







Natural Resource Use Indicators in the SDGs

For more information, please visit http://www.unep.org/asiapacificindicators or contact janet.salem@unep.org

			Year 2015		
SDG Goal	SDG Target	IAEG Indicator ¹ B	angladesh	Asia-Pacific Developing	
6 CLEAN WATER AND SANITATION	6.4 – Increase water-use efficiency	6.4.1 – Water Intensity (litres per US\$)	295	220	
7 AFFORDABLE AND CLEAN ENERGY	 7.2 – Increase share of renewable energy 7.3 – Improve energy efficiency 	 7.2.1 – Renewable energy share in tota primary energy supply² (percentage) 7.3.1 Energy Intensity (Megajoules per dollar) 	l 31.7% 14.2	18.3% 25.1	
× 1 ×		uonur)			
8 DECENT WORK AND ECONOMIC GROWTH	8.4 — Resource efficiency and decouple economic growth from environmental degradation	8.4.1 and 12.2.1 – Material Footprint Total (<i>million tonnes</i>) Per capita (<i>tonnes</i>) Per dollar (<i>Kilograms per dollar</i>)	306 1.9 2.5	40,728 10.8 4.5	
12 RESPONSIBLE CONSUMPTION AND PRODUCTION	12.2 – Sustainable management and efficient use of natural resources	8.4.2 and 12.2.2 – Domestic Material Consumption Total (million tonnes) Per capita (tonnes) Per dollar (Kilograms per dollar)	347 2.2 2.8	47,813 12.7 5.3	
17 PARTNERSHIPS FOR THE GOALS	17.11 – Exports of developing countries	17.11.1 – Developing countries and least developed countries export value Exports (<i>million dollars</i>) Exports (<i>million tonnes</i>) Unit price of exports (<i>dollars per kilogram</i>)	23,889 0.2 106.7	3,189,657 2,304 1.4	

¹According to the "Report of the Inter-Agency and Expert Group on Sustainable Development Goal Indicators", Item 3 (a) of the provisional agenda, Forty-seventh session of the Statistical Commission on 8-11 March 2016 at http://unstats.un.org/unsd/statcom/47th-session/documents/2016-2-SDGs-Rev1-E.pdf ² Share of Renewables and Hydro of the Total Primary Energy Supply.



Materials

Materials are the 'things' that make up the products and infrastructure of our society. They include biomass (crops, livestock, forest products, fish), fossil fuels (coal, oil, gas), metals and minerals.

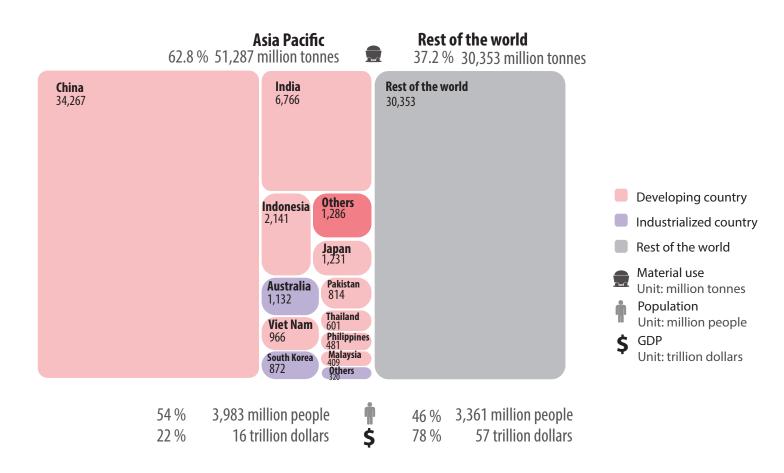
These materials underpin human nutrition and health, fuel energy systems and provide the structural base for buildings, transport networks, vehicles and all consumer goods.

The SDGs relevant to materials are:

SDG Target	SDGS relevant to materials are: SDG Target IAEG Indicator		ladesh	Asia-Pacific Developing		
		2010	2015	2010	2015	
8.4 – Resource efficiency and	8.4.1 and 12.2.1 – Material Footprint					
decouple economic growth from environmental degradation	Total (million tonnes)	226	306	28,833	40,729	
	Per capita <i>(tonnes)</i>	1.5	1.9	7.9	10.8	
	Per dollar <i>(Kilograms per dollar)</i>	2.6	2.5	4.4	4.5	
12.2 — Sustainable management and efficient use of natural resources	8.4.2 and 12.2.2 – Domestic Material Consumption					
	Total (million tonnes)	256	347	33,885	47,813	
	Per capita <i>(tonnes)</i>	1.7	2.2	9.3	12.7	
	Per dollar <i>(Kilograms per dollar)</i>	2.9	2.8	5.2	5.3	

IAEG indicator 12.2.2:

Bangladesh has a Domestic Material Consumption of 347 million tonnes of material per year. It grew by 36% between 2010 and 2015.

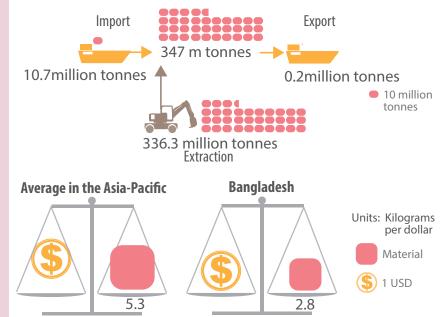


IAEG indicator 12.2.1:

Bangladesh's Domestic Material Consumption is 347 million tonnes. This consists of 336 million tonnes extracted from its environment plus the 11 million tonnes imported, less 0.2 million tonnes exported material.

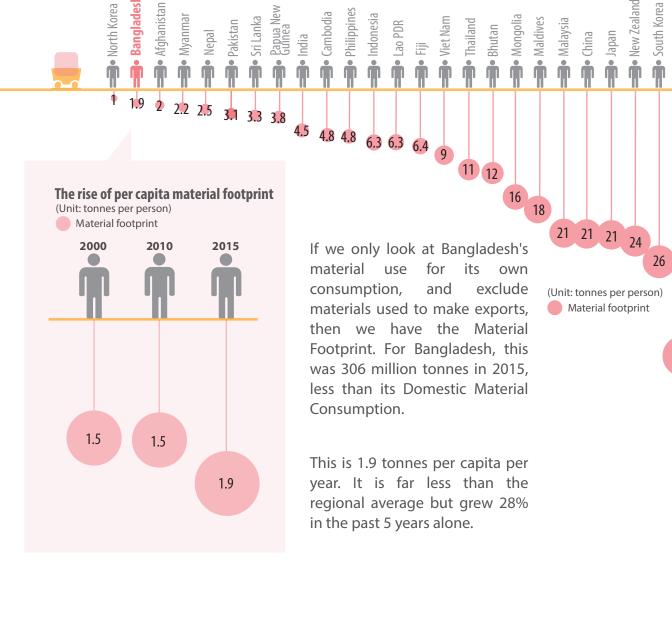
IAEG indicator 12.2.2:

Bangladesh uses 2.8 kilograms per dollar - this is called Material Intensity. It is 46% lower than other developing Asia and Pacific countries.



IAEG indicator 12.2.1

What about material footprint per capita in 2015?



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Singapore

Australia



Energy

Energy use is measured with the indicator primary energy supply. This indicator reports the total amount of energy (in joules) available to businesses and households in an economy by summing up domestically produced energy and energy imports and subtracting energy exports. The supply of primary energy may come from different energy sources including coal, petroleum, natural gas, uranium, and renewable energy sources such as hydro, solar and wind. Electricity is only included if it is exported or imported - in all other cases it is derived from one of the energy sources already measured.

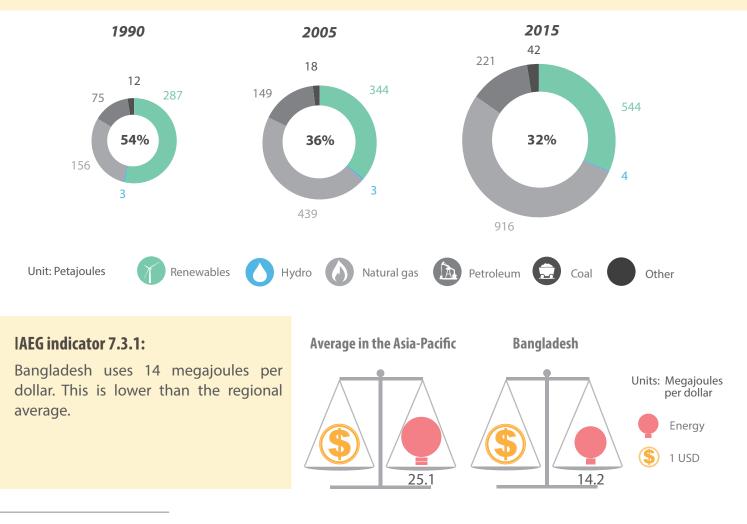
The SDGs relevant to materials are:

SDG Target	e: IAEG Indicator	Bangladesh 2010 2015		Asia-Pacific Developing 2010 2015		
 7.2 – Increase share of renewable energy 7.3 – Improve energy efficiency 	 7.2.1 – Renewable energy share in total primary energy supply³ (percentage) 7.3.1 – Energy Intensity (Megajoules per dollar) 	28.8%	31.7%	17.7%	18.32% 25.1	

IAEG indicator 7.2.1:

Bangladesh used 1,727 petajoules of energy in 2015. Of this, 32% was renewable.

The amount of renewable energy grew each year, but the amount of non-renewable energy grew faster, therefore the share of renewable energy is decreasing.



³ For this report we include "renewables" and "hydro" as renewable energy sources.



Trade

No country is 100% self sufficient in its resource use. Each country imports products that complement domestic supplies, and exports products to generate export earnings. SDG target 17.11 calls on developing countries to increase their share of global exports, measured in economic value. Countries may wish to monitor the amount of natural resources that are exported as well as the value. This will determine whether developing countries are able to increase their share of exports by adding value to their natural resource exports or by increasing the physical amount of exports.

The SDGs relevant to materials are:

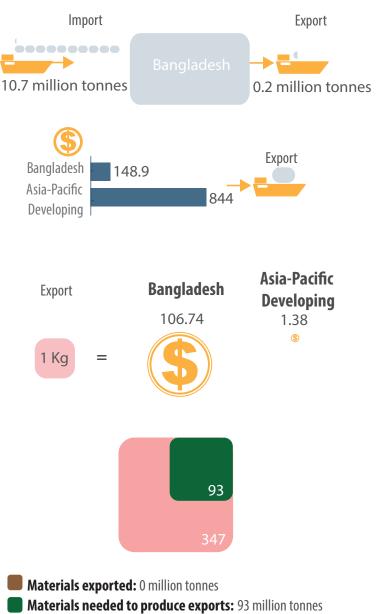
arget IAEG Indicator		Bangladesh		Asia-Pacific Developing		
	2010	2015	2010	2015		
17.11.1 — Developing countries and least developed countries export value						
Exports (million dollars)	14,680	23,889	2,299,614	3,189,657		
Exports (million tonnes)	0	0	1,706	2,305		
Unit price of exports (dollars per kilogram)	88.9	106.7	1.3	1.4		
	17.11.1 — Developing countries and least developed countries export value Exports <i>(million dollars)</i> Exports (<i>million tonnes</i>)	2010 17.11.1 – Developing countries and least developed countries export value Exports (<i>million dollars</i>) 14,680 Exports (<i>million tonnes</i>) 0	2010201517.11.1 – Developing countries and least developed countries export value Exports (million dollars)14,68023,889Exports (million tonnes)00	IAEG IndicatorBangladeshDevelop20102015201017.11.1 – Developing countries and least developed countries export value 14,68023,8892,299,614Exports (million dollars)14,680001,706	IAEG IndicatorBangladesh Developing 2010Developing 201017.11.1 – Developing countries and least developed countries export value Exports (million dollars)14,68023,8892,299,6143,189,657Exports (million tonnes)001,7062,305	

Bangladesh exported 0.2 million tonnes of materials in 2015. On a per capita basis, this is 1.4 kilograms per year.

In 2015 the value of exports was \$23.9 billion in total, or \$149 per capita, which was lower than the value for Asia-Pacific developing countries (\$844 per capita).

The unit price for exports was \$106.74 per kg, which is higher than the regional average of \$1.38 per kg.

The Material Footprint of the exports was 93 million tonnes in 2015, which was 27% of materials entering into Bangladesh's economy.



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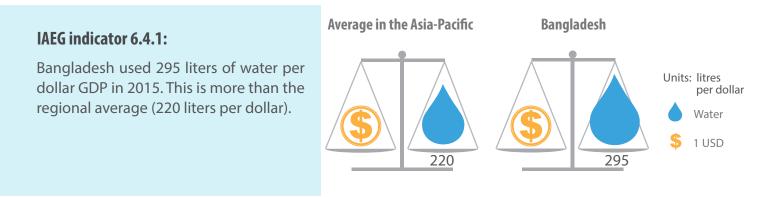
Materials entering Bangladesh's economy: 347 million tonnes



Water

Unlike other natural resources, water is often reused multiple times in the same year. Furthermore, the great majority of it is extracted from sources which will replenish themselves naturally, via the hydrological cycle, so issues of its usage are really those of managing a renewable resource flow rather than managing a depleting non-renewable resource stock. The water use indicator presented here reports total fresh water abstractions for use in agriculture, industry and in the residential sector, from all surface and underground sources. Direct rain fed onto crops is not included. The total water withdrawals indicator by itself is not an indicator of water stress as it does not include information on the natural availability of water in the region where withdrawals take place.

The SDGs relevant to materials a SDG Target	re: IAEG Indicator	5	adesh <i>2015</i>	Asia-P Devel 2010		
6.4 – Increase water-use efficiency	6.4.1 – Water Intensity (litres per US dollar)	407	295	304	220	



Want to know more information? Indicators for Resource Efficient and Green Asia http://www.unep.org/asiapacificindicators Indicators data http://uneplive.unep.org/ UNEP www.unep.org

SWITCH-Asia

http://www.switch-asia.eu/news/indicators-for-a-resource-efficient-and-green-asia-and-the-pacific



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