**Anexa 4**

**Tabel 4.1 Costurile nete de operare – Alternativa „zero”**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | | **2017** | | | | | **2018** | | | | **2019** | | | | | | **2020** | | | | |
| **Nr. crt.** | **Elemente** | | **Valoare unitară (€/t)** | **Cantitate de deșeuri** | | **Valoare totală (euro)** | | **Valoare unitară (€/t)** | **Cantitate de deșeuri** | | **Valoare totală (euro)** | **Valoare unitară (€/t)** | | **Cantitate de deșeuri** | | **Valoare totală (euro)** | | **Valoare unitară (€/t)** | **Cantitate de deșeuri** | | **Valoare totală (euro)** | |
| a | Costuri de colectare și transport | | 30.14 | 52,932.40 | | 1,595,187.56 | | 31.53 | 52,023.50 | | 1,640,459.91 | 32.42 | | 51,054.15 | | 1,655,030.72 | | 33.26 | 50,107.88 | | 1,666,645.41 | |
| b | Costuri cu tratarea deșeurilor | | 5.44 | 14,636.99 | | 79,594.17 | | 5.68 | 14,374.68 | | 81,712.24 | 5.84 | | 14,091.78 | | 82,262.73 | | 5.98 | 13,814.07 | | 82,651.60 | |
| c | Costuri cu depozitarea | | 15.22 | 40,808.50 | | 621,105.39 | | 15.92 | 40,054.10 | | 637,848.94 | 16.37 | | 39,189.52 | | 641,555.06 | | 16.80 | 38,347.78 | | 644,097.50 | |
| d | Costuri cu contribuția pentru economia circulară | | 0.00 | 40,808.50 | | 0.00 | | 0.00 | 40,054.10 | | 0.00 | 6.42 | | 39,189.52 | | 251,752.80 | | 17.32 | 38,347.78 | | 664,030.87 | |
| **I** | **TOTAL COSTURI BRUTE DE OPERARE (I=a+b+c+d)** | | **2,295,887.12** | | | | | **2,360,021.09** | | | | **2,630,601.31** | | | | | | **3,057,425.38** | | | | |
| e | Venituri din valorificarea deșeurilor reciclabile, a energie rezultate | | 26.32 | 10,509.00 | | 276,562.91 | | 27.74 | 10,316.31 | | 286,208.17 | 28.71 | | 10,182.06 | | 292,281.43 | | 29.64 | 10,049.28 | | 297,876.33 | |
| f | Venituri din valorificare biogaz/energie | | 0.00 | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | |
| g | Venituri aferente cotei suportate de OTR | | 26.18 | 6,969.77 | | 182,477.72 | | 27.61 | 6,819.93 | | 188,319.71 | 28.57 | | 6,735.20 | | 192,424.42 | | 29.5 | 6,651.35 | | 196,217.26 | |
| **II** | **TOTAL COSTURI NETE DE OPERARE (II=I-e-f-g)** | | **1,836,846.49** | | | | | **1,885,493.21** | | | | **2,145,895.46** | | | | | | **2,563,331.79** | | | | |
| **Total cost net de operare (€/t)** | | | **28.93** | | | | | **30.09** | | | | **34.76** | | | | | | **42.15** | | | | |
|  | |  | **2021** | | | | | **2022** | | | | **2023** | | | | | | **2024** | | | | |
| a | | Costuri de colectare și transport | 34.09 | 49,169.52 | | 1,676,360.81 | | 34.91 | 48,254.11 | | 1,684,675.92 | 35.79 | | 47,360.98 | | 1,694,872.91 | | 36.68 | 46490.31 | | 1705349.28 | |
| b | | Costuri cu tratarea deșeurilor | 6.13 | 13,536.00 | | 82,921.87 | | 6.27 | 13,263.49 | | 83,109.65 | 6.42 | | 12,996.41 | | 83,376.77 | | 6.57 | 12734.86 | | 83643.78 | |
| c | | Costuri cu depozitarea | 17.22 | 37,518.27 | | 645,918.91 | | 17.63 | 36,711.10 | | 647,191.14 | 18.07 | | 35,925.61 | | 649,177.17 | | 18.52 | 35161.79 | | 651259.31 | |
| d | | Costuri cu contribuția pentru economia circulară | 17.39 | 37,518.27 | | 652,491.61 | | 17.47 | 36,711.10 | | 641,241.90 | 17.47 | | 35,925.61 | | 627,521.64 | | 17.47 | 35161.79 | | 614179.82 | |
| **I** | | **TOTAL COSTURI BRUTE DE OPERARE (I=a+b+c+d)** | **3,057,693.20** | | | | | **3,056,218.61** | | | | **3,054,948.49** | | | | | | **3054432.19** | | | | |
| e | | Venituri din valorificarea deșeurilor reciclabile, a energie rezultate | 30.57 | 9,913.97 | | 303,109.54 | | 31.50 | 9,780.44 | | 308,104.14 | 32.49 | | 9,648.64 | | 313,469.84 | | 33.51 | 9518.73 | | 318942.11 | |
| f | | Venituri din valorificare biogaz/energie | 0.00 | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | |
| g | | Venituri aferente cotei suportate de OTR | 30.43 | 6,566.67 | | 199,799.93 | | 31.35 | 6,483.01 | | 203,227.37 | 32.33 | | 6,400.37 | | 206,901.94 | | 33.34 | 6318.83 | | 210649.09 | |
| **II** | | **TOTAL COSTURI NETE DE OPERARE (II=I-e-f-g)** | **2,554,783.73** | | | | | **2,544,887.10** | | | | **2,534,576.71** | | | | | | **2524840.99** | | | | |
| **Total cost net de operare (€/t)** | | | **42.64** | | | | | **43.12** | | | | **43.59** | | | | | | **44.07** | | | | |
|  | | |  | | | | |  | | | |  | | | | | |  | | | | |
|  |  | | **2025** | | | | | **2026** | | | | **2027** | | | | | **2028** | | | | | | |
| **Nr. crt.** | **Elemente** | | **Valoare unitară (€/t)** | | **Cantitate de deșeuri** | | **Valoare totală (euro)** | **Valoare unitară (€/t)** | | **Cantitate de deșeuri** | **Valoare totală (euro)** | **Valoare unitară (€/t)** | **Cantitate de deșeuri** | | **Valoare totală (euro)** | | **Valoare unitară (€/t)** | | | **Cantitate de deșeuri** | | **Valoare totală (euro)** | |
| a | Costuri de colectare și transport | | 37.60 | | 45,640.88 | | 1,716,087.44 | 38.54 | | 45,229.34 | 1,743,165.54 | 39.50 | 44,821.21 | | 1,770,656.84 | | 40.49 | | | 44,416.34 | | 1,798,565.01 | |
| b | Costuri cu tratarea deșeurilor | | 6.72 | | 12,478.56 | | 83,909.36 | 6.89 | | 12,434.02 | 85,681.94 | 7.06 | 12,389.77 | | 87,492.91 | | 7.24 | | | 12,345.79 | | 89,342.86 | |
| c | Costuri cu depozitarea | | 18.98 | | 34,418.57 | | 653,430.88 | 19.46 | | 34,047.92 | 662,553.88 | 19.95 | 33,680.39 | | 671,787.06 | | 20.44 | | | 33,315.89 | | 681,129.62 | |
| d | Costuri cu contribuția pentru economia circulară | | 15.68 | | 38,347.78 | | 601,197.82 | 17.47 | | 34,047.92 | 594,723.47 | 17.47 | 33,680.39 | | 588,303.79 | | 17.47 | | | 33,315.89 | | 581,936.92 | |
| **I** | **TOTAL COSTURI BRUTE DE OPERARE (I=a+b+c+d)** | | **3,054,625.50** | | | | | **3,086,124.83** | | | | **3,118,240.60** | | | | | **3,150,974.41** | | | | | | |
| e | Venituri din valorificarea deșeurilor reciclabile, a energie rezultate | | 34.56 | | 9,390.54 | | 324,521.15 | 35.42 | | 9,354.93 | 331,358.06 | 36.31 | 9,319.57 | | 338,369.06 | | 37.22 | | | 9,284.42 | | 345,550.69 | |
| f | Venituri din valorificare biogaz/energie | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | |
| g | Venituri aferente cotei suportate de OTR | | 34.38 | | 6,238.29 | | 214,469.50 | 35.24 | | 6,214.11 | 218,971.21 | 36.12 | 6,190.10 | | 223,587.40 | | 37.03 | | | 6,166.24 | | 228,316.31 | |
| **II** | **TOTAL COSTURI NETE DE OPERARE (II=I-e-f-g)** | | **2,515,634.85** | | | | | **2,535,795.56** | | | | **2,556,284.14** | | | | | **2,577,107.41** | | | | | | |
| **Total cost net de operare (€/t)** | | | **44.57** | | | | | **45.09** | | | | **45.62** | | | | | **46.15** | | | | | | |
|  | |  | **2029** | | | | | **2030** | | | | **2031** | | | | | **2032** | | | | | | |
| a | | Costuri de colectare și transport | 41.51 | | 44,014.02 | | 1,826,867.62 | 42.55 | | 43,605.64 | 1,855,206.04 | 43.61 | 43,188.57 | | 1,883,438.80 | | 44.70 | | | 42,775.29 | | 1,912,092.87 | |
| b | | Costuri cu tratarea deșeurilor | 7.42 | | 12,301.86 | | 91,231.08 | 7.60 | | 12,255.42 | 93,137.58 | 7.79 | 12,205.58 | | 95,054.43 | | 7.98 | | | 12,156.12 | | 97,011.97 | |
| c | | Costuri cu depozitarea | 20.96 | | 32,953.89 | | 690,572.03 | 21.48 | | 32,588.19 | 699,981.09 | 22.02 | 32,216.83 | | 709,304.60 | | 22.57 | | | 31,848.94 | | 718,735.14 | |
| d | | Costuri cu contribuția pentru economia circulară | 17.47 | | 32,953.89 | | 575,613.88 | 17.47 | | 32,588.19 | 569,225.98 | 17.47 | 32,216.83 | | 562,739.40 | | 17.47 | | | 31,848.94 | | 556,313.44 | |
| **I** | | **TOTAL COSTURI BRUTE DE OPERARE (I=a+b+c+d)** | **3,184,284.61** | | | | | **3,217,550.69** | | | | **3,250,537.23** | | | | | **3,284,153.42** | | | | | | |
| e | | Venituri din valorificarea deșeurilor reciclabile, a energie rezultate | 38.15 | | 9,249.30 | | 352,821.26 | 39.10 | | 9,212.13 | 360,170.81 | 40.07 | 9,172.32 | | 367,576.01 | | 41.08 | | | 9,132.79 | | 375,146.26 | |
| f | | Venituri din valorificare biogaz/energie | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | |
| g | | Venituri aferente cotei suportate de OTR | 37.95 | | 6,142.40 | | 233,102.57 | 38.9 | | 6,117.20 | 237,940.62 | 39.87 | 6,090.26 | | 242,815.16 | | 40.87 | | | 6,063.52 | | 247,798.11 | |
| **II** | | **TOTAL COSTURI NETE DE OPERARE (II=I-e-f-g)** | **2,598,360.78** | | | | | **2,619,439.26** | | | | **2,640,146.06** | | | | | **2,661,209.05** | | | | | | |
| **Total cost net de operare (€/t)** | | | **46.70** | | | | | **47.26** | | | | **47.83** | | | | | **48.41** | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | | **2033** | | | **2034** | | | **2035** | | | **2036** | | |
| **Nr. crt.** | **Elemente** | | **Valoare unitară (€/t)** | **Cantitate de deșeuri** | **Valoare totală (euro)** | **Valoare unitară (€/t)** | **Cantitate de deșeuri** | **Valoare totală (euro)** | **Valoare unitară (€/t)** | **Cantitate de deșeuri** | **Valoare totală (euro)** | **Valoare unitară (€/t)** | **Cantitate de deșeuri** | **Valoare totală (euro)** |
| a | Costuri de colectare și transport | | 45.82 | 42,365.34 | 1,941,153.38 | 46.97 | 42,205.90 | 1,982,211.54 | 48.14 | 42,047.51 | 2,024,160.07 | 49.34 | 41,890.18 | 2,067,019.58 |
| b | Costuri cu tratarea deșeurilor | | 8.18 | 12,106.88 | 99,009.97 | 8.38 | 12,057.96 | 101,050.13 | 8.59 | 12,009.37 | 103,133.38 | 8.80 | 11,961.11 | 105,260.66 |
| c | Costuri cu depozitarea | | 23.13 | 31,484.18 | 728,266.12 | 23.71 | 31,369.64 | 743,757.00 | 24.30 | 31,255.84 | 759,585.38 | 24.91 | 31,142.80 | 775,759.23 |
| d | Costuri cu contribuția pentru economia circulară | | 17.47 | 31,484.18 | 549,942.04 | 17.47 | 31,369.64 | 547,941.27 | 17.47 | 31,255.84 | 545,953.53 | 17.47 | 31,142.80 | 543,979.04 |
| **I** | **TOTAL COSTURI BRUTE DE OPERARE (I=a+b+c+d)** | | **3,318,371.51** | | | **3,374,959.94** | | | **3,432,832.36** | | | **3,492,018.51** | | |
| e | Venituri din valorificarea deșeurilor reciclabile, a energie rezultate | | 42.10 | 9,093.44 | 382,866.04 | 43.16 | 9,054.34 | 390,754.71 | 44.24 | 9,015.51 | 398,801.34 | 45.34 | 8,976.94 | 407,003.67 |
| f | Venituri din valorificare biogaz/energie | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| g | Venituri aferente cotei suportate de OTR | | 41.89 | 6,036.91 | 252,879.48 | 42.94 | 6,010.46 | 258,071.26 | 44.01 | 5,984.20 | 263,366.74 | 45.11 | 5,958.11 | 268,764.12 |
| **II** | **TOTAL COSTURI NETE DE OPERARE (II=I-e-f-g)** | | **2,682,625.99** | | | **2,726,133.97** | | | **2,770,664.28** | | | **2,816,250.72** | | |
| **Total cost net de operare (€/t)** | | | **49.00** | | | **49.99** | | | **51.02** | | | **52.06** | | |
|  | |  | **2037** | | | **2038** | | | **2039** | | | **2040** | | |
| a | | Costuri de colectare și transport | 50.58 | 41,733.88 | 2,110,808.97 | 51.84 | 41,578.76 | 2,155,555.99 | 53.14 | 41,424.61 | 2,201,270.88 | 54.47 | 41,267.97 | 2,247,790.10 |
| b | | Costuri cu tratarea deșeurilor | 9.02 | 11,913.16 | 107,432.88 | 9.24 | 11,865.57 | 109,651.47 | 9.47 | 11,818.28 | 111,916.83 | 9.70 | 11,770.21 | 114,218.84 |
| c | | Costuri cu depozitarea | 25.53 | 31,030.49 | 792,285.70 | 26.17 | 30,919.03 | 809,175.74 | 26.83 | 30,808.26 | 826,433.66 | 27.50 | 30,695.83 | 844,003.23 |
| d | | Costuri cu contribuția pentru economia circulară | 17.47 | 31,030.49 | 542,017.33 | 17.47 | 30,919.03 | 540,070.36 | 17.47 | 30,808.26 | 538,135.47 | 17.47 | 30,695.83 | 536,171.67 |
| **I** | | **TOTAL COSTURI BRUTE DE OPERARE (I=a+b+c+d)** | **3,552,544.88** | | | **3,614,453.56** | | | **3,677,756.84** | | | **3,742,183.84** | | |
| e | | Venituri din valorificarea deșeurilor reciclabile, a energie rezultate | 46.47 | 8,938.63 | 415,368.57 | 47.63 | 8,900.62 | 423,966.58 | 48.82 | 8,862.85 | 432,721.59 | 50.04 | 8,824.32 | 441,593.73 |
| f | | Venituri din valorificare biogaz/energie | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| g | | Venituri aferente cotei suportate de OTR | 46.23 | 5,932.20 | 274,267.66 | 47.39 | 5,906.48 | 279,924.60 | 48.58 | 5,880.93 | 285,684.22 | 49.79 | 5,854.83 | 291,518.63 |
| **II** | | **TOTAL COSTURI NETE DE OPERARE (II=I-e-f-g)** | **2,862,908.65** | | | **2,910,562.38** | | | **2,959,351.03** | | | **3,009,071.48** | | |
| **Total cost net de operare (€/t)** | | | **53.14** | | | **54.24** | | | **55.37** | | | **56.53** | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **2041** | | | **2042** | | |
| **Nr. crt.** | **Elemente** | **Valoare unitară (€/t)** | **Cantitate de deșeuri** | **Valoare totală (euro)** | **Valoare unitară (€/t)** | **Cantitate de deșeuri** | **Valoare totală (euro)** |
| a | Costuri de colectare și transport | 55.83 | 41,126.34 | 2,296,096.20 | 57.23 | 40,986.07 | 2,345,490.89 |
| b | Costuri cu tratarea deșeurilor | 9.94 | 11,726.75 | 116,614.82 | 10.19 | 11,683.71 | 119,063.75 |
| c | Costuri cu depozitarea | 28.18 | 30,594.08 | 862,235.68 | 28.89 | 30,493.32 | 880,880.79 |
| d | Costuri cu contribuția pentru economia circulară | 17.47 | 30,594.08 | 534,394.38 | 17.47 | 30,493.32 | 532,634.34 |
| **I** | **TOTAL COSTURI BRUTE DE OPERARE (I=a+b+c+d)** | **3,809,341.08** | | | **3,878,069.77** | | |
| e | Venituri din valorificarea deșeurilor reciclabile, a energie rezultate | 51.30 | 8,789.59 | 450,874.71 | 52.58 | 8,755.18 | 460,327.01 |
| f | Venituri din valorificare biogaz/energie | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| g | Venituri aferente cotei suportate de OTR | 51.04 | 5,831.32 | 297,623.61 | 52.31 | 5,808.02 | 303,841.32 |
| **II** | **TOTAL COSTURI NETE DE OPERARE (II=I-e-f-g)** | **3,060,842.76** | | | **3,113,901.44** | | |
| **Total cost net de operare (€/t)** | | **57.72** | | | **58.94** | | |