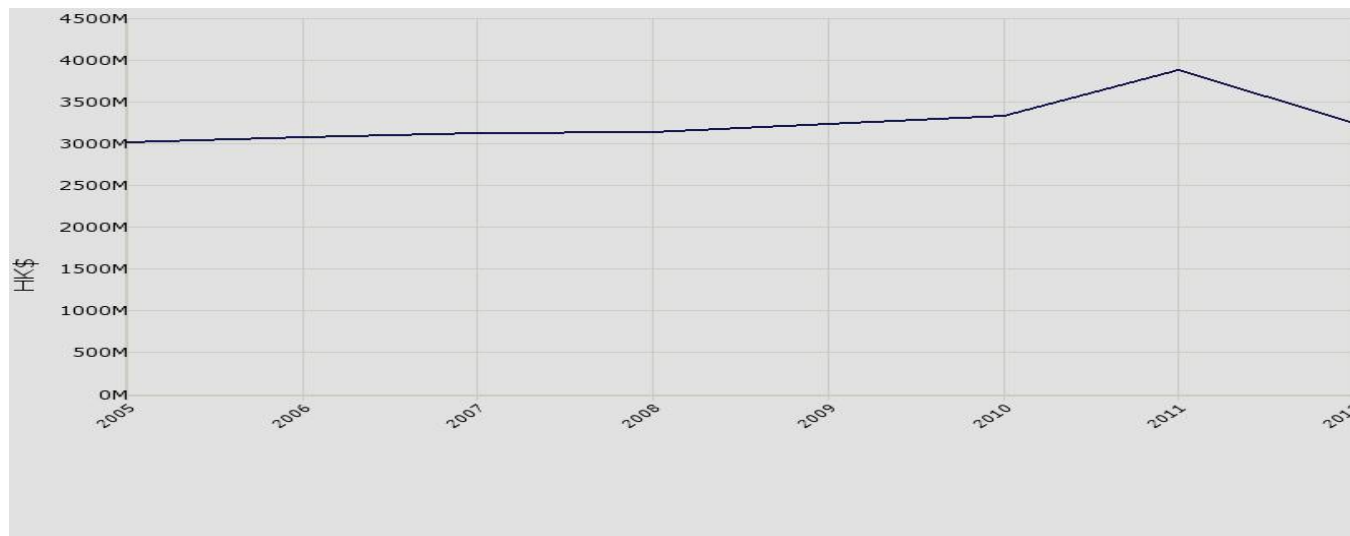
13 September 2006 – current 16 Jan 2013



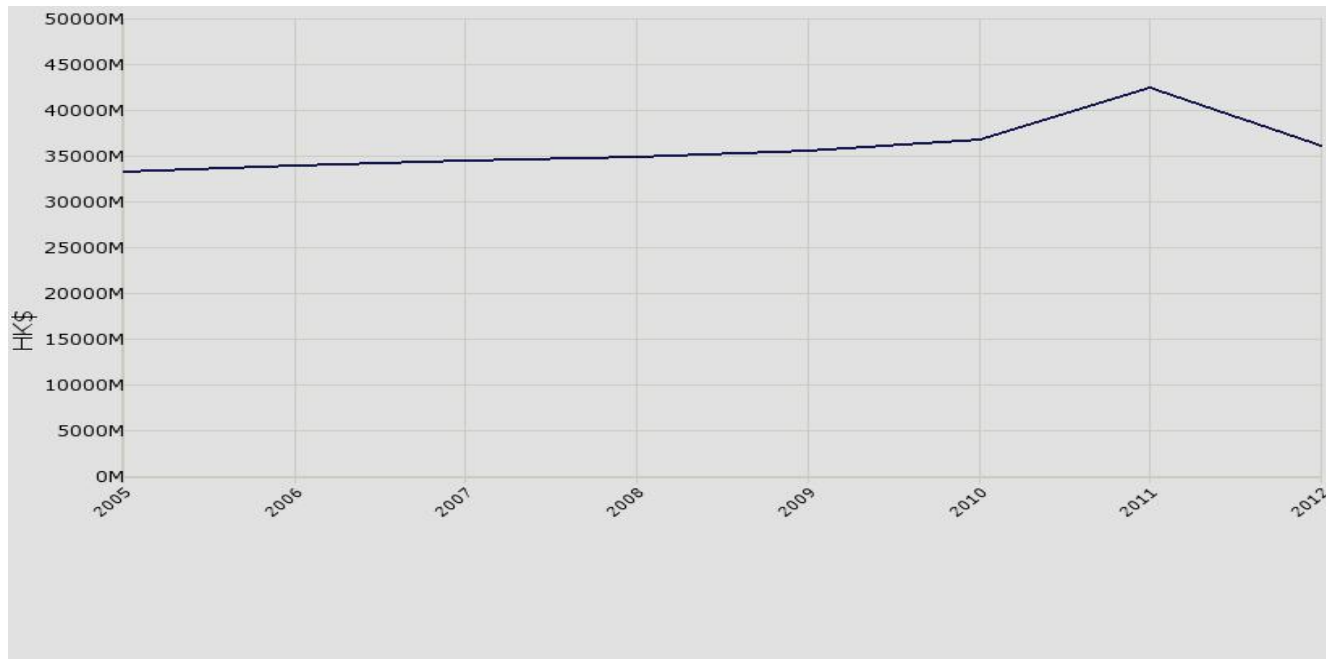
Annual pollution related premature deaths in Hong Kong 2005-2012 during the tenure of Donald Tsang as Chief Executive



Annual pollution related Tangible Economic Loss in Hong Kong 2005-2012 during the tenure of Donald Tsang as Chief Executive



Annual pollution related Intangible Economic Loss in Hong Kong 2005-2012 during the tenure of Donald Tsang as Chief Executive



How we calculated economic loss?

We calculated the overall health-related community costs of air pollution using the amount of adverse health effects caused by air pollution which we have so far been able to measure in our population. These costs can be categorized as the direct costs of health care; the indirect costs due to lost productivity and the intangible costs attributable to pain and suffering. The bad health outcomes include non-accidental causes of mortality (premature deaths), hospitalization (hospital admissions) and outpatient consultations (doctor visits) for cardiopulmonary diseases. However, there are many other health problems now known to be attributable to air pollution which have not yet been quantified in Hong Kong. These include a wide spectrum of harm to pregnant mothers, infants and people with diabetes. Therefore our current estimation of economic loss **is likely to be an underestimation of the real economic burden due to air pollution**, but it is evidence-based and provides a conservative translation of health impacts to a monetary value to support policy decision making. In our economic appraisal the direct health care costs due to the bad health outcomes attributable to air pollution include public and private hospital admissions (valued as bed days used), public out-patient consultations at general, specialist and accident and emergency clinics for cardiovascular and respiratory diseases (valued as cost of visits plus travel costs) and primary care doctor visits (valued as cost of visits plus travel). Indirect costs are the value of lost productivity due to work absence caused by sickness or early death for those of working age (15 to 64 years) and time lost from work due to hospital admissions and doctor visits. All losses were adjusted for current employment rates and valued as sex-specific median daily salaries. Intangible losses for lives lost due to air pollution were based on the average value of a lost life in Hong Kong. This was estimated from population surveys of the willingness-to-pay to avoid the loss of one statistical life (**HK\$10 million or US\$1.28 million**). *This is a conservative estimate, comparable to the range of US\$0.4 to \$9.7 million (HK\$ 3.12m – HK\$ 75.66m)* reported from Europe, Australia, New Zealand, US and Canada. To this we added the value of avoiding hospital admissions and coughing episodes which were over and above the costs of treatment. These values were also taken from local surveys of the willingness to pay to avoid the bad outcomes. <http://hedleyindex.sph.hku.hk/home.php>

