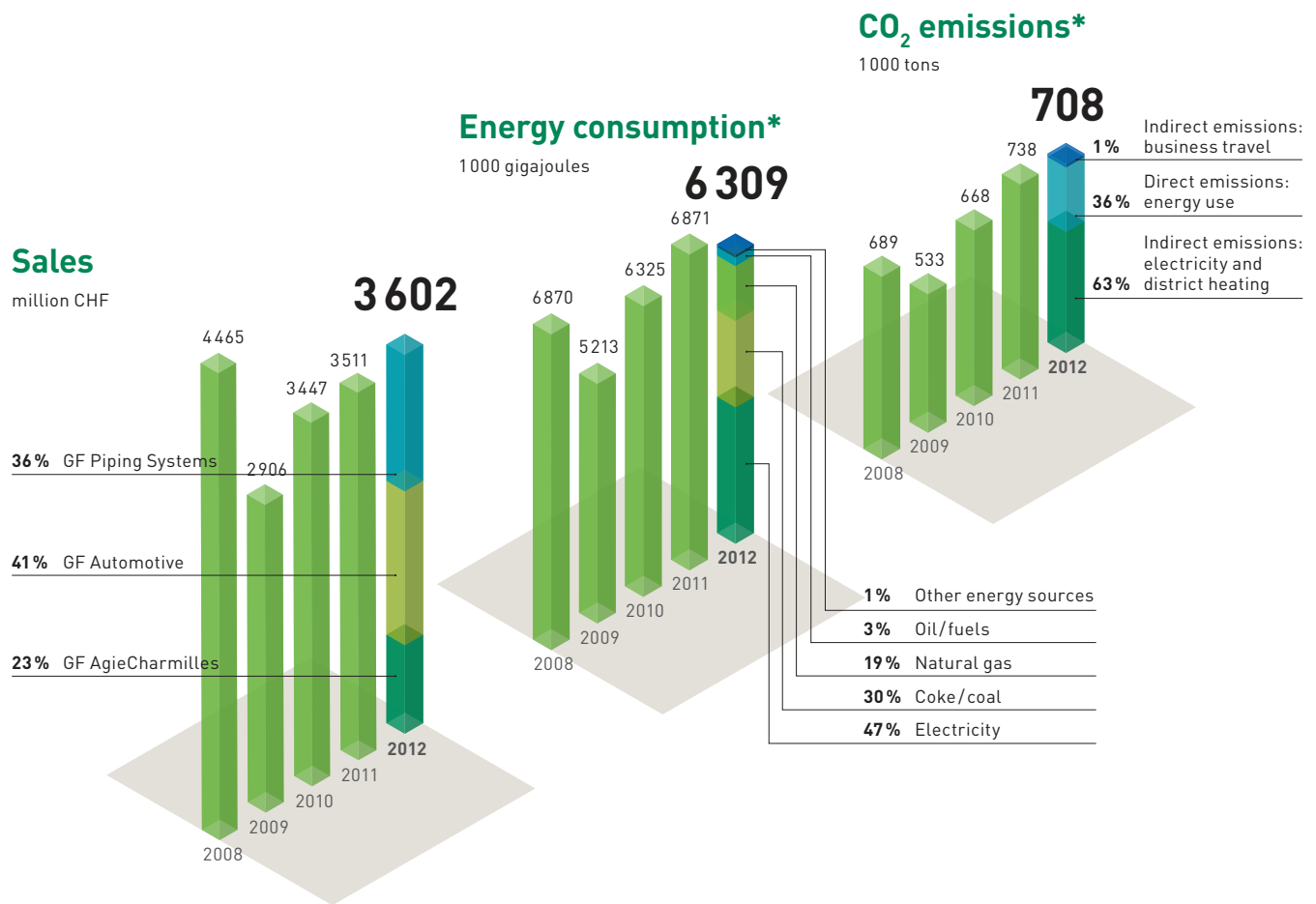


# We ensure

Sustainable development

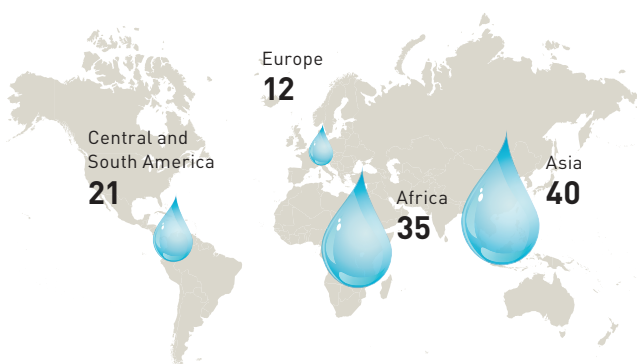
# At a glance 2012



\* Georg Fischer realized various energy saving programs and divested two energy intensive production plants. This results in lower energy consumption and CO<sub>2</sub> emissions.

## Clean Water projects

2002–2012

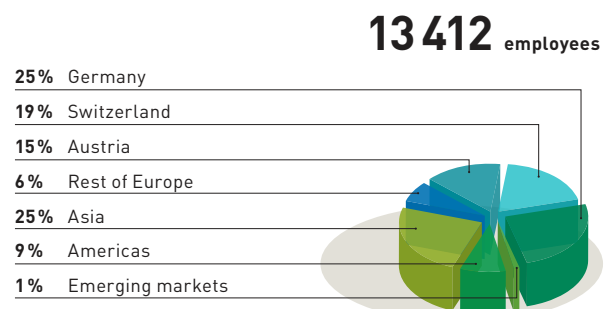


### 108 Clean Water projects

The Clean Water Foundation received a donation of CHF 3.5 million when it was founded at the 2002 Annual Shareholders' Meeting. To date, Georg Fischer has donated more than CHF 7.5 million to the Foundation. This has made it possible to implement more than 100 projects in over 50 countries on four continents.

## Employees

Employees by region (in %)



### 455 apprentices

Georg Fischer has a long tradition of training apprentices. In 2012, Georg Fischer offered a total of 455 positions, of which 192 were in Switzerland, for training in various technical or commercial professions.



## **We directly contribute to our customers' sustainability. Our products and services have a positive impact on our customers' sustainability objectives. We make sure that our facilities show the way in this respect.**

I am pleased to present you our interim Sustainability Report 2012. As an international company active in 30 countries, our goal is to anchor sustainability in all of our operations. It is our aim to reduce energy and water consumption within our plants. We train our employees in all divisions to work as a team to address these issues.

GF Piping Systems has a direct positive impact on one of the world's most precious resources: water. By providing pipes and fittings that are secure and free of leaks, we thus prevent water leakages and contamination.

At GF Automotive we use recycled materials in order to produce new, highly resistant and durable metal components. Thanks to innovative designs, we produce parts that reduce weight by 20 to 50 percent. This allows our customers to produce cars and trucks which are lighter and generate lower CO<sub>2</sub> emissions. In addition, 90% of our iron needs are met by recycling 500 000 tons of scrap metal.

GF AgieCharmilles manufactures innovative, high precision machine tools which minimize waste for its customers. We also train our employees to work together as a team in order to offer the best possible service to our customers, ensuring that their production can run smoothly without interruption and more efficiently.

Across the world, we continue to provide clean drinking water to countries in need with our Clean Water Foundation ([www.cleanwater.ch](http://www.cleanwater.ch)). To date, Clean Water has been able to help 200 000 people get access to clean drinking water and a sustainable water supply.

Despite all these efforts, we continue to strive for even more effective methods to be sustainable. We always welcome your feedback to uphold this identity and look forward to any suggestions or comments. The next full Sustainability Report will be published in 2014.

Yves Serra  
CEO



# Highlights 2012

## Ultramodern facility for energy-efficient lightweight car parts

GF Automotive inaugurated one of the world's most modern manufacturing facilities in Mettmann (Germany). The new production line – known as "Aeration Moulding Robotpouring" (AMR) – supplies car makers with lightweight metal parts. This helps to make lighter cars that use less fuel and create less CO<sub>2</sub> emissions. The new facility is also a benchmark in energy efficiency, with a built-in heat recovery system and state-of-the-art electro motors to reduce energy consumption by more than 40 percent. Furthermore, with more than 20 robots doing the heavy work, the high level of automation relieves employees of the workload strain.





## Clean Water and Caritas launch new projects



As part of the partnership between Clean Water and the aid organization Caritas, three new projects were launched in Pakistan, Tadjikistan and South Sudan. The realization of the projects takes up to 18 months and provides people with clean drinking water. In Kashmore (Pakistan) pipes, hand pumps and water reservoirs were repaired, and in South Sudan a rock catchment system was built. In total, over 10 000 people now benefit from this. The longevity of the results is ensured by training the locals in the use and maintenance of the new applications. These projects help prevent water borne diseases, lower the child mortality rate and improve the quality of life. In 2013, another three projects started in Vietnam, Bolivia and Bangladesh.

## Milestone in reaching the sustainability objectives

GF Automotive in Herzogenburg (Austria) found a solution to improve energy efficiency. The currently applied concept connects the cooling circuit to the new production hall via a second heat exchanging unit. The supplied heat flow can be used for heating requirements such as hot water. CO<sub>2</sub> emissions are reduced by 138 tons per year, while energy costs could be reduced by circa CHF 48 000 compared with a conventional gas heating system.

## Accident rate has decreased

The number of industrial accidents decreased down to 50 from 61 (per 1 000 employees) in comparison with the previous year. Industrial accident meetings, lead by production management, safety departments and department managers could decrease the number of industrial accidents and durability of absence. Workshops of occupational safety, environment and energy supported the drop. The number of workshops will increase in 2013.

## Solar power for lower CO<sub>2</sub> emissions at headquarters

In autumn 2012, Georg Fischer began operating a photovoltaic installation at the Schaffhausen headquarters. The installation can produce 50 000 kWh annually, which is fed into the GF electricity grid to save 15 000 kg CO<sub>2</sub> emissions a year. The project incorporates products from GF Automotive to help transform the solar energy from the 216 solar panels into electricity. The installation will supply 25 percent of the annual requirement of the main building at the Corporation's headquarters.

## Partnership with suppliers leads to energy savings

Sustainability is an important issue for the suppliers of GF. The German firm Epucet has developed a machine bed made of mineral casting for some of the machine tools from GF AgieCharmilles. Thanks to its dampening and vibration-inhibiting properties, mineral casting extends the useful life of tools and also helps to reduce waste. A jointly developed logistics concept contributes to lowering emissions by means of optimizing work processes and ensuring the efficient transport of machine beds. Moreover, mineral castings can be used as recycled construction material.

## Innovation Award for GF Piping Systems



During theACHEMA 2012, the world's largest trade fair for Chemical Engineering and Biotechnology in Frankfurt (Germany), the most innovative equipment, products and processes in the chemical, pharmaceutical and process engineering industries were awarded. GF Piping Systems has created a solution that reduces wear on the valves and achieved an added value in energy consumption with innovative improvements. The development contributes a longer life-time of systems and resulted in significant cost savings.

## Environmental performance indicators

	Unit	2012	2011	2010	2009	2008
<b>Energy</b>						
Total energy consumption	1 000 GJ	6 309	6 871	6 325	5 213	6 870
– Electricity	1 000 GJ	2 957	2 999	2 760	2 193	2 775
– Natural gas	1 000 GJ	1 200	1 446	1 475	1 329	1 588
– Coke/coal	1 000 GJ	1 918	2 164	1 864	1 437	2 245
– Oil/fuels	1 000 GJ	210	241	210	225	207
– Other energy sources	1 000 GJ	24	21	16	29	55
<b>Air emissions</b>						
Nitrogen oxides (NO <sub>x</sub> )	1 000 tons	1.33	1.36	1.21	0.93	1.21
Sulphur oxides (SO <sub>x</sub> )	1 000 tons	2.65	2.77	2.45	1.91	2.59
Methane (CH <sub>4</sub> )	1 000 tons	0.98	0.93	0.83	0.64	0.75
Volatile organic compounds (VOC)	1 000 tons	0.18	0.20	0.19	0.14	0.19
– VOC from production processes	1 000 tons	0.08	0.09	0.10	0.07	0.09
<b>CO<sub>2</sub> emissions</b>						
Total CO <sub>2</sub> emissions	1 000 tons	708	738	668	533	689
– Direct emissions: energy consumption	1 000 tons	255	293	265	221	310
– Direct emissions: processes	1 000 tons	0	0	0	0	0
– Indirect emissions: electricity and district heating	1 000 tons	445	437	395	305	371
– Indirect emissions: business travel	1 000 tons	8	8	8	6	8
<b>Water and wastewater</b>						
Total water consumption	1 000 m <sup>3</sup>	2 835	2 867	2 779	2 286	2 812
– City water from public supply	1 000 m <sup>3</sup>	630	637	533	463	565
– Cooling/industrial water from own supply	1 000 m <sup>3</sup>	2 205	2 230	2 246	1 822	2 247
Wastewater volume	1 000 m <sup>3</sup>	874	948	888	787	879
<b>Waste and recycling</b>						
Total waste	1 000 tons	314	391	321	233	356
– Normal waste, recycling	1 000 tons	248	319	233	183	292
– Normal waste, landfill or incineration	1 000 tons	45	47	67	36	37
– Total hazardous waste	1 000 tons	21	25	21	14	27
– Hazardous waste, recycling	1 000 tons	14	17	13	9	15
– Hazardous waste, storage or incineration	1 000 tons	7	8	8	5	12
<b>Monetary values</b>						
Expenditure on environmental protection	million CHF	20	17	15	12	26
Energy cost	million CHF	140	152	138	120	216
Water and wastewater cost	million CHF	3	4	4	3	4
Waste disposal cost and recycling credits	million CHF	5	3	4	6	6

The environmental key figures include all Georg Fischer production companies.

## Financial key figures

Georg Fischer reports financial data in detail in its Annual Report 2012.  
The report can be downloaded from [www.georgfischer.com](http://www.georgfischer.com).

## Social performance indicators

	Unit	2012	2011	2010	2009	2008
<b>Employees</b>						
Headcount	Number	13 412	13 606	12 908	12 481	14 326
Part-time employees	Number	311	335	303	291	311
	Percentage	2.3	2.5	2.3	2.3	2.3
Female employees	Number	2 165	2 109	2 016	1 885	2 073
	Percentage	16.1	15.5	15.2	15.1	15.1
Women on management boards	Number	75	68	64	62	62
	Percentage of all members on management boards	12.1	11.1	10.4	10.4	10.0
Employees with disabilities	Number	247	240	239	271	278
	Percentage	1.8	1.8	1.8	2.2	2.0
Departures, total	Number	1 363	1 416	1 686	2 229	1 515
Departures for controllable reasons	Number	514	516	370	370	558
Employee fluctuation, total	Percentage	10.2	10.4	13.1	16.9	11.2
Employee fluctuation, controllable	Percentage	3.8	3.8	2.9	2.8	4.1
Employee surveys	Number of employees surveyed	6 500	11 400	5 200	2 800	5 000
	Number of companies surveyed	52	73	40	29	34
Investigated incidents of discrimination	Number	0	4	0	4	5
<b>Training and professional development</b>						
Employees participating in training	Number	11 000	10 800	8 600	6 700	8 900
	Percentage	82	79	67	51	66
Training days	Number	33 800	33 300	25 500	23 300	26 100
	Days per employee	2.5	2.4	2.0	1.8	1.9
Student interns	Number	152	133	156	109	129
Apprentices	Number	455	478	468	487	483
<b>Health and safety</b>						
Work-related accidents involving injury	Number	675	818	765	725	988
Accident rate	Accidents per 1 000 employees	50	61	60	55	73
Fatalities, work-related	Number	0	1	0	0	1
Absence days due to work-related accidents or illness	Number	10 500	10 400	11 900	10 800	11 000
	Percentage of total working days	0.33	0.32	0.39	0.37	0.36
Absence days, work-related and non-work-related	Number	146 000	143 000	140 000	138 000	141 000
	Percentage of total working days	4.6	4.4	4.6	4.7	4.6
<b>Community</b>						
Order volume from workshops employing disabled people	million CHF	3.0	3.5	2.6	2.0	2.4
Charitable donations	million CHF	2.2	2.2	1.7	1.6	2.7

The social key figures include all Georg Fischer companies with ten or more employees.

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The next report will be published in 2014.

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**Disclaimer**

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Cover: employee of Georg Fischer Ltd standing before Biophotonic Combined Energy System

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