



# ASPHALT IN FIGURES

## 2014

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EAPA is the European industry association which represents the manufacturers of bituminous mixtures, companies engaged in asphalt road construction as well as maintenance and it has the mission to promote the good use of asphalt in the creation and maintenance of a sustainable European road network. Conscious of the importance of providing information to the public, EAPA is pleased to present to you the data of 'Asphalt in Figures' for the year 2014.

Mr Ayberk Özcan  
President EAPA

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EUROPEAN ASPHALT  
PAVEMENT ASSOCIATION



## KEY FIGURES OF THE EUROPEAN ASPHALT INDUSTRY IN 2014

In this overview, between a number of European countries, data refer to asphalt production, application and the use of binders. Furthermore several reference data on the road in general are given. The data have been established with the assistance of the members of the European Asphalt Pavement Association, and are at the moment the best available and reliable for the asphalt industry.

A blank or 'no data' means no data are supplied or available, "...\*" figure not provided but estimated. All mass figures are in metric tonnes. EU-28 means all member states of the European Union (EU) except Cyprus, Bulgaria and Malta.

### TOTAL PRODUCTION TOTAL PRODUCTION OF HOT AND WARM MIX ASPHALT IN 2008 - 2014 (in million tonnes)

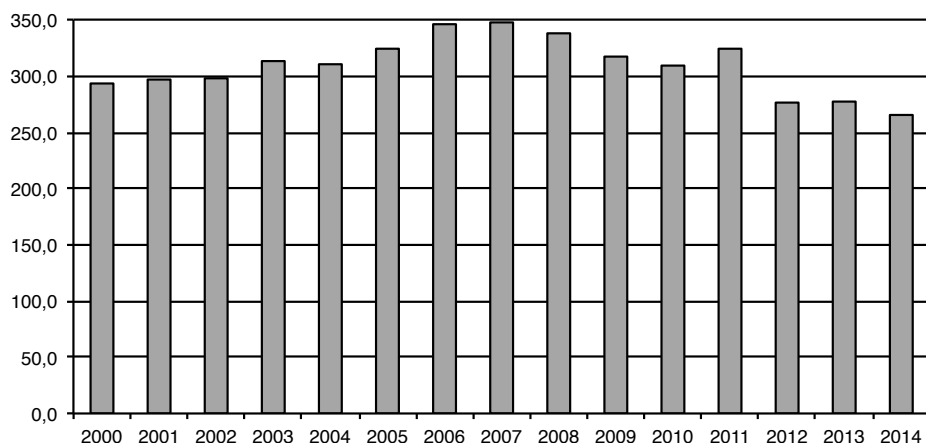
| Country        | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014  |
|----------------|------|------|------|------|------|------|-------|
| Austria        | 9,5  | 9,0  | 8,2  | 8,0  | 7,2  | 7,0  | 7,2   |
| Belgium        | 4,9  | 4,7  | 4,8  | 5,9  | 5,6  | 5,3  | 5,2   |
| Croatia        | 4,2  | 3,2  | 2,7  | 2,6  | 2,5  | 2,8  | 2,3   |
| Czech Republic | 7,3  | 7,0  | 6,2  | 5,8  | 5,6  | 5,4  | 6,4   |
| Denmark        | 3,1  | 2,7  | 3,2  | 4,0  | 3,6  | 3,7  | 3,7   |
| Estonia        | 1,5  | 1,2  | 1,1  | 1,3  | 1,1  | 1,2  | 1,3   |
| Finland        | 6,0  | 5,2  | 4,9  | 5,0  | 4,5  | 4,5  | 4,7   |
| France         | 41,8 | 40,1 | 38,8 | 39,2 | 35,3 | 35,4 | 31,9  |
| Germany        | 51,0 | 55,0 | 45,0 | 50   | 41   | 41,0 | 39,0  |
| Great Britain  | 25,0 | 20,5 | 21,5 | 22,4 | 18,5 | 19,2 | 20,6  |
| Greece         | 8,1  | 8,7  | 5,2  | 2,3  | 1,6  | 2,7  | 2,7*  |
| Hungary        | 2,5  | 1,6  | 3,4  | 2,3  | 2,5  | 2,7  | 3,8   |
| Iceland        | 0,4  | 0,3  | 0,2  | 0,2  | 0,2  | 0,2  | 0,3   |
| Ireland        | 2,8  | 3,3  | 2,3  | 1,8  | 1,9  | 1,8  | 1,8   |
| Italy          | 36,5 | 34,9 | 29,0 | 28   | 23,2 | 22,3 | 22,3* |
| Latvia         | 0,6* | 0,6* | 0,6* | 0,6* | 0,6* | 0,6* | 0,6*  |
| Lithuania      | 2,2  | 1,5  | 1,6  | 1,6  | 1,3  | 1,3* | 1,3*  |
| Luxembourg     | 0,6* | 0,6  | 0,7  | 0,65 | 0,61 | 0,7  | 0,7*  |
| Netherlands    | 9,3  | 9,8  | 9,5  | 9,6  | 9,2  | 9,7  | 9,0   |
| Norway         | 5,7  | 6,5  | 5,9  | 6,7  | 6,3  | 6,4  | 7,0   |
| Poland         | 15,0 | 18,0 | 18,0 | 26,5 | 21,1 | 18,2 | 18,2* |
| Portugal       | 9,0* | 9,0* | 6,7  | 6,4  | 6,4* | 6,4* | 6,4*  |
| Romania        | 3,3  | 3,6  | 3,2  | 3,6  | 3,2  | 4,1  | 4,5   |
| Serbia         |      |      |      |      |      |      | 1,3   |
| Slovakia       | 2,2* | 2,2  | 1,9  | 2,2  | 1,9  | 1,6  | 1,5   |
| Slovenia       | 2,6  | 2,3  | 1,8  | 1,3  | 1,1  | 1,2  | 1,4   |
| Spain          | 42,3 | 39,0 | 34,4 | 29,3 | 19,5 | 13,2 | 14,5  |
| Sweden         | 8,7  | 8,1  | 7,9  | 8,1  | 7,7  | 7,6  | 8,5   |
| Switzerland    | 5,3  | 5,4  | 5,3  | 5,4  | 4,8  | 4,8  | 6,5   |
| Turkey         | 26,6 | 23,1 | 35,3 | 43,5 | 38,4 | 46,2 | 30,9  |

|        |       |       |       |       |       |       |       |
|--------|-------|-------|-------|-------|-------|-------|-------|
| EU-28  | 300,0 | 291,6 | 262,6 | 268,5 | 226,7 | 219,7 | 219,4 |
| Europe | 338,0 | 326,9 | 309,3 | 324,3 | 276,4 | 277,3 | 265,4 |

|                  |       |       |      |      |       |       |       |
|------------------|-------|-------|------|------|-------|-------|-------|
| Australia        | 9,5   | 9,5*  | 7,5  |      | 8,8   |       | 9,1   |
| New Zealand      |       |       |      |      | 1,0   | 1,0   |       |
| Japan            | 49,6  | 49,6  | 44,7 | 45,6 | 47,3  | 49,9  | 45,0  |
| Ontario - Canada | 13,2* | 13,2* | 14   | 13,5 | 13,0  |       | 13,8  |
| USA              | 440   | 324   | 326  | 332  | 326,9 | 318,1 | 319,0 |
| South Africa     |       |       |      | 5,7  | 5,7   | 5,5   | 5,4   |
| South Korea      |       | 35,6  | 20,7 |      | 23,2  | 26,2  |       |

## GRAPH TOTAL PRODUCTION

TOTAL PRODUCTION OF HOT AND WARM MIX ASPHALT IN EUROPE  
(in million tonnes)



## SURFACE, BINDER AND BASE COURSE

APPLICATION IN SURFACE, BINDER AND BASE COURSES  
IN % OF TOTAL ANNUAL HOT AND WARM MIX PRODUCTION

| Country        | Surface course | Binder course | Base course |
|----------------|----------------|---------------|-------------|
| Austria        | 30             | 10            | 60          |
| Belgium        | 51             | 0             | 49          |
| Croatia        | 61             | 2             | 33          |
| Czech Republic | 57             | 20            | 23          |
| Denmark        | 47             | 8             | 45          |
| Estonia        | 66             | 27            | 7           |
| Finland        | 90             | 0             | 10          |
| France         | No data        | No data       | No data     |
| Germany        | 30             | 19            | 51          |
| Great Britain  | No data        | No data       | No data     |
| Greece         | 87             | 10            | 3           |
| Hungary        | 66             | 19            | 15          |
| Iceland        | 95             | 5             | 0           |
| Ireland        | No data        | No data       | No data     |
| Luxembourg     | 35             | 60            | 5           |
| Netherlands    | 35             | 10            | 55          |
| Norway         | 80             | 10            | 10          |
| Romania        | 21             | 33            | 46          |
| Serbia         | 35             | 0             | 65          |
| Slovakia       | 60             | 24            | 16          |
| Slovenia       | 58             | 3             | 39          |
| Spain          | 66             | 22            | 12          |
| Sweden         | 55             | 25            | 20          |
| Switzerland    | 25             | 10            | 65          |
| Turkey         | 34             | 30            | 36          |

|                  |         |         |         |
|------------------|---------|---------|---------|
| Japan            | 81      | 12      | 7       |
| Ontario - Canada | 55      | 10      | 35      |
| South Africa     | No data | No data | No data |

## COMPANIES

COMPANIES IN THE ASPHALT INDUSTRY IN 2014

| Country        | Production only | Production & Laying | Laying only |
|----------------|-----------------|---------------------|-------------|
| Austria        | No data         | 67                  | No data     |
| Belgium        | 12              | 20                  | No data     |
| Croatia        | 6               | 30                  | 10          |
| Czech Republic | 22              | 29                  | >40         |
| Denmark        | 0               | 6                   | ~10         |
| Estonia        | 1               | 6                   | 11          |
| Finland        | 0               | 10                  | 15          |
| France         | 0               | 30                  | 1415        |
| Germany        | 260             | 150                 | 3000        |
| Great Britain  | 19              | 24                  | >100        |
| Greece         | No data         | 200*                | 3*          |
| Hungary        | 1               | 31                  | 25          |
| Iceland        | 1               | 4                   | 10          |
| Ireland        | 18              | 18                  | 22          |
| Italy          | 30*             | 500*                | >2500*      |
| Lithuania      | No data         | 20*                 | No data     |
| Luxembourg     | No data         | 4                   | 0           |
| Netherlands    | No data         | 20                  | No data     |
| Norway         | 7               | 12                  | No data     |
| Poland         | 4*              | 260*                | 155*        |
| Portugal       | 10*             | 16*                 | 60*         |
| Romania        | 12              | 16                  | 8           |
| Serbia         | 33              | 33                  | 33          |
| Slovakia       | 2               | 14                  | 20          |
| Slovenia       | 14              | 13                  | 50          |
| Spain          | 7               | 134                 | 220         |
| Sweden         | 0               | 11                  | 80          |
| Switzerland    | 40              | 40                  | >400        |
| Turkey         | 11              | 257                 | ~100        |

|        |       |        |         |
|--------|-------|--------|---------|
| EU-28  | > 418 | > 1629 | > 7.744 |
| Europe | > 510 | > 1975 | > 8.287 |

|                |         |     |         |
|----------------|---------|-----|---------|
| Japan          | No data | 717 | No data |
| Ontario-Canada | No data | 49  | 100     |
| South Africa   | 8       | 9   | 18      |

## SURFACE COURSES

### SURFACE COURSES WITH ASPHALT CONCRETE EN 13108-1

| Country        | % of total annual hot & warm mix asphalt production in 2014 | In 2014 applied area in million m2 |
|----------------|-------------------------------------------------------------|------------------------------------|
| Austria        | 28,4                                                        | No data                            |
| Belgium        | 32,0                                                        | No data                            |
| Croatia        | 56,0                                                        | 12,7                               |
| Czech Republic | 50,6                                                        | 21,0                               |
| Denmark        | 32,0                                                        | 16,3                               |
| Estonia        | 58,6                                                        | No data                            |
| Finland        | 74,0                                                        | No data                            |
| France         | No data                                                     | No data                            |
| Germany        | 19,0                                                        | No data                            |
| Hungary        | 62,0                                                        | 19,2                               |
| Iceland        | 94,0                                                        | 1,3                                |
| Luxembourg     | 17,0                                                        | 1,2                                |
| Netherlands    | 16,0                                                        | No data                            |
| Norway         | 64,0                                                        | 0,9                                |
| Romania        | 12,5                                                        | 4,3                                |
| Serbia         | 75,0                                                        | 2,6                                |
| Slovakia       | 57,0                                                        | 6,7                                |
| Slovenia       | 54,0                                                        | 13,0                               |
| Spain          | 52,0                                                        | No data                            |
| Sweden         | 25,0                                                        | 30,0                               |
| Switzerland    | 19,0                                                        | 12,8                               |
| Turkey         | 31,5                                                        | No data                            |

|       |         |      |
|-------|---------|------|
| Japan | No data | 51,7 |
|-------|---------|------|

### SURFACE COURSES WITH STONE MASTIC ASPHALT EN 13108-5

| Country        | % of total annual hot & warm mix asphalt production in 2014 | In 2014 applied area in million m2 |
|----------------|-------------------------------------------------------------|------------------------------------|
| Austria        | 1,5                                                         | No data                            |
| Belgium        | 13,3                                                        | 8,3                                |
| Croatia        | 4,0                                                         | 1,0                                |
| Czech Republic | 5,2                                                         | 3,1                                |
| Denmark        | 15,0                                                        | 6,9                                |
| Estonia        | 7,1                                                         | No data                            |
| Finland        | 13,0                                                        | No data                            |
| France         | No data                                                     | No data                            |
| Germany        | 10,0                                                        | No data                            |
| Hungary        | 3,7                                                         | 3,1                                |
| Iceland        | 6,0                                                         | 0,1                                |
| Luxembourg     | 15,5                                                        | 1,1                                |
| Netherlands    | 10,0                                                        | No data                            |
| Norway         | 8,0                                                         | 0,1                                |
| Romania        | 5,0                                                         | 1,8                                |
| Serbia         | 25,0                                                        | 0,9                                |
| Slovakia       | 3,0                                                         | 0,5                                |
| Slovenia       | 3,5                                                         | 6,8                                |
| Spain          | 0,3                                                         | No data                            |
| Sweden         | 25,0                                                        | 28,0                               |
| Switzerland    | 2,0                                                         | 1,8                                |
| Turkey         | 2,5                                                         | No data                            |

|       |         |     |
|-------|---------|-----|
| Japan | No data | 0,8 |
|-------|---------|-----|

### SURFACE COURSES WITH BITUMEN EN 13108-2

| Country        | % of total annual hot & warm mix asphalt production in 2014 | In 2014 applied area in million m2 |
|----------------|-------------------------------------------------------------|------------------------------------|
| Belgium        | 2,5                                                         | 1,77                               |
| Croatia        | 1,0                                                         | 0,30                               |
| Czech Republic | 0,4                                                         | 0,60                               |
| France         | No data                                                     | No data                            |
| Hungary        | 0,2                                                         | 0,10                               |
| Romania        | 3,5                                                         | 5,00                               |
| Spain          | 4,3                                                         | No data                            |

|       |         |      |
|-------|---------|------|
| Japan | No data | 0,02 |
|-------|---------|------|

### SURFACE COURSES WITH SOFT ASPHALT EN 13108-3

| Country | % of total annual hot & warm mix asphalt production in 2014 | In 2014 applied area in million m2 |
|---------|-------------------------------------------------------------|------------------------------------|
| Finland | 2,5                                                         | No data                            |
| Norway  | 8,0                                                         | 0,1                                |
| Sweden  | 5,0                                                         | 5,0                                |

### SURFACE COURSES WITH HOT ROLLED ASPHALT EN 13108-4

| Country     | % of total annual hot & warm mix asphalt production in 2014 | In 2014 applied area in million m2 |
|-------------|-------------------------------------------------------------|------------------------------------|
| Switzerland | 0,5                                                         | 0,3                                |

|       |         |      |
|-------|---------|------|
| Japan | No data | 0,01 |
|-------|---------|------|

### SURFACE COURSES WITH POROUS ASPHALT EN 13108-7

| Country        | % of total annual hot & warm mix asphalt production in 2014 | In 2014 applied area in million m2 |
|----------------|-------------------------------------------------------------|------------------------------------|
| Belgium        | 0,50                                                        | 0,31                               |
| Czech Republic | 0,10                                                        | 0,10                               |
| Denmark        | 0,26                                                        | 0,20                               |
| Estonia        | 0,04                                                        | No data                            |
| France         | No data                                                     | No data                            |
| Germany        | No data                                                     | No data                            |
| Luxembourg     | 0,50                                                        | 0,015                              |
| Netherlands    | 9,00                                                        | No data                            |
| Slovenia       | 0,50                                                        | 0,10                               |
| Spain          | 0,03                                                        | No data                            |
| Sweden         | No data                                                     | 0,50                               |
| Switzerland    | 1,50                                                        | 1,01                               |

|       |      |      |
|-------|------|------|
| Japan | 3,00 | 5,97 |
|-------|------|------|

### SURFACE COURSES WITH MASTIC ASPHALT EN 13108-6

| Country        | % of total annual hot & warm mix asphalt production in 2014 | In 2014 applied area in million m2 |
|----------------|-------------------------------------------------------------|------------------------------------|
| Austria        | 0,10                                                        | No data                            |
| Belgium        | 0,50                                                        | No data                            |
| Czech Republic | 0,70                                                        | 0,30                               |
| Estonia        | 0,01                                                        | No data                            |
| Finland        | 0,50                                                        | No data                            |
| France         | 0,06                                                        | 3,8                                |
| Germany        | 1,00                                                        | No data                            |
| Hungary        | 0,10                                                        | 0,07                               |
| Serbia         | 5,0                                                         | 0,20                               |
| Slovenia       | 0,03                                                        | No data                            |
| Sweden         | No data                                                     | 1,00                               |
| Switzerland    | 2,0                                                         | 1,40                               |
| Japan          | No data                                                     | 0,35                               |

## WARM MIX ASPHALT (WMA)

### PRODUCTION OF WARM MIX ASPHALT IN 2013 AND 2014 (100-150°C)

For this table Warm Mix Asphalt is defined as mixtures produced by using special techniques and/ or additives to reduce the production temperature. The production temperature is between 100°C and 150°C.

| Country        | 2013 (million tonnes) | 2014 (million tonnes) |
|----------------|-----------------------|-----------------------|
| Austria        | 0,000                 | 0,000                 |
| Belgium        | No data               | No data               |
| Croatia        | 0,000                 | 0,040                 |
| Czech Republic | 0,030                 | 0,001                 |
| Denmark        | 0,120                 | 0,200                 |
| Finland        | 0,000                 | 0,120                 |
| France         | 3,550                 | 4,023                 |
| Germany        | No data               | No data               |
| Great Britain  | <1,000                | <1,000                |
| Hungary        | 0,020                 | 0,038                 |
| Luxembourg     | 0,000                 | 0,007                 |
| Netherlands    | 0,060                 | 0,133                 |
| Norway         | 0,380                 | 0,540                 |
| Slovenia       | 0,000                 | 0,000                 |
| Spain          | 0,086                 | 0,140                 |
| Sweden         | 0,500                 | 0,700                 |
| Switzerland    | 0,870                 | 0,388                 |

|                |         |         |
|----------------|---------|---------|
| USA            | 69,000  | 103,000 |
| Japan          | 0,152   | 0,231   |
| Ontario-Canada | No Data | 0,750   |
| South Africa   | 0,150   | 0,150   |



## ASPHALT IN FIGURES 2014

# HALF WARM MIX, COLD BITUMINOUS MIXTURES AND SURFACE APPLICATIONS

### HALF WARM MIX ASPHALT (50-100° C)

| Country     | 2014<br>(million tonnes) |
|-------------|--------------------------|
| France      | No data                  |
| Hungary     | 0,030                    |
| Spain       | 0,005                    |
| Sweden      | 0,400                    |
| Switzerland | 0,013                    |

### COLD BITUMINOUS MIXTURES (BELOW 50° C)

| Country        | 2011 (tonnes) | 2012 (tonnes) | 2013 (tonnes) | 2014 (tonnes) |
|----------------|---------------|---------------|---------------|---------------|
| Austria        | 20.000        | 20.000        | 30.000        | No data       |
| Belgium        | 33.000        | 27.000        | 30.000        | No data       |
| Croatia        | 21.000        | 23.000        | 32.000        | No data       |
| Czech Republic | 9.907         | 4.421         | 9.570         | 4.000         |
| France         | 1.600.000     | 1.460.000     | 1.550.000     | 1.418.000     |
| Germany        |               |               |               | No data       |
| Great Britain  |               |               |               | No data       |
| Hungary        | 40.000        | 15.400        | 58.800        | 40.000        |
| Iceland        | No data       |               |               | 10.000        |
| Ireland        | No data       |               |               |               |
| Luxembourg     | 0             | 2.000         | 10.000        | No data       |
| Netherlands    |               | 20.000        | 0             |               |
| Norway         | 37.000        | 6.000         | 20.000        | 30.000        |
| Romania        | 13.000        | 2.000         | 2.625         | No data       |
| Slovakia       | 3.000         | 0             |               | 0             |
| Slovenia       |               |               | 26.000        |               |
| Spain          | 200.000       | 92.400        | 86.700        | 150.000       |
| Sweden         | 60.000        | 90.000        | 90.000        | 100.000       |
| Switzerland    | 740.000       | 710.000       | 830.000       | 25.000        |
| Turkey         | 1.020.000     | 1.818.000     | 1.050.000     | 938.000       |

|       |        |         |         |         |
|-------|--------|---------|---------|---------|
| Japan | 95.000 | 105.000 | 114.000 | 124.000 |
|-------|--------|---------|---------|---------|

### APPLICATION OF SLURRY SEAL (SS) & MICRO-SURFACING (MS) / SURFACE DRESSING (SD)

| Country        | SS&MS<br>2014 | Trend<br>'13/'14 | SD<br>2014 |
|----------------|---------------|------------------|------------|
| Austria        | No data       | =                | No data    |
| Croatia        | 0,70          | No data          | 0,00       |
| Czech Republic | 0,90          | < less           | 1,80       |
| Denmark        | 0,00          | =                | 6,70       |
| Estonia        | 0,00          | <                | 12,70      |
| Finland        | No data       | =                | 0,79       |
| France         | 51,00         | >                | 197,00     |
| Germany        | No data       | No data          | No data    |
| Great Britain  | No data       | No data          | No data    |
| Hungary        | 0,00          | No data          | 0,00       |
| Iceland        | 0,10          | =                | 2,00       |
| Ireland        | No data       | No data          | No data    |
| Luxembourg     | 0,03          | =                | 0,30       |
| Norway         | No data       | No data          | No data    |
| Romania        | No data       | No data          | No data    |
| Slovakia       | 0,60          | <                | 0,00       |
| Slovenia       | 0,01          | No data          | 0,01       |
| Spain          | 19,30         | =                | 2,30       |
| Sweden         | 0,50          | <                | 14,00      |
| Switzerland    | 1,00          | >                | No data    |
| Turkey         | 0,10          | <                | 203,80     |

|       |      |         |      |
|-------|------|---------|------|
| Japan | 0,00 | No data | 0,00 |
|-------|------|---------|------|

## REUSE AND RECYCLING RECYCLING IN 2014

| Country        | All available<br>Reclaimed Asphalt<br>in 2014 | % of available reclaimed asphalt used in |                                |                                     |                  |                     |                                            |                                                     | Applied area in m <sup>2</sup> of<br>hot reuse of existing<br>asphalt pavement<br>material in-situ / on the road<br>(Remixing, Repaving,<br>Reshaping, Road Train<br>etc.) | The amount of "only"<br>reheated (reused)<br>asphalt material<br>in-situ / on the road<br>(Remixing, Repaving,<br>Reshaping, Road Train<br>etc.) in metric tonnes |
|----------------|-----------------------------------------------|------------------------------------------|--------------------------------|-------------------------------------|------------------|---------------------|--------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                |                                               | Hot Mix Asphalt<br>Production            | Warm Mix Asphalt<br>Production | Half Warm Mix<br>Asphalt Production | Cold Recycling** | Unbound Road Layers | Other Civil<br>Engineering<br>Applications | Put to Landfill /<br>Other Applications/<br>Unknown |                                                                                                                                                                            |                                                                                                                                                                   |
| Austria        | 1.500.000                                     | No data                                  | No data                        | No data                             | No data          | No data             | No data                                    | No data                                             |                                                                                                                                                                            |                                                                                                                                                                   |
| Belgium        | 1.500.000                                     | 72                                       | No data                        | No data                             | No data          | No data             | No data                                    | No data                                             |                                                                                                                                                                            |                                                                                                                                                                   |
| Czech Republic | 1.600.000                                     | 16                                       | 0                              | 0                                   | 30               | 20                  | 10                                         | 24                                                  | 178.400                                                                                                                                                                    |                                                                                                                                                                   |
| Croatia        | 170.000                                       | 24                                       | 5                              | No data                             | 19               | 10                  | No data                                    | No data                                             |                                                                                                                                                                            |                                                                                                                                                                   |
| Denmark        | ~1.300.000                                    | 54                                       | 0                              | 0                                   | 0                | 11                  | 0                                          | 35                                                  |                                                                                                                                                                            |                                                                                                                                                                   |
| Estonia        | No data                                       | No data                                  | No data                        | No data                             | No data          | No data             | No data                                    | No data                                             |                                                                                                                                                                            |                                                                                                                                                                   |
| Finland        | 1.000.000                                     | 100                                      | 0                              | 0                                   | 0                | 0                   | 0                                          | 0                                                   | 9.243.000                                                                                                                                                                  |                                                                                                                                                                   |
| France         | 7.000.000                                     | 64                                       | No data                        | No data                             | No data          | No data             | No data                                    | No data                                             | 637.450                                                                                                                                                                    | 114.700                                                                                                                                                           |
| Germany        | 10.900.000                                    | 90                                       | 0                              | 0                                   | 0                | 10                  | 0                                          | 0                                                   |                                                                                                                                                                            |                                                                                                                                                                   |
| Great Britain  | 3.350.000                                     | 52                                       | 18                             | 0                                   | 5                | 0                   | 25                                         | 0                                                   |                                                                                                                                                                            |                                                                                                                                                                   |
| Hungary        | 20.000                                        | 80                                       | 10                             | 0                                   | 0                | 10                  | 0                                          | 0                                                   |                                                                                                                                                                            |                                                                                                                                                                   |
| Iceland        | 15.000                                        | No data                                  | No data                        | No data                             | No data          | No data             | No data                                    | No data                                             | 60.000                                                                                                                                                                     |                                                                                                                                                                   |
| Ireland        | No data                                       | No data                                  | No data                        | No data                             | No data          | No data             | No data                                    | No data                                             |                                                                                                                                                                            |                                                                                                                                                                   |
| Luxembourg     | 285.000                                       | 85                                       | 5                              | 0                                   | 10               | 0                   | 0                                          | 0                                                   |                                                                                                                                                                            |                                                                                                                                                                   |
| Netherlands    | 4.500.000                                     | 67                                       | 3                              | 0                                   | 15               | 0                   | 0                                          | 15                                                  |                                                                                                                                                                            |                                                                                                                                                                   |
| Norway         | 837.410                                       | 20                                       | 0                              | 0                                   | 3                | 64                  | 9                                          | 4                                                   |                                                                                                                                                                            |                                                                                                                                                                   |
| Romania        | 20.000                                        | 40                                       | 0                              | 25                                  | 25               | 5                   | 5                                          | 0                                                   |                                                                                                                                                                            |                                                                                                                                                                   |
| Slovakia       | 30.000                                        | 98                                       | 0                              | 0                                   | 1                | 1                   | 0                                          | 0                                                   | 60.000                                                                                                                                                                     | 7.500                                                                                                                                                             |
| Slovenia       | 40.000                                        | 25                                       | 0                              | 0                                   | 0                | 75                  | 0                                          | 0                                                   |                                                                                                                                                                            |                                                                                                                                                                   |
| Spain          | 390.000                                       | 95                                       | 2                              | 3                                   | 0                | 0                   | 0                                          | 0                                                   |                                                                                                                                                                            |                                                                                                                                                                   |
| Sweden         | 1.200.000                                     | 75                                       | 5                              | 5                                   | 5                | 10                  | 0                                          | 0                                                   | 4.000.000                                                                                                                                                                  | 320.000                                                                                                                                                           |
| Switzerland    | 1.000.000                                     | 52                                       | 10                             | 1                                   | 2                | 33                  | 0                                          | 2                                                   | 0                                                                                                                                                                          | 0                                                                                                                                                                 |
| Turkey         | 2.340.000                                     | 6                                        | 0                              | 0                                   | 0                | 94                  | 0                                          | 0                                                   |                                                                                                                                                                            |                                                                                                                                                                   |

|                |            |         |         |         |         |         |         |         |  |  |
|----------------|------------|---------|---------|---------|---------|---------|---------|---------|--|--|
| Japan          | No data    | No data | No data | No data | No data | No data | No data | No data |  |  |
| U.S.A.         | 68.700.000 | 95      | No data | No data | No data | No data | No data | No data |  |  |
| Ontario-Canada | 2.800.000  | 95      | No data | No data | No data | No data | No data | No data |  |  |

\*\* Cold recycling includes stabilisation with bitumen emulsion, foamed bitumen and/ or cement.

## BITUMEN

### CONSUMPTION OF BITUMEN IN THE ROAD INDUSTRY (in million tonnes)

| Country        | Tonnage<br>in 2014 | % Modified bitumen (of total) |         |         |         |         | Emulsions<br>in 2014 |
|----------------|--------------------|-------------------------------|---------|---------|---------|---------|----------------------|
|                |                    | in 2011                       | in 2012 | in 2013 | in 2014 |         |                      |
| Austria        | 0,37               | 25,0                          | 25,0    | 30,0    | 18,9    | 0,005   |                      |
| Belgium        | 0,21               | 25,5                          | 27,0    | 25,4    | 26,5    | No data |                      |
| Croatia        | 0,13               | No data                       | No data | No data | 10,00   | No data |                      |
| Czech Republic | 0,33               | 18,0                          | 22,4    | 22,1    | 21,5    | 0,008   |                      |
| Denmark        | 0,19               | 5,0                           | 5,0     | 5,0     | 5,0     | 0,020   |                      |
| Estonia        | 0,08               | No data                       | No data | 4,0     | 3,3     | 0,016   |                      |
| Finland        | 0,27               | 0                             | No data | 0       | 0       | 0,001   |                      |
| France         | 2,47               | <10                           | 13,0    | 13,0    | 6,9     | 0,792   |                      |
| Germany        | 1,60               | No data                       | No data | No data | No data | No data |                      |
| Great Britain  | 1,28               | 8,0                           | 8,0     | 8,0     | 8,0     | 0,100   |                      |
| Greece         |                    | 2,0                           | 1,5     | 2,2     |         |         |                      |
| Hungary        | 0,19               | 11,0                          | 15,4    | 30,0    | 25,0    | 0,0     |                      |
| Iceland        | No data            | No data                       | No data | No data | 0,0     | 0,0     |                      |
| Ireland        | 0,13               | No data                       | No data | No data | No data | 0,0     |                      |
| Italy          |                    | 14,0                          | 13,0    | 14,0    |         |         |                      |
| Lithuania      |                    | 14,0                          | 11,0    |         |         |         |                      |
| Luxembourg     | 0,05               | 20,0                          | 30,0    | No data | 15,0    | No data |                      |
| Netherlands    | 0,30               | No data                       | No data | 5,0     | No data | No data |                      |
| Norway         | 0,35               | 15,0                          | No data | No data | No data | No data |                      |
| Poland         |                    | 21,0                          | 22,0    | 25,0    |         |         |                      |
| Romania        | 0,20               | 74,0                          | 45,0    | 76,0    | 75,0    | 0,0     |                      |
| Serbia         | 0,26               | 14,7                          | 6,0     | 4,2     | 4,4     | No data |                      |
| Slovakia       | 0,08               | 60,0                          | 37,0    | 31,0    | 29,1    | 0,0     |                      |
| Slovenia       | 0,07               | 10,0                          | 11,0    | 9,0     | 10,0    | No data |                      |
| Spain          | 0,56               | 13,1                          | 19,6    | 10,0    | 15,0    | 0,1     |                      |
| Sweden         | 0,45               | 6,0                           | 5,0     | No data | 7,0     | 0,0     |                      |
| Switzerland    | 0,28               | 10,0                          | 11,0    | 2,0     | 12,0    | 0,0     |                      |
| Turkey         | 2,39               | 8,0                           | 7,5     | 4,4     | 3,2     | 0,026   |                      |

## PRODUCTION SITES

### NUMBER OF PRODUCTION SITES

| Country           | Stationary Plants |      |      | Mobile plants |         |         | All plants that are<br>fit for hot and warm<br>recycling**** |         |         |
|-------------------|-------------------|------|------|---------------|---------|---------|--------------------------------------------------------------|---------|---------|
|                   | 2012              | 2013 | 2014 | 2012          | 2013    | 2014    | 2012                                                         | 2013    | 2014    |
| Austria           | 112               | 113  | 114  | 1             | 1       |         | 80*                                                          | 75      | 90      |
| Belgium           | 38                | 38   | 58   | 0             | 0       | 0       | 28                                                           | 28      | 28      |
| Croatia           | 52                | 55   | 55   | 3             | 3       | 2       | 5                                                            | 6       | 10      |
| Czech Republic    | 105               | 101  | 101  | 2             | 2       | 2       | 70                                                           | 70      | 70      |
| Denmark           | 40                | 38   | 38   | 3             |         |         | 38                                                           | 36      | 36      |
| Estonia           | 10                | 9    | 9    | 13            | 11      | 10      | 11                                                           | 13      | 13      |
| Finland           | 52                | 59   | 50   | 20            | 22      | 23      | 55                                                           | 62      | 62      |
| France **         | 438               | 434  | 430  | 67            | 62      | 57      | > 300                                                        | > 300   | > 300   |
| Germany           | 635               | 630  | 615  | No data       | No data | No data | 610                                                          | 605     | 600     |
| Great Britain *** | 250               | 240  | 245  | No data       | No data | No data | No data                                                      | No data | 130     |
| Greece ***        | 155               | 195  | 195* | 5             | 3       | 3*      | 1                                                            | 1       | 1*      |
| Hungary           | 84                | 85   | 87   | 5             | 5       | 6       | 40                                                           | 42      | 48      |
| Iceland ***       | 4                 | 4    | 4    | 4             | 4       | 4       | 2                                                            | 2       | 2       |
| Ireland           | 37                | 37   | 37   | No data       | 0       | No data | 3                                                            | 2       | No data |
| Italy             | 640               | 640  | 640* | 10            | 10      | 10*     | 300                                                          | 300     | 300*    |
| Lithuania         | 38                | 38*  | 38*  | 3             | 3*      | 3*      | 24                                                           | 24*     | 24*     |
| Luxembourg        | 4                 | 4    | 4    | 0             | 0       | 0       | 2                                                            | 4       | 4       |
| Netherlands       | 41                | 41   | 38   | 1             | 0       | 2       | 40                                                           | 40      | 38      |
| Norway            | 85                | 85   | 85   | 10            | 10      | 10      | 25                                                           | 40      | 3       |
| Poland            | 300               | 300  | 300* | 35            | 35      | 35*     | 4                                                            | 4       | 4*      |
| Portugal          | 25*               | 25*  | 25*  | 25*           | 25*     | 25*     | 15*                                                          | 15*     | 15*     |
| Romania           | 8                 | 49   | 50   | 2             | 9       | 10      | 8                                                            | 8       | 10      |
| Serbia            |                   |      | 31   |               |         | 2       |                                                              |         | 15      |
| Slovakia          | 54                | 51   | 46   | 0             | 0       | 0       | 22                                                           | No data | 32      |
| Slovenia          | 13                | 18   | 16   | 1             | 1       | No data | 8                                                            | 8       | No data |
| Spain             | 295               | 243  | 243  | 80            | 75      | 75      | 87                                                           | 37      | 16      |
| Sweden            | 87                | 87   | 87   | 10            | 8       | 8       | 80                                                           | 90      | 90      |
| Switzerland       | 142               | 147  | 142  | 2             | 2       | 5       | 78                                                           | 83      | 80      |
| Turkey ***        | 225               | 176  | 104  | 437           | 462     | 449     | 10                                                           | 10      | 12      |

|        |       |       |       |     |     |     |        |        |        |
|--------|-------|-------|-------|-----|-----|-----|--------|--------|--------|
| EU-28  | 3.513 | 3.530 | 3.521 | 286 | 275 | 271 | > 1751 | > 1770 | > 1921 |
| Europe | 3.969 | 3.942 | 3.887 | 739 | 753 | 741 | > 1946 | > 1905 | > 2033 |

|                  |       |         |       |    |         |    |     |         |     |
|------------------|-------|---------|-------|----|---------|----|-----|---------|-----|
| Australia***     | 137   |         |       | 32 |         |    |     |         |     |
| Japan            | 1.160 | 1.146   | 1.149 | 5  | 4       | 11 | 979 | 974     | 977 |
| New Zealand      | 50    | 50      |       | 6  | 6       |    |     |         |     |
| Ontario - Canada | 140   | No data | 114   | 22 | No data | 5  | 135 | No data | 100 |
| South Africa     | 28    | 33      | 29    | 23 | 25      | 24 | 32  | 31      | 34  |
| South Korea      | 471   |         |       |    |         |    |     |         |     |

- \*\* One or more plants are operated and owned by the road administration
- \*\*\* One or more plants are operated and owned by the road administration and/ or municipalities
- \*\*\*\* This can be all types, e.g. batch plants and/ or drum mixer plants and/ or plants with parallel drum.

### INTERESTING SITES ON THE INTERNET

|                                                                            |                                                          |
|----------------------------------------------------------------------------|----------------------------------------------------------|
| <a href="http://www.eapa.org">www.eapa.org</a>                             | European Asphalt Pavement Association                    |
| <a href="http://www.sdruzeni-silnice.cz">www.sdruzeni-silnice.cz</a>       | Road Contractors Association Prague                      |
| <a href="http://www.asfaltindustrien.dk">www.asfaltindustrien.dk</a>       | Danish Asphalt Pavement Association                      |
| <a href="http://www.vbwasfalt.nl">www.vbwasfalt.nl</a>                     | Dutch Asphalt Pavement Association                       |
| <a href="http://www.asfaldiliit.ee">www.asfaldiliit.ee</a>                 | Estonian Asphalt Pavement Association                    |
| <a href="http://www.infrary.Ü">www.infrary.Ü</a>                           | Infra Contractors' Association                           |
| <a href="http://www.usirf.com">www.usirf.com</a>                           | L'Union des Syndicats de l'industrie Routière Française  |
| <a href="http://www.asphalt.de">www.asphalt.de</a>                         | German Asphalt Association                               |
| <a href="http://www.gestrata.at">www.gestrata.at</a>                       | Gestrata                                                 |
| <a href="http://www.hapa.hu">www.hapa.hu</a>                               | Hungarian Asphalt Pavement Association                   |
| <a href="http://www.siteb.it">www.siteb.it</a>                             | Italian Asphalt Association                              |
| <a href="http://www.ebanett.no">www.ebanett.no</a>                         | EBA - Norwegian Contractors Association                  |
| <a href="http://www.pswana.pl">www.pswana.pl</a>                           | Polish Asphalt Pavement Association                      |
| <a href="http://www.apdp.ro">www.apdp.ro</a>                               | Professional Association of Roads and Bridges of Romania |
| <a href="http://www.mischgut-industrie.ch">www.mischgut-industrie.ch</a>   | Schweizerische Mischgut-Industrie                        |
| <a href="http://www.saaav.sk">www.saaav.sk</a>                             | Slovakian Asphalt Pavement Association                   |
| <a href="http://www.zdruzenje-zas.si">www.zdruzenje-zas.si</a>             | Slovenian Asphalt Pavement Association                   |
| <a href="http://www.asefma.es">www.asefma.es</a>                           | Spanish Asphalt Association                              |
| <a href="http://www.asmud.org.tr">www.asmud.org.tr</a>                     | Turkish Asphalt Contractors Association                  |
| <a href="http://www.mineralsproducts.org">www.mineralsproducts.org</a>     | UK Minerals Products Association                         |
| <a href="http://www.amaac.org.mx">www.amaac.org.mx</a>                     | Asociacion Mexicana del Asfaltto, A.C                    |
| <a href="http://www.malbik.is">www.malbik.is</a>                           | Hofdi Asphalt Plant                                      |
| <a href="http://www.colas.is">www.colas.is</a>                             | Colas Iceland                                            |
| <a href="http://www.vegagerdin.is">www.vegagerdin.is</a>                   | Icelandic Road Administration                            |
| <a href="http://www.pch.public.lu">www.pch.public.lu</a>                   | L'administration des Ponts et Chaussées Luxembourg       |
| <a href="http://www.eurobitume.eu">www.eurobitume.eu</a>                   | European Bitumen Association                             |
| <a href="http://www.oecd.org/cem">www.oecd.org/cem</a>                     | World Economic Organisation                              |
| <a href="http://www.piar.org/en">www.piar.org/en</a>                       | World Road Congress                                      |
| <a href="http://www.lra.lt">www.lra.lt</a>                                 | Lithuanian Road Administration                           |
| <a href="http://www.h-a-d.hr">www.h-a-d.hr</a>                             | Croatian Asphalt Association                             |
| <a href="http://www.asphaltpavement.org">www.asphaltpavement.org</a>       | US National Asphalt Pavement Association                 |
| <a href="http://www.aapa.asn.au">www.aapa.asn.au</a>                       | Australian Asphalt Pavement Association                  |
| <a href="http://www.ohmpa.org">www.ohmpa.org</a>                           | Ontario Hot Mix Producers Association                    |
| <a href="http://www.sabita.org">www.sabita.org</a>                         | South African Asphalt and Bitumen Association            |
| <a href="http://www.dohkenkyo.or.jp">www.dohkenkyo.or.jp</a>               | Japan Road Contractors Association                       |
| <a href="http://www.civilcontractors.co.nz">www.civilcontractors.co.nz</a> | Civil Contractors New Zealand Inc.                       |
| <a href="http://www.highway.rs">www.highway.rs</a>                         | Highway Institute Serbia                                 |



## ASPHALT IN FIGURES 2014

### MEMBERS

|                                |                                    |                                                 |                                            |
|--------------------------------|------------------------------------|-------------------------------------------------|--------------------------------------------|
|                                |                                    |                                                 |                                            |
| Asefma                         | Asfaltindustrien                   | ASMUD - Turkish Asphalt Contractors Association | DAV - Deutscher Asphalt Verband e.V.       |
|                                |                                    |                                                 |                                            |
| EBA                            | Eesti Asfaltliit                   | HAPA - Hungarian Asphalt Pavement Association   | IAPA - Irish Asphalt Pavement Association  |
|                                |                                    |                                                 |                                            |
| Infra Contractors' Association | MPA - Mineral Products Association | NCC AB                                          | PAPA - Polish Asphalt Pavement Association |
|                                |                                    |                                                 |                                            |
| Peab Asphalt AB                | Sdružení pro výstavbu silnic Praha | USIRF - Routes de France                        | ZAS - Združenje asfaltnih Slovenije        |

### ASSOCIATE MEMBERS

|                              |                                  |                                  |                  |                                   |
|------------------------------|----------------------------------|----------------------------------|------------------|-----------------------------------|
|                              |                                  |                                  |                  |                                   |
| ABZ-1                        | Amman Group                      | Antico International Inc.        | Arizona Chemical | ASTEC                             |
|                              |                                  |                                  |                  |                                   |
| Benninghoven                 | BTC Europe GmbH                  | Caterpillar Paving Products Inc. | CRH plc          | Dupont CZ s.r.o.                  |
|                              |                                  |                                  |                  |                                   |
| Genan                        | Honeywell                        | ICL Performance Products LP      | infraTest        | J. Rettenmaier & Söhne GmbH & Co. |
|                              |                                  |                                  |                  |                                   |
| Kraton Polymers Nederland BV | Marini                           | MeadWestvaco                     | PQ Corporation   | Ruthman                           |
|                              |                                  |                                  |                  |                                   |
| Sasol Vek                    | Turkish Petroleum Refineries Co. | Vialit                           | Vögele           | Volvo Construction Equipment      |

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