

Graphics for Lecture 10

CHAPTER 3



Bloomberg's Plan to Protect the Coast Focuses on Key Areas

Mayor Michael R. Bloomberg has proposed several major projects to protect the city and its economy from future flooding. Here are his proposals for coastal protection, most of which the mayor said were ready to be enacted. [Related Article >](#)



Portable flood walls and berms

For low-lying areas like Red Hook in Brooklyn, Hospital Row in Manhattan and East Harlem, the plan calls for a system that could include portable flood walls



Levees and flood walls

The plan recommends that a flood wall be built around Con Edison's Farragut substation on the East River, and a levee along the East Shore of Staten Island.



Local surge barriers

At narrow inlets such as Newtown Creek and the Gowanus Canal, the plan calls for movable gates in the water to keep a storm surge from reaching low-lying interior areas.



Multipurpose levees

The plan calls for a levee along the East River in Manhattan that could also be used for something else, like parking, or commercial or residential development.



Wetlands

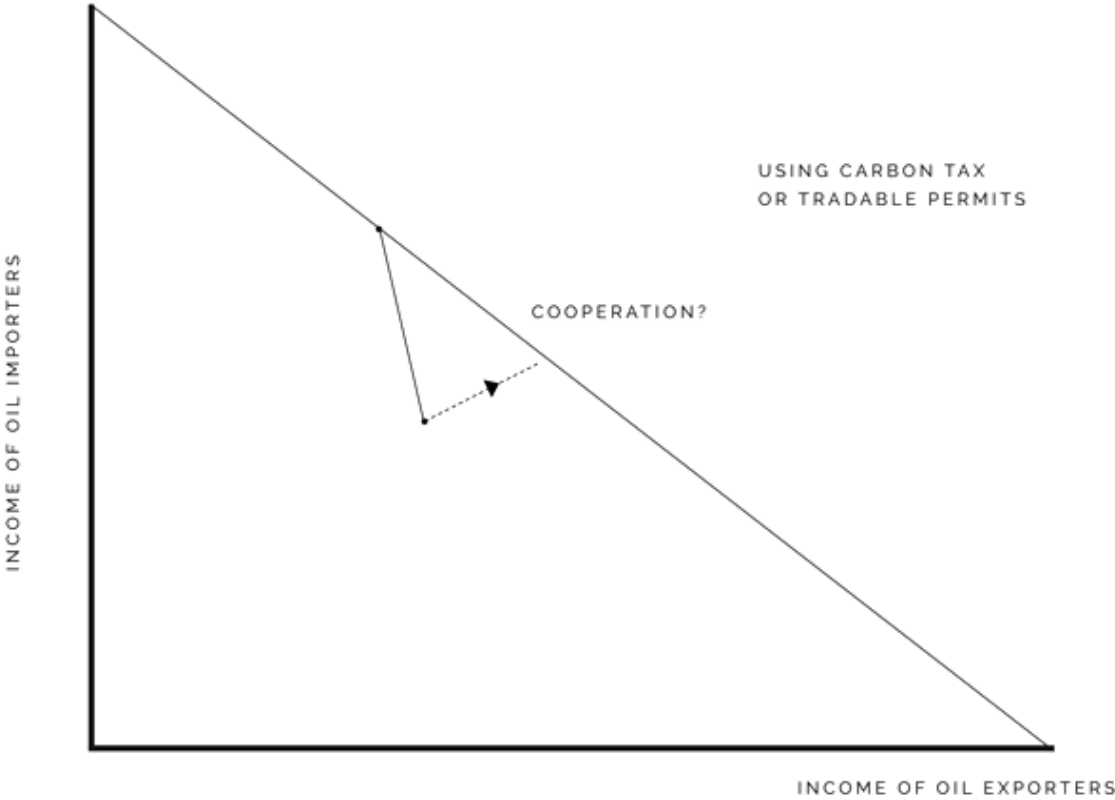
The city concluded that marshes and swamps, even trees, helped to reduce waves, and the plan calls for fostering them across the city.



Rebuilding beaches

A regular program of adding large quantities of sand to beaches subject to erosion, especially after storms, is envisioned for most of the city's oceanfront beaches.

CHAPTER 4



COAL RESERVES, BILLION METRIC TONS, 2012

Country	Reserves
United States	237.2
Russia	157.0
China	114.5
Australia	76.4
India	60.6
World	880.9
Top 5 % of World	73.3%

Source: BP Statistical Review of World Energy 2013

OIL RESERVES, BILLION BARRELS, 2012

Country/Group	Reserves
GCC	494.6
Venezuela	297.6
Canada	173.9
Iran	157
Iraq	150
World	1668.9
Top 5% World	76.3

Source: BP Statistical Review of World Energy 2013

NATURAL GAS RESERVES, BILLION CUBIC FEET, 2012

Country	Reserves
GCC	1494.5
Iran	1187.3
Russia	1162.5
Turkmenistan	618.1
Venezuela	196.4
World	6614.1
Top 5	67.5%

Source: BP Statistical Review of World Energy 2013

RANKING OF TOP 10 GLOBAL 500 BIGGEST COMPANIES

Ranking	Companies	Operating income	Profit	State	
2012	2013	million dollars	million dollars		
1	1	Royal Dutch Shell Plc	481700.0	26592.0	Netherlands
3	2	Wal-mart Stores Inc	469162.0	16999.0	US
2	3	Exxon Mobil Corp	449886.0	44880.0	US
5	4	Sinopec Group	428167.4	8221.1	China
6	5	China National Petroleum Corp	408630.0	18195.9	China
4	6	BP Plc	388285.0	11582.0	UK
7	7	State Grid Corp of China	298448.8	12317.9	China
10	8	Toyota Motor Corp	265701.8	11586.6	Japan
12	9	Volkswagen Group	247613.3	27909.1	Germany
11	10	Total Corporate	234277.5	13743.2	France

Source: fortunechina.com

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