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COMMITTED ENVIRONMENTAL POLICY

Limiting the environmental impact of its products and manufacturing operations is a major goal for Michelin. The Group actively combats climate change and is committed to protecting biodiversity around its sites.

P O I N T S F O R I M P R O V E M E N T



Michelin has established global points for improvement in two areas: products and manufacturing operations. To bring them under the spotlight, the Group made them the environmental pillar of its **Ambitions for 2020** in 2013, and reasserted them at the COP 21 in the form of two objectives:

- **Product's energy performance:**
 - save 3 billion liters of fuel over the lifespan of our tires, thereby reducing CO₂ emissions by more than 8 million tonnes compared with 2010
 - contribute to the development of a circular economy by increasing the percentage of renewable or recycled materials in our tires to 30%.
- **Responsible manufacturing:** become a standard-setter by
 - promoting responsible logistics and reducing the Group's CO₂ emissions by 10% compared with 2010
 - reducing the environmental impact of our plants (as measured by the MEF, Michelin Environmental Footprint) by 50% in relation to 2005.

E N V I R O N M E N T A L I M P A C T

More than 90% of the environmental impact of the tire occurs in-use phase. 20 to 30% of car fuel consumption is related to the tire: by lowering rolling resistance, we reduce fuel consumption. In recent years, our engineers managed to significantly low rolling resistance of our tires without jeopardizing their level of performances.

P E R F O R M A N C E I N D I C A T O R

To improve Group sites' **environmental performance**, we need to be able to measure it. This is why Michelin defined an environmental performance indicator in 2005.

Called the **Michelin Environmental Footprint (MEF)**, it spans the six most important environmental factors for the Group's medium-term manufacturing operations. This compound indicator comprises:

- resource usage (water, energy and waste generation),
- atmospheric emissions (VOCs and CO₂),
- waste sent to landfill.

PERFORMANCE OF THE MICHELIN ENVIRONMENTAL FOOTPRINT (MEF) INDICATOR

Ambitions for 2020	2020 ambition compared with 2005	2005	2010	2015				
					2016	2020 target	% change vs. 2005	% change vs. 2015
MEF	-50%	100	70	62.8	57	50	-43.0%	-9.2%
Energy consumption in GJ/t of finished product (FP)	-38%	17.4	14.4	13.1	12.46	10.8	-28.4%	-4.9%

Performance by MEF component – Group	Unit	2010	2015			
				2016	2016 target	2017 target
Energy consumption	GJ/t FP	14.4	13.1	12.46	12.80	12.34
Water consumption	m ³ /t FP	11.8	10.5	9.25	10.3	9.10
VOC emissions	kg/t FP	2.89	2.49	2.31	2.5	2.17
CO ₂ emissions	t/t FP	1.28	1.09	0.99	1.10	0.92
Waste generated	kg/t FP	109.5	115.2	106.0	112.9	104.0
Waste landfilled	kg/t FP	10.2	7.36	4.95	4.14	4.50
MEF		70	62.8	57	61	55

K E Y F I G U R E S

ENVIRONMENTAL PERFORMANCE

+

F O C U S O N

TRAINING AND INFORMING THE GROUP'S PERSONNEL AND PARTNERS

+

MICHELIN IS ACTING TO PROTECT THE CLIMATE BY INVESTING IN LIVELIHOODS

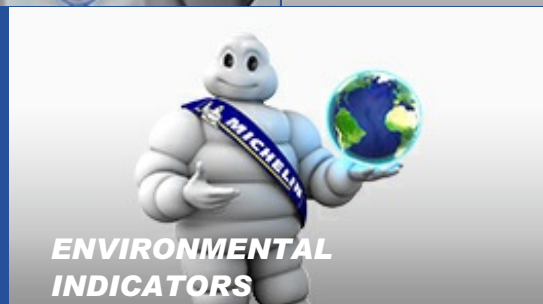
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L E A R N M O R E

ISO 14001: WHEN CARING FOR THE ENVIRONMENT BECOMES THE NORM

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OUR MISSION

Michelin, the leading tire company, is dedicated to enhancing its clients' mobility, sustainably; designing and distributing the most suitable tires, services and solutions for its clients' needs; providing digital services, maps and guides to help enrich trips and travels and make them unique experiences; and developing high-technology materials that serve the mobility industry. Headquartered in Clermont-Ferrand, France, Michelin is present in 170 countries, has 111,700 employees and operates 68 production facilities in 17 countries which together produced 187 million tires in 2016.

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