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(972-2) 240 6340 :
diwan@pcbs.pna.org :

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Tables

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Table 1: Imported Energy in the Remaining West Bank and Gaza Strip by Type of Energy and Month, 1997

Electricity in MegaWatt.hour, Gasoline, Diesel and Kerosene in Thousand Liters,

LPG, Coal and Wood in Metric Tons and Total Energy in Tera Joule

| Month | Total Energy | Energy Type | | | | | Electricity |
|--------------|--------------|---------------|--------------|--------------|---------------|---------------|----------------|
| | | Coal and Wood | LPG | Kerosene | Diesel | Gasoline | |
| January | 1473 | 575 | 2082 | 1853 | 15572 | 13687 | 71614 |
| February | 2145 | 1033 | 1963 | 2284 | 13470 | 13918 | 78958 |
| March | 1408 | 857 | 2045 | 1843 | 15078 | 11984 | 72208 |
| April | 1202 | 690 | 1224 | 549 | 12600 | 10573 | 76282 |
| May | 1388 | 816 | 1017 | 191 | 14847 | 13609 | 82872 |
| June | 1374 | 1711 | 937 | 168 | 15374 | 11588 | 86607 |
| July | 1380 | 841 | 758 | 168 | 15519 | 12686 | 84665 |
| August | 1406 | 595 | 993 | 211 | 17134 | 10086 | 94684 |
| September | 1316 | 527 | 1156 | 339 | 15613 | 10830 | 78505 |
| October | 1385 | 350 | 930 | 899 | 16122 | 11203 | 85901 |
| November | 1304 | 365 | 1101 | 535 | 15143 | 10157 | 84424 |
| December | 1640 | 712 | 1786 | 1462 | 16272 | 10733 | 133890 |
| Total | 16728 | 9072 | 15992 | 10502 | 182744 | 141054 | 1030610 |

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Table 2: Imported Energy in the Remaining West Bank and Gaza Strip by Type of Energy and Region, 1997

Electricity in MegaWatt.hour, Gasoline, Diesel and Kerosene in Thousand Liters,

LPG, Coal and Wood in Metric Tons and Total Energy in Tera Joule

| Region | Total Energy | Energy Type | | | | | Electricity |
|------------------|--------------|---------------|--------------|--------------|---------------|---------------|----------------|
| | | Coal and Wood | LPG | Kerosene | Diesel | Gasoline | |
| West Bank- North | 5786 | 2069 | 5891 | 4182 | 71246 | 54747 | 236337 |
| West Bank-Middle | 3197 | 31 | 2772 | 2063 | 39691 | 28753 | 151738 |
| West Bank-South | 5303 | 5994 | 5234 | 3659 | 63216 | 47941 | 234787 |
| Gaza Strip | 2442 | 978 | 2095 | 598 | 8591 | 9613 | 407748 |
| Total | 16728 | 9072 | 15992 | 10502 | 182744 | 141054 | 1030610 |

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Table 3: Re-Exported Energy in the Remaining West Bank and Gaza Strip by Type of Energy and Month, 1997

Electricity in MegaWatt.hour, Gasoline, Diesel and Kerosene in Thousand Liters,

LPG, Coal and Wood in Metric Tons and Total Energy in Tera Joule

| Month | Total Energy | Energy Type | | | | | Electricity |
|--------------|--------------|---------------|----------|----------|-------------|------------|-------------|
| | | Coal and Wood | LPG | Kerosene | Diesel | Gasoline | |
| January | 20 | 46 | 1 | 5 | 455 | 58 | 0 |
| February | 22 | 128 | 6 | 0 | 461 | 52 | 0 |
| March | 23 | 80 | 0 | 0 | 535 | 49 | 0 |
| April | 28 | 146 | 0 | 0 | 624 | 75 | 0 |
| May | 27 | 171 | 0 | 0 | 574 | 62 | 0 |
| June | 34 | 143 | 1 | 0 | 821 | 28 | 0 |
| July | 24 | 319 | 0 | 0 | 476 | 4 | 0 |
| August | 28 | 158 | 0 | 0 | 637 | 36 | 0 |
| September | 22 | 254 | 0 | 0 | 421 | 23 | 0 |
| October | 29 | 150 | 0 | 0 | 669 | 42 | 0 |
| November | 27 | 217 | 0 | 0 | 556 | 66 | 0 |
| December | 34 | 47 | 0 | 0 | 847 | 53 | 0 |
| Total | 318 | 1859 | 8 | 5 | 7076 | 548 | 0 |

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Table 4: Re-Exported Energy in the Remaining West Bank and Gaza Strip by Type of Energy and Region, 1997

Electricity in MegaWatt.hour, Gasoline, Diesel and Kerosene in Thousand Liters.,

LPG , Coal and Wood in Metric Tons and Total Energy in Tera Joule

| Region | Total Energy | Energy Type | | | | | Electricity |
|------------------|--------------|---------------|----------|----------|-------------|------------|-------------|
| | | Coal and Wood | LPG | Kerosene | Diesel | Gasoline | |
| West Bank- North | 79 | 1857 | 0 | 0 | 986 | 132 | 0 |
| West Bank-Middle | 112 | 0 | 8 | 5 | 2869 | 172 | 0 |
| West Bank-South | 127 | 2 | 0 | 0 | 3221 | 244 | 0 |
| Gaza Strip | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 318 | 1859 | 8 | 5 | 7076 | 548 | 0 |

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Table 5: Energy Purchases for Industrial Activities by Type of Energy and Activity, 1997

Electricity in MegaWatt.hour, Gasoline, Diesel and Kerosene in Thousand Liters,
LPG, Oil and Lubricates, Coal and Wood in Metric Tons and Total Energy in Tera Joule

| Economic Activity | No. of Establ. | Total Energy | Energy Type | | | | | | |
|------------------------------|----------------|--------------|---------------|---------------------|-------------|-------------|--------------|-------------|---------------|
| | | | Coal and Wood | Oils and Lubricates | LPG | Kerosene | Diesel | Gasoline | Electricity |
| Mining & quarrying | 362 | 371 | 1 | 285 | 17 | 2 | 9322 | 204 | 1845 |
| Manufacturing | 14794 | 3835 | 659 | 1299 | 6147 | 1277 | 59858 | 8567 | 235126 |
| Electricity and water supply | 886 | 425 | 1 | 72 | 22 | 21 | 6521 | 209 | 41659 |
| Total | 16042 | 4631 | 661 | 1656 | 6186 | 1300 | 75701 | 8980 | 278630 |

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Table 6: Energy Purchases for Industrial Activities by Type of Energy and Region, 1997

Electricity in MegaWatt.hour, Gasoline, Diesel and Kerosene in Thousand Liters.

LPG, Oil and Lubricates, Coal and Wood in Metric Tons and Total Energy in Tera Joule

| Region | Economic Activity | No. of Establ. | Total Energy | Energy Type | | | | | | | | |
|-------------------|------------------------------|----------------|--------------|---------------|---------------------|-------------|-------------|--------------|-------------|---------------|--|--|
| | | | | Coal and Wood | Oils and Lubricates | LPG | Kerosene | Diesel | Gasoline | Electricity | | |
| West Bank -North | Mining & quarrying | 145 | 201 | 1 | 105 | 6 | 1 | 5240 | 31 | 465 | | |
| | Manufacturing | 4988 | 807 | 240 | 327 | 847 | 292 | 14171 | 1978 | 37464 | | |
| | Electricity and water supply | 189 | 204 | 1 | 60 | 3 | 2 | 5439 | 14 | 61 | | |
| | Total | 5322 | 1212 | 242 | 492 | 856 | 295 | 24850 | 2023 | 37990 | | |
| West Bank -Middle | Mining & quarrying | 6 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | | |
| | Manufacturing | 2160 | 767 | 104 | 208 | 1241 | 85 | 11623 | 1487 | 53815 | | |
| | Electricity and water supply | 28 | 195 | 0 | 1 | 13 | 0 | 485 | 195 | 41186 | | |
| | Total | 2194 | 962 | 104 | 209 | 1254 | 85 | 12111 | 1683 | 95001 | | |
| West Bank -South | Mining & quarrying | 211 | 170 | 0 | 179 | 11 | 1 | 4079 | 171 | 1380 | | |
| | Manufacturing | 3702 | 1258 | 176 | 440 | 775 | 193 | 22280 | 2066 | 74046 | | |
| | Electricity and water supply | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | | |
| | Total | 3927 | 1428 | 176 | 619 | 786 | 194 | 26359 | 2237 | 75430 | | |
| Gaza Strip | Manufacturing | 3944 | 1004 | 139 | 325 | 3284 | 707 | 11784 | 3037 | 69801 | | |
| | Electricity and water supply | 655 | 25 | 0 | 11 | 6 | 19 | 597 | 0 | 408 | | |
| | Total | 4599 | 1029 | 139 | 336 | 3290 | 726 | 12381 | 3037 | 70209 | | |
| Total | | 16042 | 4631 | 661 | 1656 | 6186 | 1300 | 75701 | 8980 | 278630 | | |

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Table 7: Energy Purchases for Economic Activities (Except Industry) by Type of Energy and Activity, 1997

Electricity in MegaWatt.hour, Gasoline, Diesel and Kerosene in Thousand Liters,

LPG, Oil and Lubricates, Coal and Wood in Metric Tons and Total Energy in Tera Joule

| Economic Activity | No. of Establ. | Total Energy | Energy Type | | | | | | | |
|-------------------------------------|----------------|--------------|---------------|---------------------|-------------|-------------|---------------|--------------|---------------|--|
| | | | Coal and Wood | Oils and Lubricates | LPG | Kerosene | Diesel | Gasoline | Electricity | |
| Construction | 526 | 1334 | 919 | 832 | 207 | 102 | 28929 | 3836 | 18768 | |
| Services | 13378 | 805 | 548 | 167 | 2703 | 885 | 6070 | 3542 | 73124 | |
| Internal trade | 39548 | 1243 | 104 | 404 | 1082 | 839 | 20220 | 6070 | 50158 | |
| Transport, storage & communications | 687 | 1816 | 0 | 935 | 146 | 889 | 45349 | 787 | 8680 | |
| Total | 54139 | 5198 | 1571 | 2338 | 4138 | 2715 | 100568 | 14237 | 150730 | |

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Table 8: Energy Purchases in Economic Activities (Except Industry) by Type of Energy and Region, 1997

Electricity in MegaWatt.hour, Gasoline, Diesel and Kerosene in Thousand Liters,

LPG, Oil and Lubricates, Coal and Wood in Metric Tons and Total Energy in Tera Joule

| Region | Economic Activity | No .of Establ. | Total Energy | Energy Type | | | | | | | | |
|-------------------|---|-------------------|-----------------|------------------|------------------------|-------------|------------|--------------|-------------|--------------|--|--|
| | | | | Coal and Wood | Oils and Lubricates | LPG | Kerosene | Diesel | Gasoline | Electricity | | |
| West Bank - North | Construction | 145 | 505 | 407 | 430 | 58 | 10 | 11564 | 955 | 4426 | | |
| | Services | 4454 | 127 | 49 | 21 | 210 | 18 | 1375 | 489 | 11831 | | |
| | Internal trade | 14076 | 339 | 25 | 93 | 174 | 296 | 6803 | 980 | 8138 | | |
| | Transport, storage and communication | 161 | 380 | 0 | 194 | 8 | 11 | 9616 | 178 | 2394 | | |
| | Total | 18836 | 1351 | 148 | 738 | 450 | 335 | 29358 | 2602 | 26789 | | |
| West Bank- Middle | Construction | 78 | 352 | 0 | 52 | 11 | 14 | 8325 | 376 | 7134 | | |
| | Services | 2320 | 330 | 765 | 47 | 1169 | 731 | 1333 | 935 | 37715 | | |
| | Internal trade | 5157 | 297 | 77 | 86 | 213 | 74 | 3542 | 1898 | 21632 | | |
| | Transport, storage and communication | 124 | 534 | 0 | 295 | 23 | 13 | 13624 | 279 | 1903 | | |
| | Total | 7679 | 1513 | 842 | 480 | 1416 | 832 | 26824 | 3488 | 68384 | | |
| West Bank - South | Construction | 84 | 198 | 41 | 156 | 22 | 1 | 4068 | 703 | 4049 | | |
| | Services | 2636 | 184 | 61 | 58 | 564 | 47 | 2192 | 861 | 11316 | | |
| | Internal trade | 8021 | 221 | 4 | 88 | 95 | 30 | 3874 | 1225 | 7226 | | |
| | Transport, storage and communication | 92 | 572 | 0 | 385 | 19 | 183 | 14741 | 30 | 560 | | |
| | Total | 10833 | 1175 | 106 | 687 | 700 | 261 | 24875 | 2819 | 23151 | | |

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Table 8 (Continued): Energy Purchases in Economic Activities (Except Industry) by Type of Energy and Region, 1997

Electricity in MegaWatt.hour, Gasoline, Diesel and Kerosene in Thousand Liters,

LPG, Oil and Lubricates and Coal and Wood in Metric Tons and Total Energy in Tera Joule

| Region | Economic Activity | No .of Establ. | Total Energy | Energy Type | | | | | | | | |
|--------------|---|-------------------|-----------------|------------------|------------------------|-------------|-------------|---------------|--------------|---------------|--|-------------|
| | | | | Coal and Wood | Oils and Lubricates | LPG | Kerosene | Diesel | Gasoline | | | Electricity |
| Gaza Strip | Construction | 219 | 269 | 2 | 194 | 115 | 78 | 4970 | 1802 | 3160 | | |
| | Services | 3968 | 173 | 94 | 40 | 760 | 88 | 1170 | 1259 | 12261 | | |
| | Internal trade | 12294 | 387 | 46 | 137 | 600 | 438 | 6001 | 1967 | 13161 | | |
| | Transport, storage and communication | 310 | 330 | 0 | 62 | 97 | 683 | 7369 | 300 | 3824 | | |
| | Total | 16791 | 1159 | 142 | 433 | 1572 | 1287 | 19511 | 5328 | 32406 | | |
| Total | | 54139 | 5198 | 1571 | 2338 | 4138 | 2715 | 100568 | 14237 | 150730 | | |

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Table 9: Energy Used for Production in Industrial Activities by Type of Energy and Activity, 1997

Electricity in MegaWatt.hour, Gasoline, Diesel and Kerosene in Thousand Liters,

LPG, Oil and Lubricates, Coal and Wood in Metric Tons and Total Energy in Tera Joule

| Economic Activity | No. of Establ. | Total Energy | Energy Type | | | | | | | |
|------------------------------|-------------------|-----------------|------------------|------------------------|-------------|-------------|--------------|-------------|---------------|--|
| | | | Coal and Wood | Oils and Lubricates | LPG | Kerosene | Diesel | Gasoline | Electricity | |
| Mining & quarrying | 362 | 375 | 1 | 283 | 18 | 2 | 9416 | 204 | 1845 | |
| Manufacturing | 14794 | 3847 | 671 | 1334 | 6106 | 1271 | 60181 | 8613 | 235103 | |
| Electricity and water supply | 886 | 424 | 1 | 72 | 22 | 21 | 6495 | 209 | 41659 | |
| Total | 16042 | 4646 | 673 | 1689 | 6146 | 1294 | 76092 | 9026 | 278607 | |

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Table 10: Energy Used for Production in Industrial Activities by Type of Energy and Region, 1997

Electricity in MegaWatt.hour, Gasoline, Diesel and Kerosene in Thousand Liters,

LPG, Oil and Lubricates, Coal and Wood in Metric Tons and Total Energy in Tera Joule

| Region | Economic Activity | No. of Establ. | Total Energy | Energy Type | | | | | | | | |
|-------------------|------------------------------|----------------|--------------|---------------|--------------------|-------------|------------|--------------|-------------|--------------|--|--|
| | | | | Coal and Wood | Oils and Lubricate | LPG | Kerosene | Diesel | Gasoline | Electricity | | |
| West Bank -North | Mining & quarrying | 145 | 200 | 1 | 105 | 6 | 1 | 5240 | 31 | 465 | | |
| | Manufacturing | 4988 | 810 | 252 | 326 | 841 | 285 | 14223 | 1975 | 37464 | | |
| | Electricity and water supply | 189 | 204 | 1 | 60 | 3 | 2 | 5429 | 14 | 61 | | |
| | Total | 5322 | 1214 | 254 | 491 | 850 | 288 | 24892 | 2020 | 37990 | | |
| West Bank -Middle | Mining & quarrying | 6 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | | |
| | Manufacturing | 2160 | 767 | 104 | 210 | 1242 | 85 | 11645 | 1485 | 53791 | | |
| | Electricity and water supply | 28 | 195 | 0 | 1 | 13 | 0 | 468 | 196 | 41186 | | |
| | Total | 2194 | 962 | 104 | 211 | 1255 | 85 | 12116 | 1682 | 94977 | | |
| West Bank -South | Mining & quarrying | 211 | 173 | 0 | 177 | 12 | 1 | 4173 | 172 | 1381 | | |
| | Manufacturing | 3702 | 1269 | 176 | 474 | 753 | 193 | 22539 | 2118 | 74046 | | |
| | Electricity and water supply | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | | |
| | Total | 3927 | 1442 | 176 | 651 | 765 | 194 | 26712 | 2290 | 75431 | | |
| Gaza Strip | Manufacturing | 3944 | 1003 | 139 | 325 | 3270 | 707 | 11774 | 3034 | 69801 | | |
| | Electricity and water supply | 655 | 25 | 0 | 11 | 6 | 20 | 598 | 0 | 408 | | |

1997

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Table10 (Continued): Energy Used for Production for Industrial Activities by Type of Energy and Region, 1997

Electricity in MegaWatt.hour, Gasoline, Diesel and Kerosene in Thousand Liters,

LPG, Oil and Lubricates, Coal and Wood in Metric Tons and Total Energy in Tera Joule

| Region | Economic Activity | No. of Establ. | Total Energy | Energy Type | | | | | | | | |
|--------------|-------------------|----------------|--------------|---------------|---------------------|-------------|-------------|--------------|-------------|---------------|--|-------------|
| | | | | Coal and Wood | Oils and Lubricates | LPG | Kerosene | Diesel | Gasoline | | | Electricity |
| | Total | 4599 | 1028 | 139 | 336 | 3276 | 727 | 12372 | 3034 | 70209 | | |
| Total | | 16042 | 4646 | 673 | 1689 | 6146 | 1294 | 76092 | 9026 | 278607 | | |

1997

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Table 11: Energy Used for Production in Economic Activities (Except Industry) by Type of Energy and Activity, 1997

Electricity in MegaWatt.hour, Gasoline, Diesel and Kerosene in Thousand Liters,

LPG, Oil and Lubricates, Coal and Wood in Metric Tons and Total Energy in Tera Joule

| Economic Activity | No .of Establ. | Total Energy | Energy Type | | | | | | |
|-------------------------------------|-------------------|-----------------|------------------|------------------------|-------------|-------------|---------------|--------------|---------------|
| | | | Coal and Wood | Oils and Lubricates | LPG | Kerosene | Diesel | Gasoline | Electricity |
| Construction | 526 | 1385 | 920 | 880 | 206 | 104 | 30251 | 3837 | 18768 |
| Services | 13378 | 806 | 549 | 168 | 2702 | 886 | 6091 | 3550 | 73106 |
| Internal trade | 39548 | 1244 | 104 | 404 | 1081 | 853 | 20223 | 6065 | 50150 |
| Transport, storage & communications | 687 | 1820 | 0 | 934 | 148 | 889 | 45445 | 803 | 8681 |
| Total | 54139 | 5255 | 1572 | 2386 | 4137 | 2732 | 102012 | 14256 | 150705 |

1997

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Table 12: Energy Used for Production in Economic Activities (Except Industry) by Type of Energy and Region, 1997

Electricity in MegaWatt.hour, Gasoline, Diesel and Kerosene in Thousand Liters.

LPG, Oil and Lubricates, Coal and Wood in Metric Tons and Total Energy in Tera Joule

| Region | Economic Activity | No. of Establ. | Total Energy | Energy Type | | | | | | | | |
|---------------------|---------------------------------------|----------------|--------------|---------------|---------------------|-------------|------------|--------------|-------------|--------------|--|-------------|
| | | | | Coal and Wood | Oils and Lubricates | LPG | Kerosene | Diesel | Gasoline | | | Electricity |
| West Bank-North | Construction | 145 | 501 | 407 | 429 | 57 | 10 | 11467 | 955 | 4426 | | |
| | Services | 4454 | 127 | 49 | 21 | 214 | 18 | 1375 | 488 | 11831 | | |
| | Internal trade | 14076 | 339 | 25 | 93 | 175 | 310 | 6798 | 979 | 8138 | | |
| | Transport , storage and communication | 161 | 380 | 0 | 194 | 8 | 11 | 9616 | 178 | 2394 | | |
| | Total | 18836 | 1347 | 481 | 737 | 454 | 349 | 29256 | 2600 | 26789 | | |
| West Bank - Middle | Construction | 78 | 416 | 469 | 100 | 11 | 14 | 9729 | 376 | 7134 | | |
| | Services | 2320 | 323 | 345 | 47 | 1169 | 733 | 1357 | 944 | 37711 | | |
| | Internal trade | 5157 | 297 | 29 | 86 | 213 | 75 | 3560 | 1901 | 21632 | | |
| | Transport, storage and communication | 124 | 534 | 1 | 295 | 23 | 13 | 13624 | 279 | 1903 | | |
| | Total | 7679 | 1570 | 844 | 528 | 1416 | 835 | 28270 | 3500 | 68380 | | |
| West Bank - South - | Construction | 84 | 198 | 41 | 156 | 22 | 1 | 4068 | 700 | 4049 | | |
| | Services | 2636 | 184 | 61 | 58 | 564 | 47 | 2192 | 860 | 11303 | | |
| | Internal trade | 8021 | 220 | 4 | 88 | 94 | 30 | 3871 | 1220 | 7218 | | |
| | Transport, storage and communication | 92 | 572 | 0 | 385 | 19 | 183 | 14741 | 30 | 560 | | |
| | Total | 10833 | 1174 | 106 | 687 | 699 | 261 | 24872 | 2810 | 23130 | | |

1997

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Table 12 (Continued): Energy Used for Production in Economic Activities (Except Industry) by Type of Energy and Region, 1997

Electricity in MegaWatt.hour, Gasoline, Diesel and Kerosene in Thousand Liters,

LPG, Oil and Lubricates, Coal and Wood in Metric Tons and Total Energy in Tera Joule

| Region | Economic Activity | No. of Establ. | Total Energy | Energy Type | | | | | | | | |
|--------------|-------------------------------------|----------------|--------------|---------------|---------------------|-------------|-------------|---------------|--------------|---------------|--|-------------|
| | | | | Coal and Wood | Oils and Lubricates | LPG | Kerosene | Diesel | Gasoline | | | Electricity |
| Gaza Strip | Construction | 219 | 270 | 2 | 194 | 115 | 80 | 4987 | 1806 | 3160 | | |
| | Services | 3968 | 173 | 93 | 40 | 758 | 88 | 1167 | 1257 | 12261 | | |
| | Internal trade | 12294 | 387 | 46 | 138 | 598 | 437 | 5994 | 1967 | 13161 | | |
| | Transport storage and communication | 310 | 334 | 0 | 62 | 97 | 682 | 7465 | 316 | 3824 | | |
| | Total | 16791 | 1164 | 141 | 434 | 1568 | 1287 | 19613 | 5346 | 32406 | | |
| Total | | 54139 | 5255 | 1572 | 2386 | 4137 | 2732 | 102012 | 14256 | 150705 | | |

1997

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Table 13 : Energy Losses in Economic Activities by Type of Energy and Activity, 1997

Diesel and Kerosene in Thousand Liters,

LPG, Oils and Lubricates, Coal and Wood and in metric Tons and total Energy in Tera Joule (TJ)

| Active | Economic Activity | Total Energy | Energy Type | | | | | | | |
|----------------|--|--------------|---------------|---------------------|-------------|------------|------------|------------|------------|----------|
| | | | Coal and Wood | Oils and Lubricates | LPG | Kerosene | Diesel | | | Gasoline |
| Industry | Mining & quarrying | 0.1 | 0.0 | 0.3 | 0.0 | 0.0 | 0.6 | 0.0 | | |
| | Manufacturing | 1.3 | 0.1 | 0.5 | 22.6 | 3.7 | 5.1 | 0.3 | | |
| | Electricity and water supply | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | | |
| | Total | 1.4 | 0.1 | 0.8 | 22.6 | 3.7 | 6.4 | 0.3 | | |
| Internal Trade | Wholesale and retail & repairs | 0.2 | 0.0 | 0.0 | 0.1 | 0.5 | 2.6 | 1.1 | | |
| | Total | 0.2 | 0.0 | 0.0 | 0.1 | 0.5 | 2.6 | 1.1 | | |
| Construction | Construction | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Services | Hotels & restaurants | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.2 | | |
| | Real estate, renting & business activities | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | Education | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | Health & social work | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | Community, social & personal services | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.2 | |
| Transport | Transport, Storage and communication. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Total | | 1.6 | 0.1 | 0.8 | 22.7 | 4.2 | 9.3 | 1.6 | | |

1997

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Table 14: Energy Losses in Economic Activities by Type of Energy and Region, 1997

Gasoline, Diesel and Kerosene in Thousand Liters,

LPG, Oil and Lubricates, Coal and Wood in Metric Tons and Total Energy in Tera Joule

| Region | Total Energy | Energy Type | | | | | | |
|--------------------|--------------|---------------|---------------------|-------------|------------|------------|------------|--|
| | | Coal and Wood | Oils and Lubricates | LPG | Kerosene | Diesel | Gasoline | |
| West Bank - North | 0.5 | 0.1 | 0.0 | 0.1 | 3.0 | 6.4 | 0.4 | |
| West Bank - Middle | 0.0 | 0.0 | 0.1 | 0.0 | 0.6 | 0.4 | 0.2 | |
| West Bank - South | 1.1 | 0.0 | 0.6 | 22.5 | 0.1 | 2.5 | 1.0 | |
| Gaza Strip | 0.0 | 0.0 | 0.1 | 0.1 | 0.5 | 0.0 | 0.0 | |
| Total | 1.6 | 0.1 | 0.8 | 22.7 | 4.2 | 9.3 | 1.6 | |

1997

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Table 15 : Energy Used for Electricity Generation in Economic Activities by Type of Energy and Activity, 1997

Gasoline, Diesel and Kerosene in Thousand Liters,

LPG, Oil and Lubricates, Coal and Wood in Metric Tons and Total Energy in Tera Joule

| Active | Economic Activity | Total Energy | Energy Type | | | | | |
|----------------|--|--------------|---------------|--------------------|------------|--------------|----------------|-------------|
| | | | Coal and Wood | Oils and Lubricate | LPG | Kerosene | Diesel | Gasoline |
| Industry | Mining & quarrying | 11.4 | 0.0 | 0.8 | 0.0 | 0.0 | 297.6 | 11.0 |
| | Manufacturing | 363.2 | 182.5 | 20.6 | 0.9 | 127.9 | 9544.9 | 27.6 |
| | Electricity and water supply | 18.8 | 0.0 | 2.2 | 0.0 | 0.0 | 504.8 | 0.0 |
| | Total | 393.4 | 182.5 | 23.6 | 0.9 | 127.9 | 10347.3 | 38.6 |
| Internal Trade | Wholesale and retail & repairs | 14.5 | 0.0 | 1.0 | 0.0 | 186.9 | 171.2 | 36.0 |
| | Total | 14.5 | 0.0 | 1.0 | 0.0 | 186.7 | 171.2 | 36.0 |
| Construction | Construction | 43.3 | 0.0 | 2.0 | 0.0 | 0.0 | 1153.2 | 17.0 |
| | Total | 43.3 | 0.0 | 2.0 | 0.0 | 0.0 | 1153.2 | 17.0 |
| Services | Hotels & restaurants | 4.1 | 0.0 | 0.0 | 0.0 | 1.2 | 110.4 | 1.8 |
| | Real estate, renting & business activities | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Education | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 1.6 | 0.1 |
| | Health & social work | 1.1 | 0.0 | 0.0 | 1.5 | 2.4 | 25.8 | 0.5 |
| | Community, social & personal services | 2.4 | 0.0 | 0.0 | 0.7 | 0.0 | 62.7 | 0.2 |
| | Total | 7.7 | 0.0 | 0.1 | 2.3 | 3.6 | 200.5 | 2.6 |
| Transport | Transport, Storage and communication | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | | 458.9 | 182.5 | 26.7 | 3.2 | 318.2 | 11872.2 | 94.2 |

1997

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Table 16 : Energy Used for Electricity Generation in Economic Activities by Type of Energy and Region,1997

Gasoline, Diesel and Kerosene in Thousand Liters,

LPG, Oil and Lubricates, Coal and Wood in Metric Tons and Total Energy in Tera Joule

| Region | Total Energy | Energy Type | | | | | |
|-------------------|--------------|---------------|---------------------|------------|--------------|----------------|-------------|
| | | Coal and Wood | Oils and Lubricates | LPG | Kerosene | Diesel | Gasoline |
| West Bank -North | 160.6 | 182.5 | 15.2 | 0.0 | 186.9 | 4002.5 | 45.2 |
| West Bank -Middle | 1.7 | 0.0 | 0.5 | 1.9 | 1.2 | 16.5 | 25.7 |
| West Bank -South | 215.5 | 0.0 | 10.8 | 0.8 | 0.0 | 5796.8 | 17.8 |
| Gaza Strip | 81.1 | 0.0 | 0.2 | 0.5 | 130.2 | 2056.4 | 5.5 |
| Total | 458.9 | 182.5 | 26.7 | 3.2 | 318.3 | 11872.2 | 94.2 |

1997

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Table 17: Households Energy Consumption by Type of Energy and Month, 1997

Electricity in MegaWatt.hour, Gasoline Diesel and Kerosene in Thousand Liters,

LPG, Oil and Lubricates Coal and Wood in metric Tons and Total Energy in Tera Joule

| Month | Total Energy | Energy Type | | | | | | |
|------------------------------------|--------------|---------------|---------------------|--------------|--------------|-------------|---------------|----------------|
| | | Coal and Wood | Oils and Lubricates | LPG | Kerosene | Diesel | Gasoline | Electricity |
| January | 906 | 64 | 27 | 8479 | 2440 | 1059 | 6256 | 51675 |
| February | 1352 | 226 | 31 | 9575 | 4498 | 2158 | 10743 | 84656 |
| March | 1157 | 192 | 58 | 8816 | 4670 | 153 | 8194 | 81318 |
| April | 1177 | 182 | 74 | 6947 | 966 | 713 | 11215 | 110638 |
| May | 976 | 74 | 76 | 5623 | 390 | 435 | 9537 | 96703 |
| June | 979 | 381 | 49 | 5868 | 572 | 726 | 9047 | 93162 |
| July | 1218 | 47 | 98 | 5464 | 443 | 96 | 16303 | 108031 |
| August | 1006 | 62 | 37 | 6043 | 236 | 0 | 11055 | 93949 |
| September | 970 | 40 | 9 | 5885 | 497 | 0 | 7984 | 108042 |
| October | 1094 | 134 | 59 | 4971 | 355 | 369 | 13888 | 99580 |
| November | 1182 | 1247 | 46 | 6783 | 962 | 194 | 10374 | 119617 |
| December | 1359 | 611 | 38 | 7955 | 1774 | 2660 | 12691 | 106514 |
| Total | 13376 | 3260 | 602 | 82409 | 17803 | 8563 | 127287 | 1153885 |
| Monthly Average Consumption | 1115 | 272 | 50 | 6867 | 1484 | 714 | 10607 | 96157 |

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Table 18: Households Energy Consumption by Type of Energy and Region, 1997

Electricity in MegaWatt.hour, Gasoline Diesel and Kerosene in Thousand Liters,

LPG, Oil and Lubricates, Coal and Wood in Metric Tons and Total Energy in Tera Joule

| Region | Total Energy | Energy Type | | | | | | | |
|--------------------|--------------|---------------|---------------------|--------------|--------------|-------------|---------------|----------------|--|
| | | Coal and Wood | Oils and Lubricates | LPG | Kerosene | Diesel | Gasoline | Electricity | |
| West Bank – North | 3676 | 939 | 202 | 23809 | 5999 | 1278 | 33766 | 313266 | |
| West Bank – Middle | 3637 | 431 | 163 | 18621 | 5990 | 1602 | 41487 | 298922 | |
| West Bank – South | 2575 | 1481 | 112 | 15382 | 4461 | 5574 | 26489 | 163500 | |
| Gaza Strip | 3488 | 409 | 125 | 24597 | 1353 | 109 | 25545 | 378197 | |
| Total | 13376 | 3260 | 602 | 82409 | 17803 | 8563 | 127287 | 1153885 | |

1997– 1996

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Table 19: Household Annual Electrical Consumption and the Growth Rate by Region, 1996-1997

Electricity in MegaWatt.hour

| Region | % Growth Rate % | Year | |
|------------------------------|-----------------|----------------|---------------|
| | | 1997 | 1996 |
| West Bank-North | 60 | 313266 | 195690 |
| West Bank-Middle | 41 | 298922 | 211883 |
| West Bank-South | 52 | 163500 | 107856 |
| Gaza Strip | 39 | 378197 | 271573 |
| Palestinian Territory | 47 | 1153885 | 787002 |

1997-1996

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Table 20: Households Annual Total Energy Consumption and Growth Rate by Region, 1996-1997

Total Energy in Tera Joule

| Region | % Growth Rate % | Year | |
|------------------------------|-----------------|--------------|-------------|
| | | 1997 | 1996 |
| West Bank-North | 40 | 3676 | 2628 |
| West Bank-Middle | 29 | 3637 | 2809 |
| West Bank-South | 52 | 2575 | 1694 |
| Gaza Strip | 37 | 3488 | 2544 |
| Palestinian Territory | 38 | 13376 | 9675 |

1997– 1996

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Table 21: Change in Energy Purchase's for Industrial Activities by Region, 1996-1997

Total Energy in Tera Joule(TJ)

| Region | Year | |
|------------------------------|-------------|-------------|
| | 1997 | 1996 |
| West Bank-North | 1212 | 923 |
| West Bank-Middle | 962 | 560 |
| West Bank-South | 1428 | 1083 |
| Gaza Strip | 1029 | 574 |
| Palestinian Territory | 4631 | 3141 |

1997-1996

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Table 22: Change in Energy Purchases in Economic Activities by Region, 1996-1997

Total Energy in Tera Joule

| Region | Year | | |
|------------------------------|-------------|-------------|--|
| | 1997 | 1996 | |
| West Bank-North | 1351 | 737 | |
| West Bank-Middle | 1513 | 1063 | |
| West Bank-South | 1175 | 562 | |
| Gaza Strip | 1159 | 1028 | |
| Palestinian Territory | 5198 | 3390 | |

1997

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Table 23: Energy Prices in NIS by Region, Period and Type of Energy, 1997

| Region | Period | Energy Type | | | | | | | | |
|------------|-----------------------------|---------------|---------------------|-------------|-------------|-------------|-------------|-------------|---|--|
| | | Wood and Coal | Oils and Lubricates | LPG | Kerosene | Diesel | Gasoline | Electricity | | |
| West Bank | January – February | 2.57 | 8.01 | 1.88 | 1.35 | 1.31 | 3.06 | 0.48 | - | |
| | March – April | 2.75 | 8.30 | 2.01 | 1.17 | 1.21 | 3.23 | 0.44 | - | |
| | May – June | 2.75 | 8.43 | 2.02 | 1.18 | 1.22 | 3.25 | 0.44 | - | |
| | July – August | 3.00 | 8.67 | 2.02 | 1.19 | 1.23 | 3.28 | 0.44 | - | |
| | September – October | 3.00 | 8.67 | 2.00 | 1.21 | 1.27 | 3.40 | 0.44 | - | |
| | November – December | 4.00 | 8.67 | 2.04 | 1.23 | 1.32 | 3.37 | 0.44 | - | |
| | Average Annual Price | 3.01 | 8.46 | 2.00 | 1.22 | 1.26 | 3.27 | 0.45 | | |
| Gaza Strip | January – February | 3.10 | 8.43 | 1.81 | 1.30 | 1.31 | 3.06 | 0.38 | - | |
| | March – April | 2.86 | 7.75 | 1.82 | 1.18 | 1.21 | 3.24 | 0.38 | - | |
| | May – June | 2.94 | 8.03 | 1.83 | 1.18 | 1.22 | 3.23 | 0.38 | - | |
| | July – August | 3.00 | 8.32 | 1.82 | 1.20 | 1.25 | 3.25 | 0.38 | - | |
| | September – October | 3.00 | 8.42 | 1.75 | 1.20 | 1.23 | 3.40 | 0.39 | - | |
| | November – December | 3.00 | 8.45 | 1.83 | 1.26 | 1.36 | 3.39 | 0.39 | - | |
| | Average Annual Price | 2.98 | 8.23 | 1.81 | 1.22 | 1.26 | 3.26 | 0.38 | | |

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Table 23 (Continued): Energy Prices in NIS by Region, Period and Type of Energy, 1997

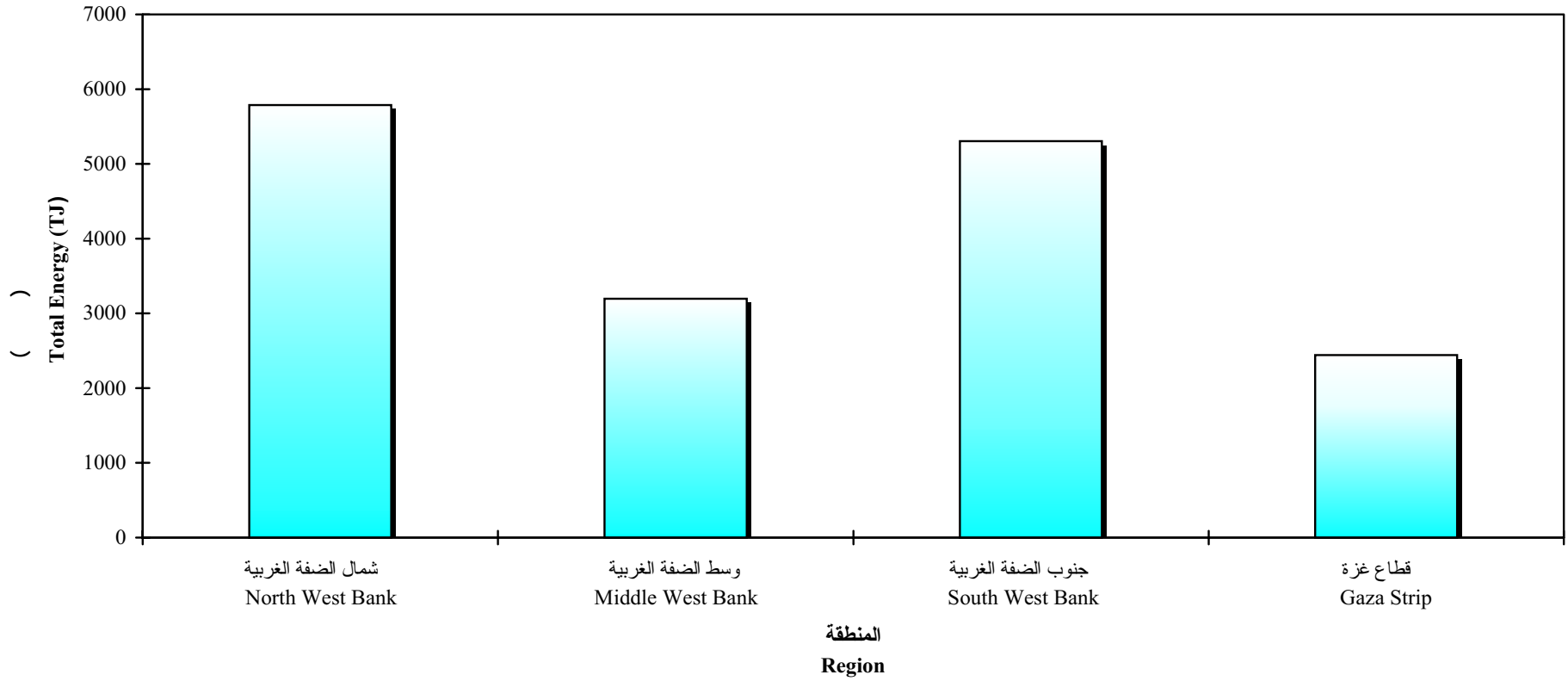
| Region | Period | Energy Type | | | | | | | | |
|--|-----------------------------|---------------|---------------------|-------------|-------------|-------------|-------------|-------------|---|--|
| | | Wood and Coal | Oils and Lubricates | LPG | Kerosene | Diesel | Gasoline | Electricity | | |
| Jerusalem | January – February | 3.50 | 9.21 | 2.12 | 1.30 | 1.27 | 3.05 | 0.35 | - | |
| | March – April | 3.50 | 9.21 | 2.28 | 1.16 | 1.21 | 3.24 | 0.35 | - | |
| | May – June | 3.50 | 9.21 | 2.42 | 1.18 | 1.23 | 3.10 | 0.35 | - | |
| | July – August | 3.50 | 9.21 | 2.50 | 1.19 | 1.25 | 3.32 | 0.35 | - | |
| | September – October | 3.50 | 9.21 | 2.29 | 1.20 | 1.28 | 3.41 | 0.35 | - | |
| | November – December | 3.50 | 9.21 | 2.29 | 1.22 | 1.30 | 2.80 | 0.35 | - | |
| | Average Annual Price | 3.50 | 9.21 | 2.32 | 1.21 | 1.26 | 3.15 | 0.35 | | |
| Average Annual Price in the Palestinian Territories | 3.16 | 8.63 | 2.04 | 1.22 | 1.26 | 3.23 | 0.39 | | | |

Figures

1997

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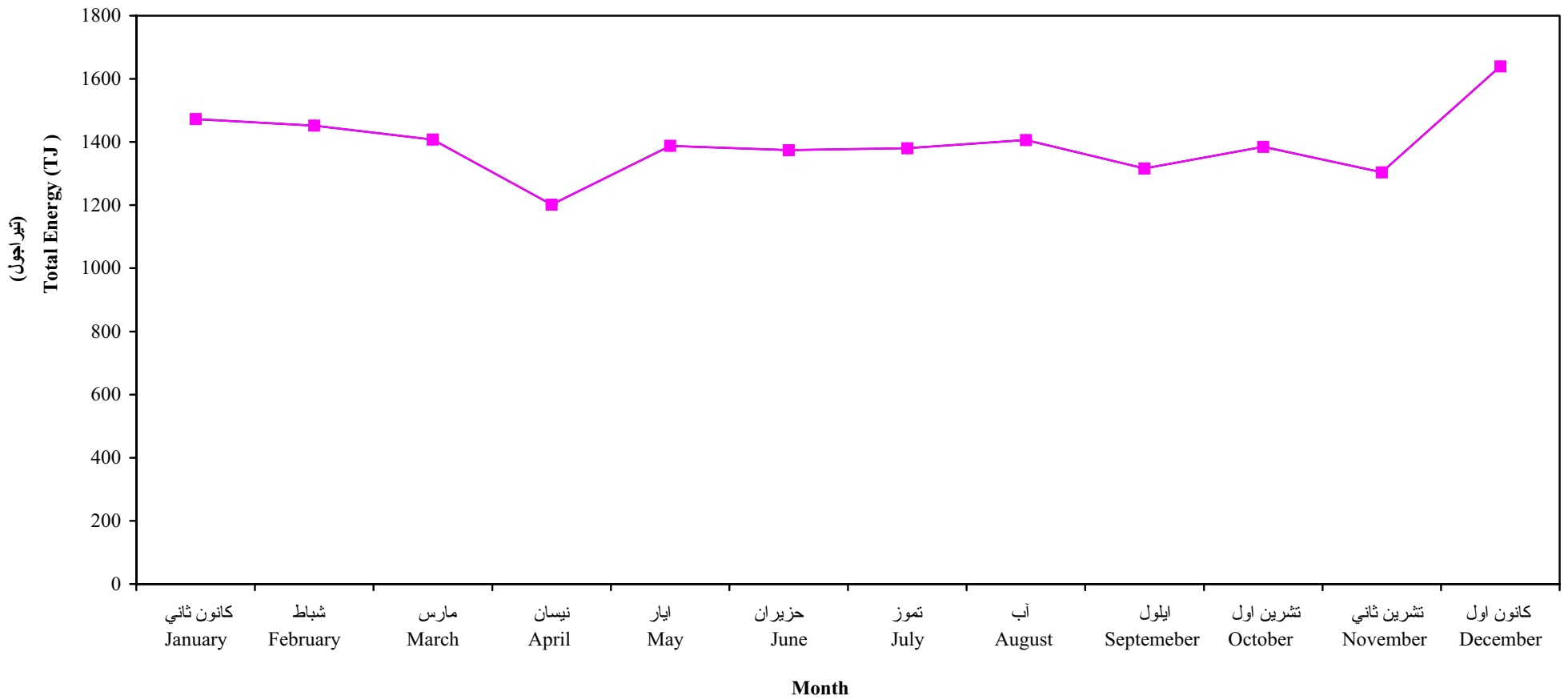
Figure 1: Total Re-exported Energy in Remaining West Bank and Gaza Strip by Region, 1997



1997

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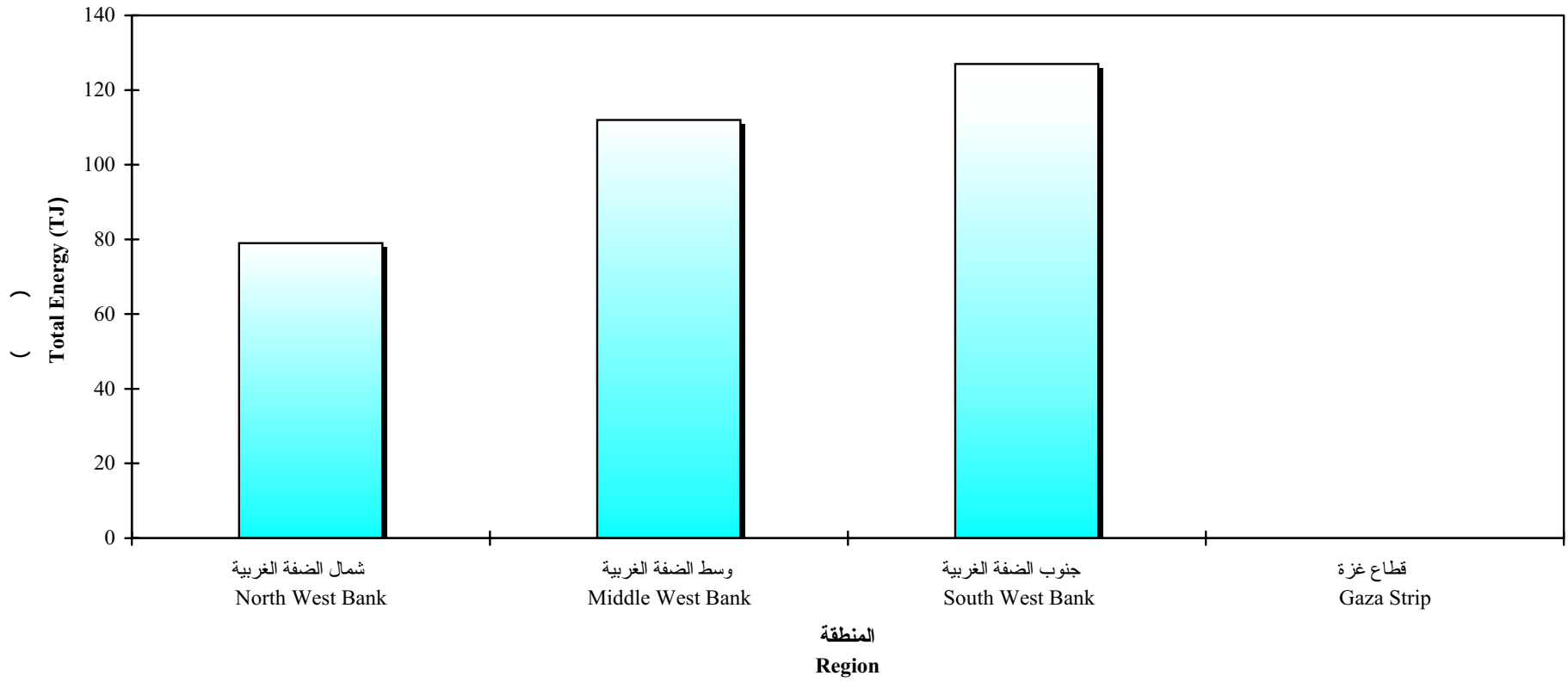
Figure 2: Imported Energy in Remaining West Bank and Gaza Strip by Month, 1997



1997

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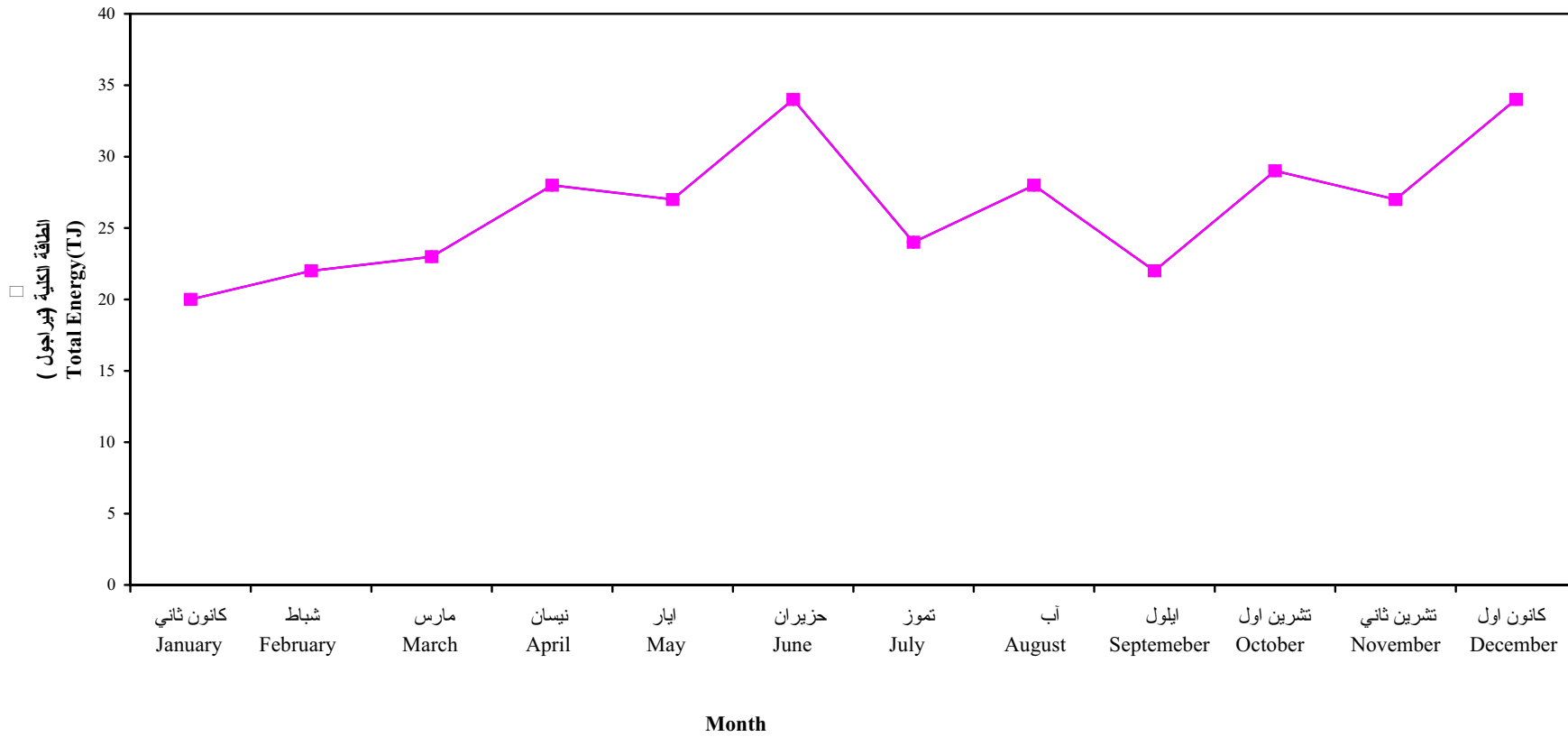
Figure 3: Total Re-exported Energy in Remaining West Bank and Gaza Strip by Region, 1997



1997

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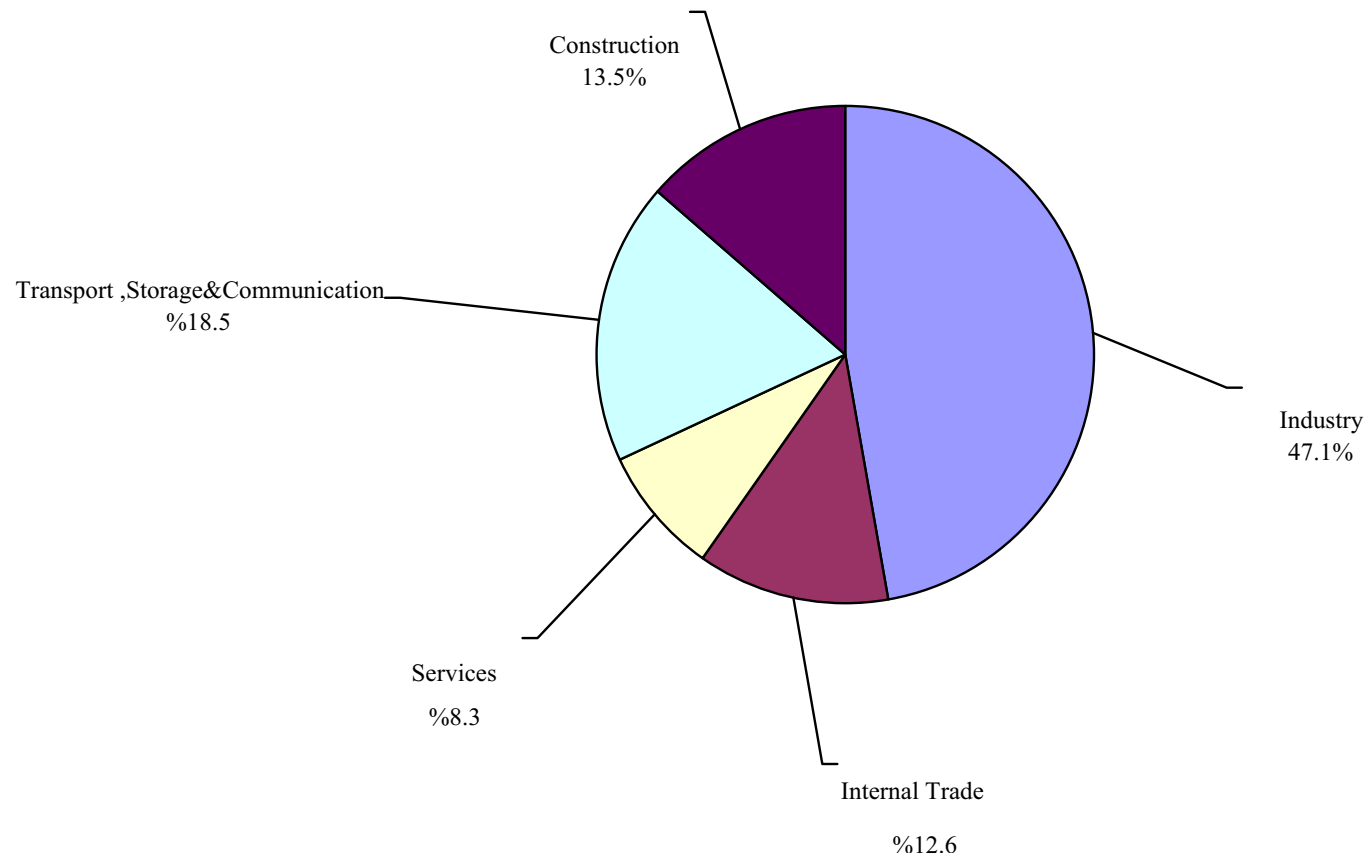
Figure 4: Total Re-Exported Energy in Remaining West Bank and Gaza Strip by Month, 1997



1997

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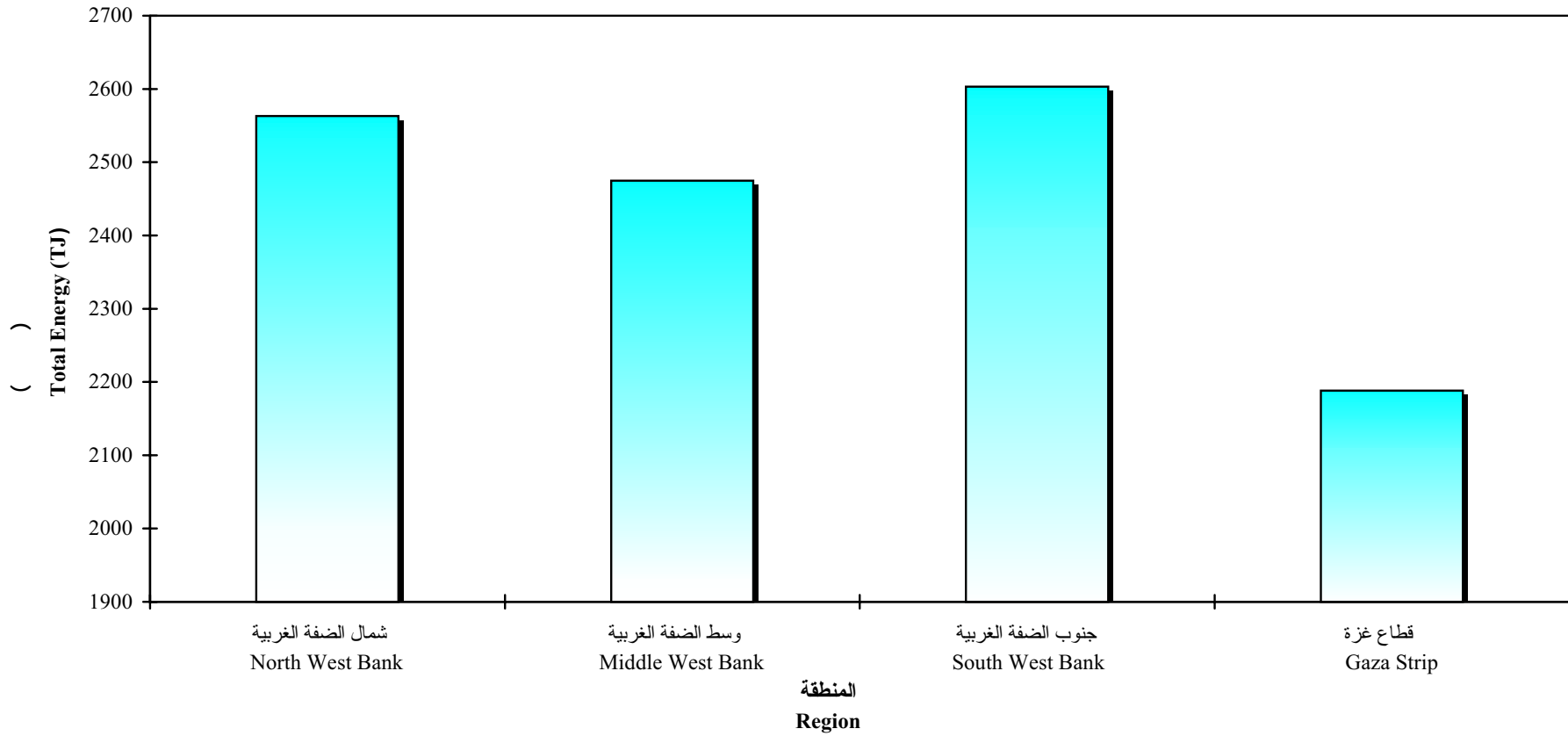
Figure 5: Total Energy Purchases in Economic Activities in Palestinian Territory by Active, 1997



1997

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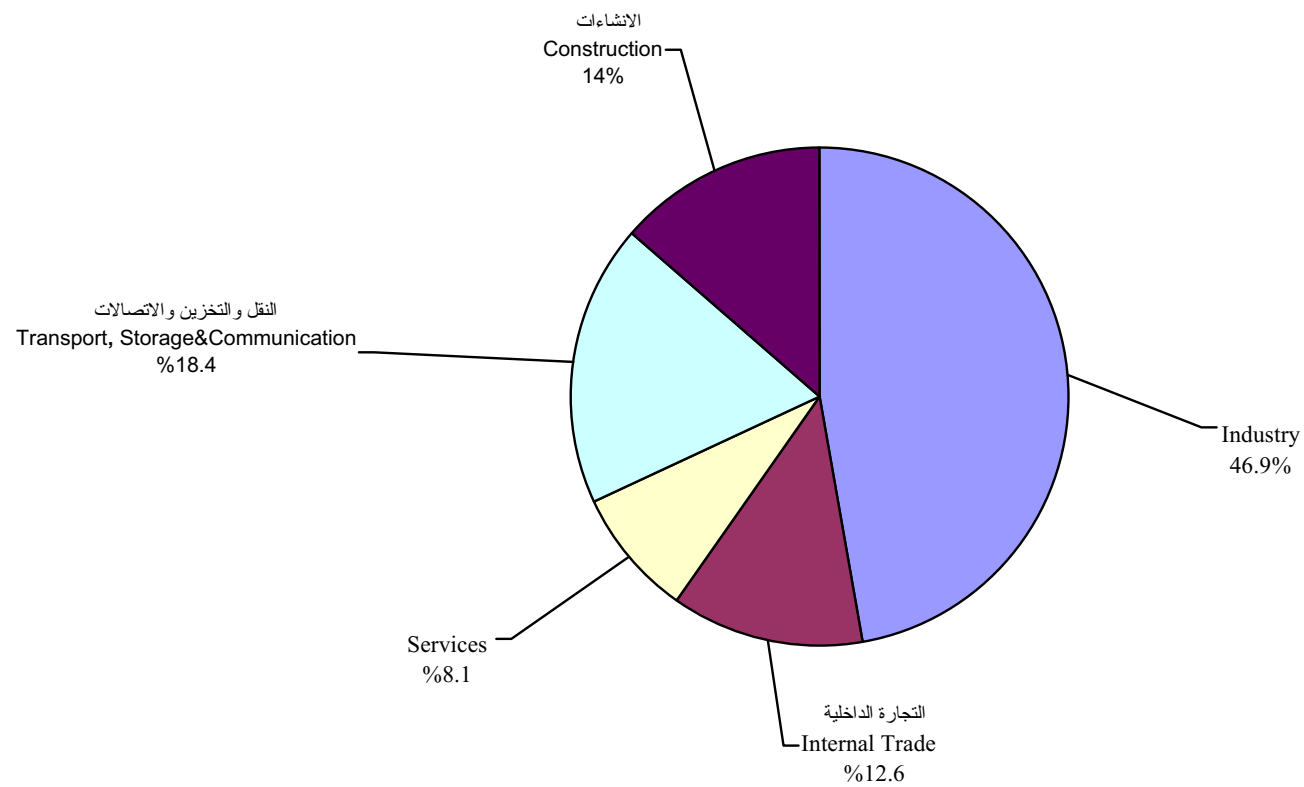
Figure 6: Total Energy Purchases in Economic Activities in Palestinian Territory by Region, 1997



1997

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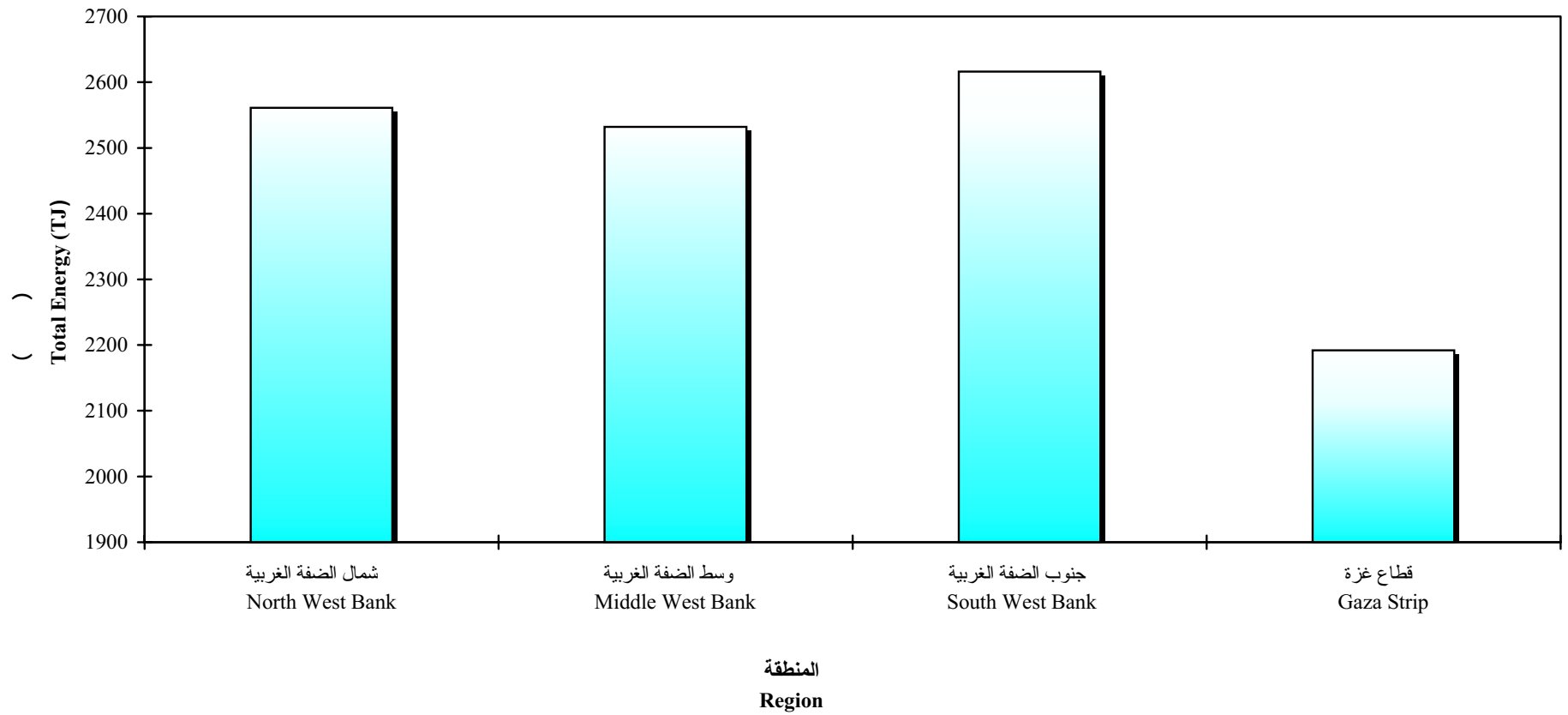
Figure 7: Total Energy Used for Production in Economic Activities in Palestinian Territory by Active, 1997



1997

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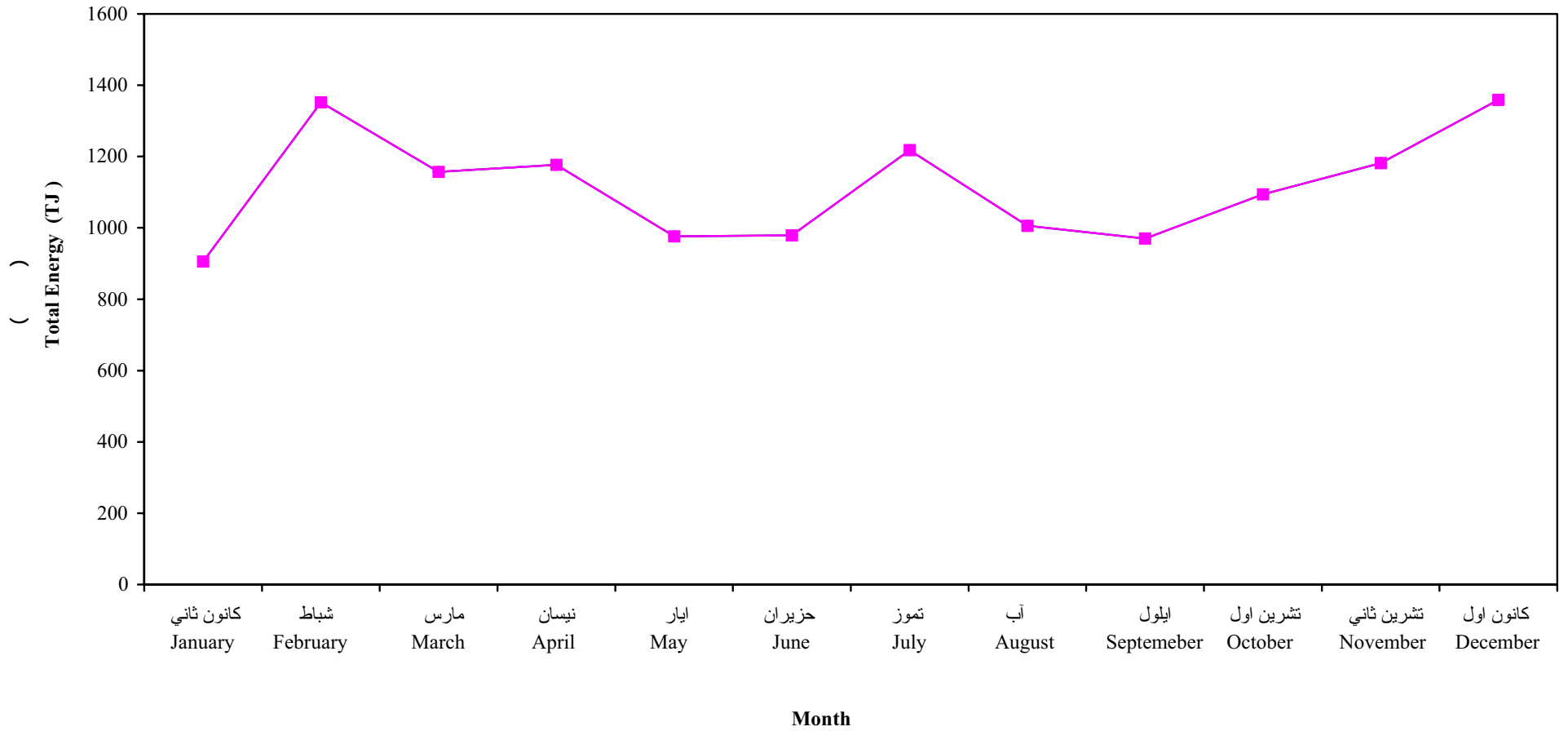
Figure 8: Total Energy Used for Production in Economic Activities in Palestinian Territory by Region, 1997



1997

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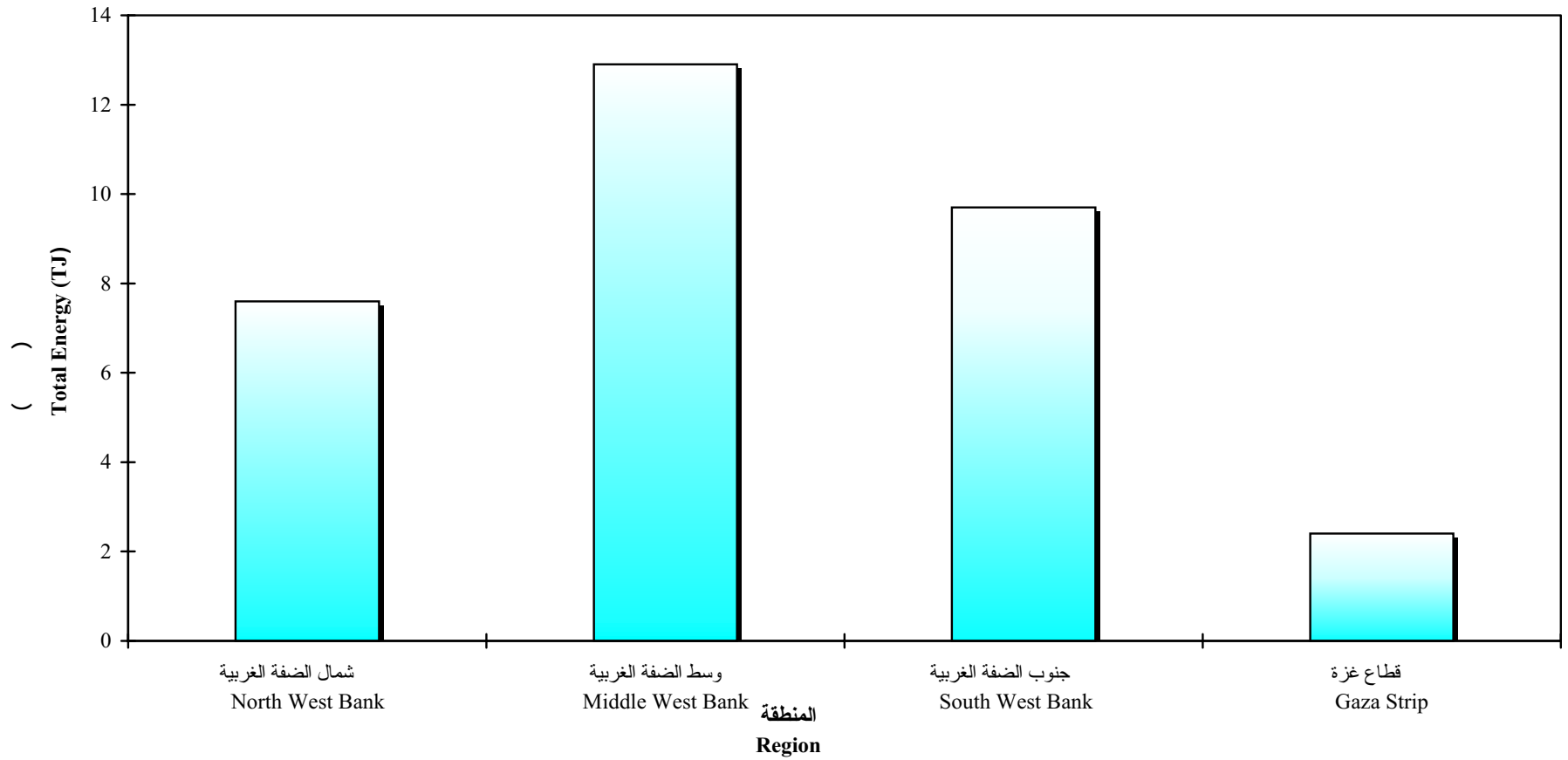
Figure 9: Households Total Energy Consumption in Palestinian Territory by Month, 1997



1997

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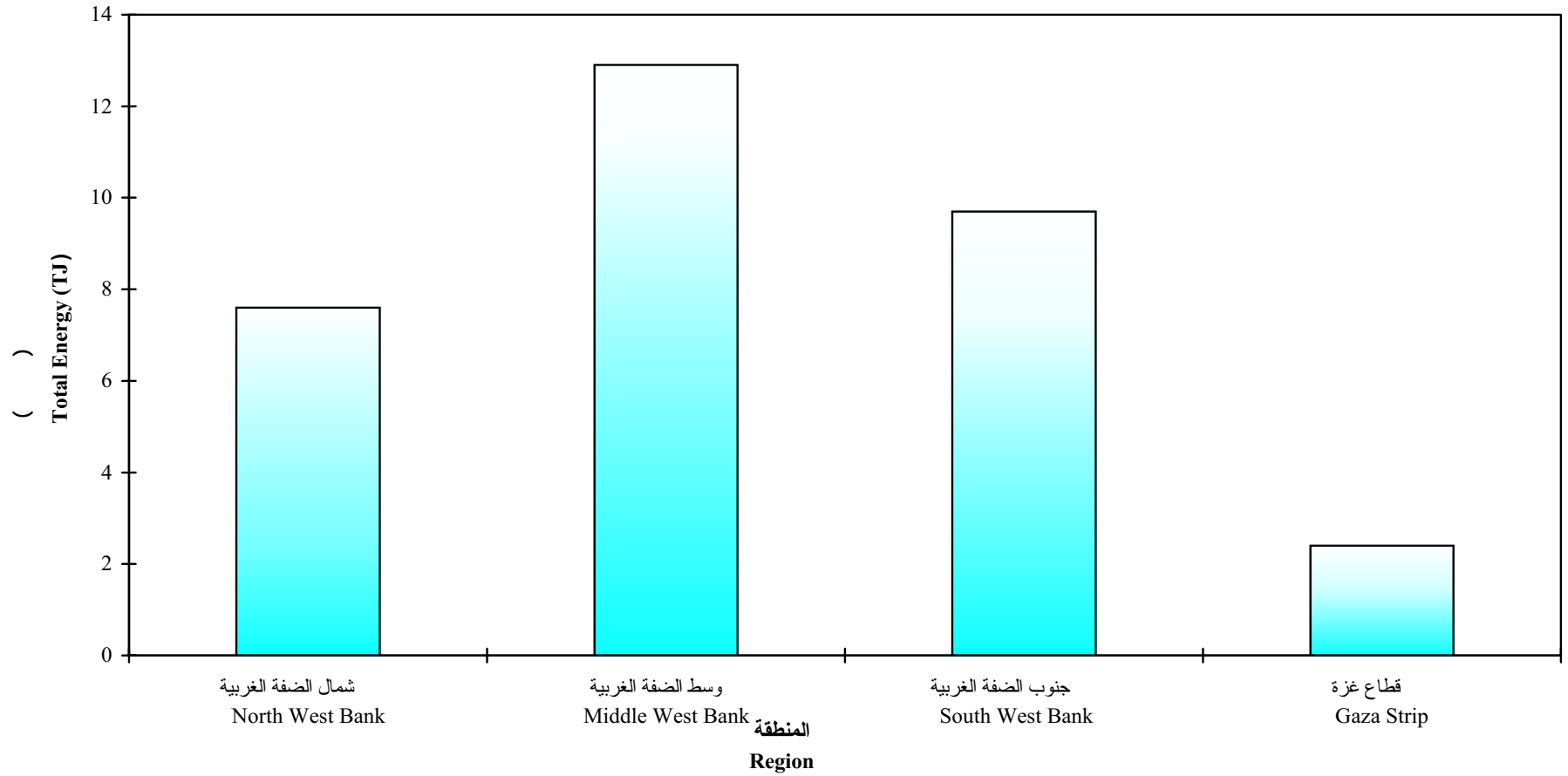
Figure 10: Households Total Energy Consumption in Palestinian Territory by Region, 1997



1997

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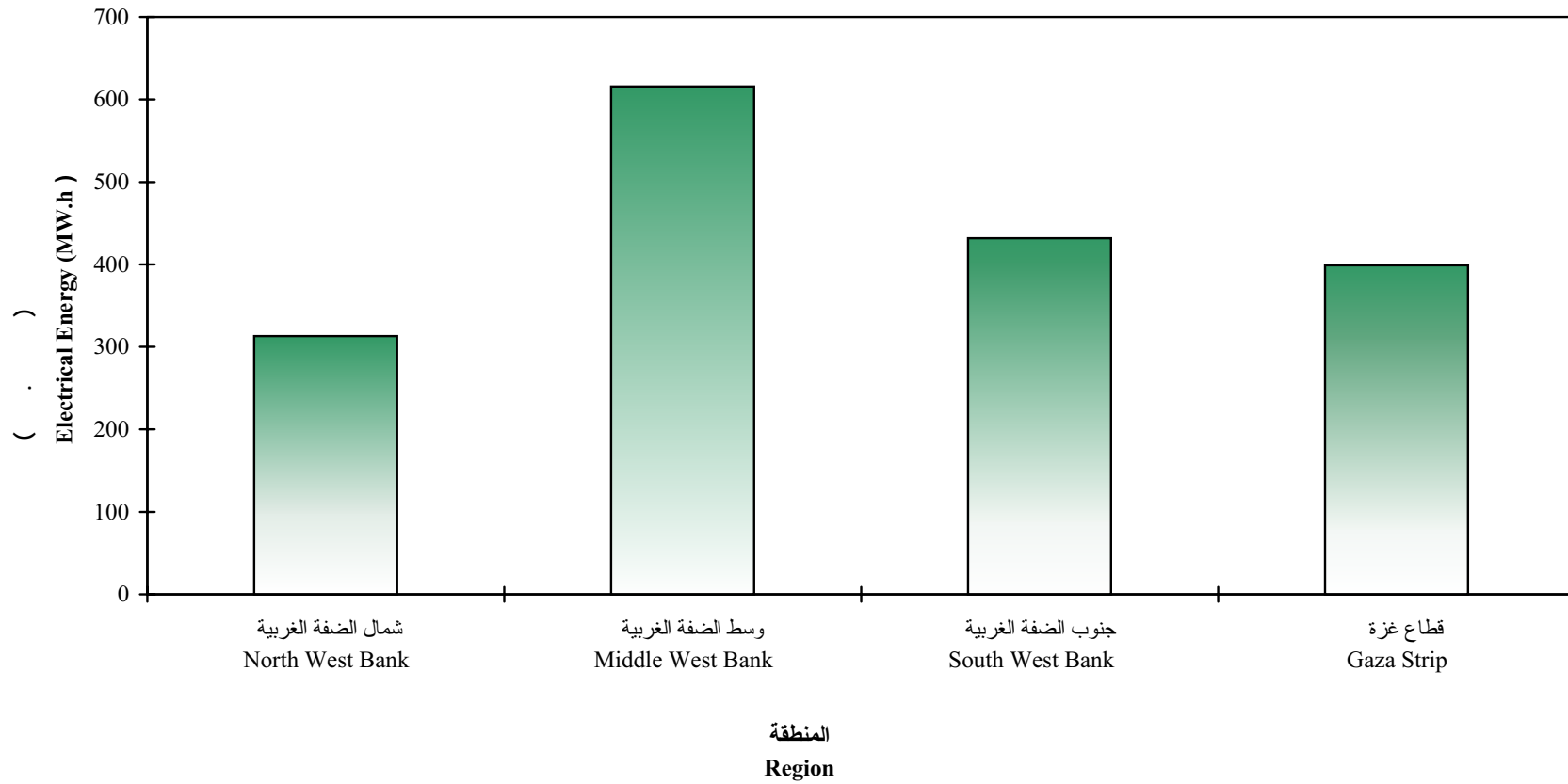
Figure 11: Average Per Capita of Total Energy Consumption by Region, 1997



1997

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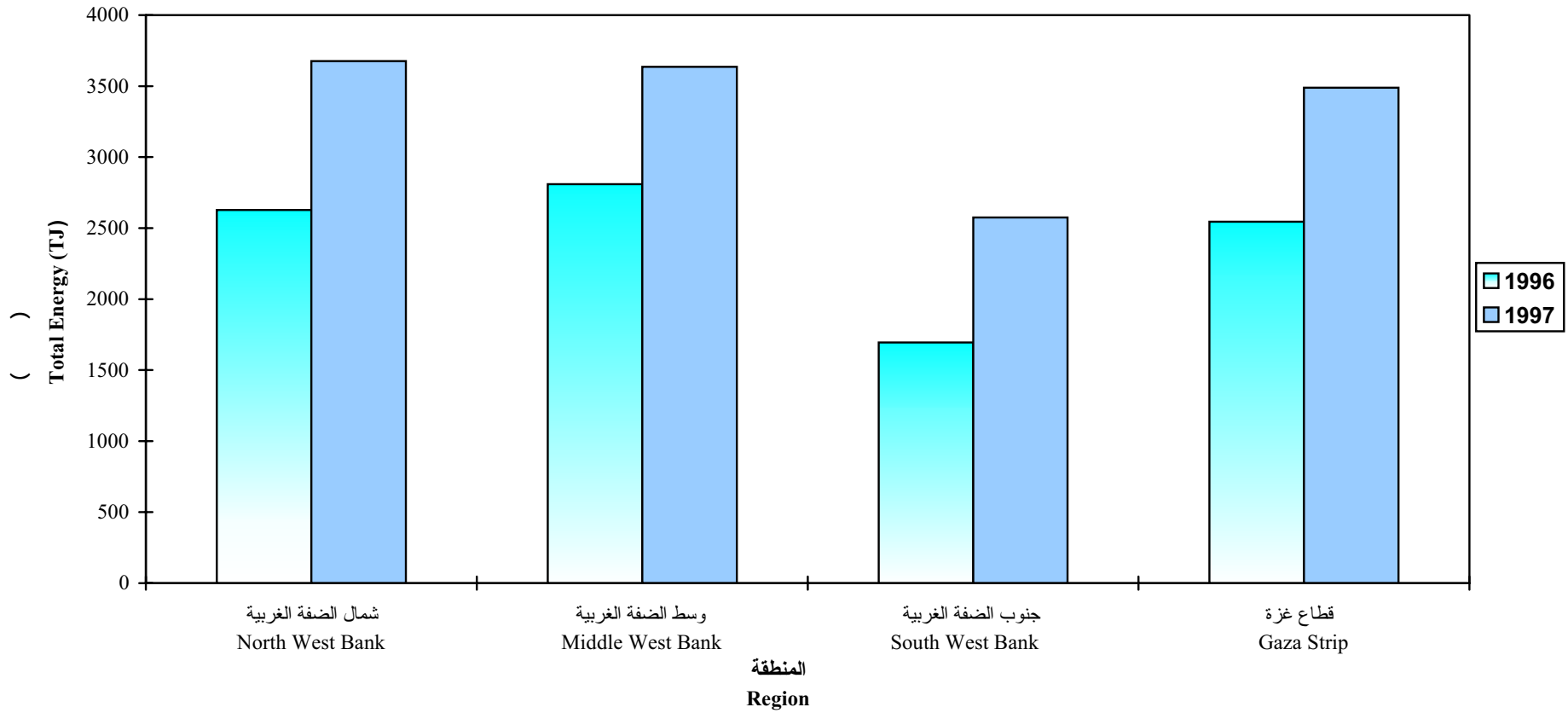
Figure 12: Average Per Capita of Electrical Energy Consumption by Region, 1997



1997 , 1996

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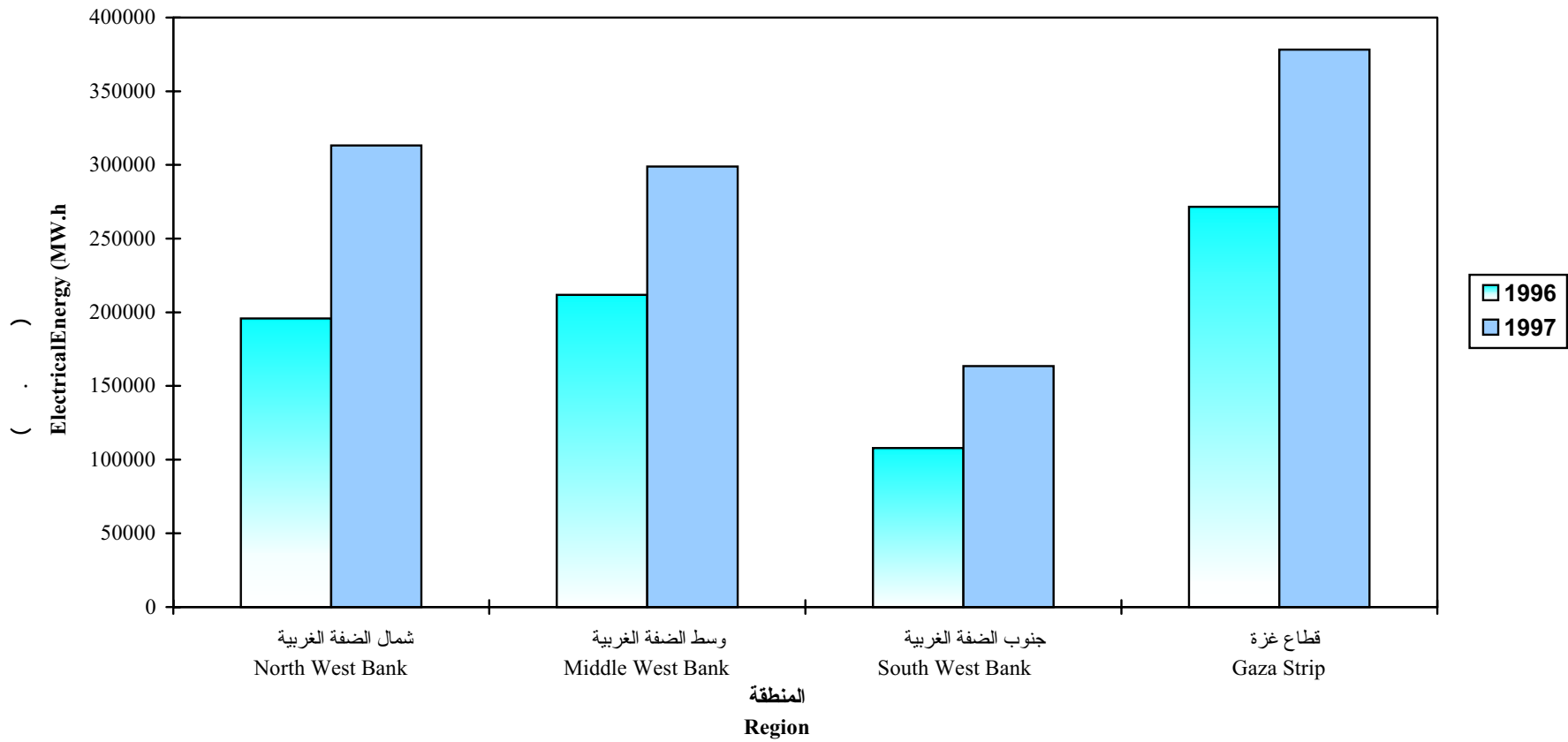
Figure 13: Growth in Households Annual Total Energy Consumption by Region, 1996 , 1997

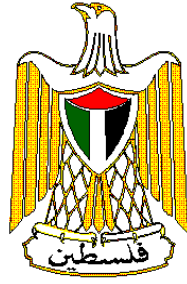


1997 , 1996

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Figure 14: Growth in Households Annual Electrical Energy Consumption by Region, 1996 , 1997





Palestinian Central Bureau of Statistics

Energy Consumption in the Palestinian Territory Annual Report 1997

June, 2000

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Preface

Undoubtedly, availability of reliable statistical data on energy consumption is a major input in planning and development process. Most countries pay special attention for energy statistics due to the important role of energy in reflecting the situation of the infrastructure. Energy statistics provide basic information on economic situation, environmental indicators and the level of living in the society. Energy issue is extremely important in Palestine, due to the shortage of natural resource accompanied with the high population density.

PCBS is very pleased to introduce the second annual report of energy consumption for the reference year 1997. Statistical data provided in this report was derived from surveys and other statistical activities conducted by PCBS. The data was derived from Palestinian expenditure and consumption survey (PECS), as well as the statistical economic surveys series. Other data was derived from foreign trade and price statistics at PCBS.

This report presents statistical data on the basic indicators related to energy consumption in different economic activities. Also, the report provides data on energy consumption in the domestic sector in the Palestinian Territory including the consumption of electricity, biomass and petroleum products.

It is worth noting that this report is a step toward establishing the energy balance in the Palestinian Territory. We hope that this report will contribute in bridging the data gap in energy statistics and in providing useful data for the main data users.

July, 2000

**Hasan Abu-Libdeh, Ph.D.
President**

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Executive Summary

1. Introduction:

Energy is considered of a great importance due to its role in reflecting the economy, the people welfare and the level of living. Also, energy data reflect infrastructure situation.

The data of this report is based on the administrative records and the data extracted from surveys performed by the Palestinian Central Bureau of Statistics (PCBS). This report provides data about energy consumption of the different activities.

This report aim to achieve the following objectives:

1. Contribute to providing essential data for establishing energy balance in the Palestinian Territory.
2. Provide necessary data for research and analysis purposes.
3. Provide necessary data for policy makers and interested persons in the field of energy.

The report provides data on the following indicators:

1. Energy imports and exports in the Palestinian Territory by type of energy and region.
2. Energy consumed by economic sectors in the Palestinian Territory.
3. Energy used for Electricity generation in economic sector in the Palestinian Territory.
4. Energy losses and stock change by economic activity in the Palestinian Territory.
5. Growth in the total energy consumption in Palestinian Territory between 1996-1997.

2. Concepts and Definitions:

This part presents the main concepts and definitions based on the international recommendations in the field of energy statistics.

The main concepts and expressions mentioned in this report were as follows:

Fuel: Any matter used for producing energy via thermal, chemical or nuclear interaction.

Gasoline: Gasoline is a hydrocarbon fuel used mainly in internal- combustion engines. This fuel is obtained via filtration of crude oil. The quality of this type of fuel is measured by the octane number (from 0 to 100), which points to its resistance of early burning. This number is obtained via comparing the performance of its resistance of early burning with a mixture of C^7H^{16} and C^8H^{18} . For instance, the

performance of “Gasoline 95” equals the performance of a mixture of 95% C^8H^{18} and 5% C^7H^{16} .

Diesel: Diesel is a hydrocarbon fuel mainly used in several types of internal- combustion engines and furnaces. This fuel is obtained via filtration of crude oil.

Kerosene: Kerosene is a hydrocarbon fuel used mainly as a heating fuel and in planes internal- combustion engines. It is also used as a dissolvent and thinner. This fuel is obtained via partial filtration of crude oil.

Gas Oil: It is obtained from the remains of filtration. It burns under more than $50\text{ }^{\circ}\text{C}$. Its quantitative density exceeds 0.9. Normally, it is of two types: Heavy gas oil and light gas oil. Gas oil is used mainly as a fuel for ships internal- combustion engines and big furnaces.

Liquefied Petroleum Gas (LPG): It is mainly used in heating and cooking as well as a fuel in some types of engines and as a raw material for chemical industries. Usually it is marketed in cylinder metallic packages. This gas is comprised of a mixture of gases, e.g. C^3H^8 and C^4H^{10} . It is obtained from natural gas or via fractionation of crude petroleum.

Wood: Refers to all wood used in rough used for fuel purposes.

Energy Imports: Refers to the amount of energy obtained from other countries.

Energy Re-Exports: Refers to energy obtained from other countries and supplied to other countries without making any type of processing in the shape.

Household Consumption: Covers all fuel consumed by households for housing purposes (water heating, heating, lighting, cooking, space conditioning,.....etc).

Electric Energy: Work done to move an electric charge in a conductor. It is measured in kilowatt-hour.
Electric Energy = Power (kW) * Time (Hours).

Joule Unit: Energy unit, it is defined as the energy resulting from the movement of a one-Newton body to a distance of one meter. 1 Joule = 1 Newton. m.

Metric Ton Unit: Mass unit, a Metric ton = 1000 kg.

Kilo Watt-Hour: Energy unit, a 1 kWh-H = 1000 Wh × 3600 Second
= 3.6 × 10⁶ Watt.second
= 3.6 Megawatt

Other prefixes are used for referring to this unit, e.g. Giga, which equals 10⁹.

Energy Conversion

Factors: For energy calculations, it is useful to convert quantities from original units into a common unit for the purpose of aggregating diverse energy sources. The coefficient used for this conversion is called a conversion factor.

Remaining West Bank West Bank Excluding those part of Jerusalem annexed by Israel in 1967.

West Bank-North: Includes Jenin, Nablus, Tulkarm, Qalqilia governorates, Salfit and Tubas region

West Bank-Middle: Includes Jerusalem, Ramallah and AL-Bireh, and Jerich governorates.

West Bank-South: Includes Betlehem, and Hebron governorates.

3. Main Findings:

This section presents the main findings of the report, including energy imports and re-exports as well as the energy purchases, the energy used in production, losses by economic activity.

3.1 Energy Imports and Re-exports:

The main findings of the report indicate that the total energy imports in the Palestinian Territory in 1997 were estimated to 16,728TJ. This amount of energy was composed of 1,030,610 MWh of electricity, 15,992 tons of LPG, 182,744 thousand liters of Diesel, 141,054 thousand liters of Gasoline, 10,502 thousand liters of Kerosene, and 9,072 tons of Coal and Wool.

The distribution of total energy imports over time indicates that the highest quantity of energy imports was 1,640 TJ in Dec,1997 and the lowest quantity of energy imports was 1,202 TJ in April 1997, on the other hand the distribution of energy imports by region indicate that the highest quantity of energy imports was 5,786TJ in North West Bank and the lowest quantity of energy imports was 2,442 TJ in Gaza Strip(*table 1 and 2*).

The main finding of the report indicate also that the total re-exported energy in the Palestinian Territory in 1997 was estimated to 318 TJ, This amount of energy was composed of 8 Tons of LPG, 7,076 thousand liters of Diesel, 548 thousand liters of Gasoline, 5 thousand liters of Kerosene, and 1,859 tons of coal and wood. The distribution of total re-exported energy overtime indicate that the highest quantity of Re- exported energy was 34TJ in both June and December 1997, and the lowest quantity of Re-exported energy was 20 TJ in January 1997.

On the other hand, the distribution of re-exported energy by region indicate that the highest quantity of re-exported energy was 127 TJ in south west bank, while there was no re-exported energy in Gaza Strip.(*table 3 and 4*).

The results show that 1.9% of total energy imported in the Palestinian Territory in 1997 was re-exported. This amount was composed of 0.05% LPG, 3.9% Diesel 0.05% of Kerosene, 0.39% Gasoline and 20.5% of Coal and Wood.

3.2 Energy Purchases:

The main findings of the report indicates that total energy purchases in economic activities in the Palestinian Territory in 1997 were estimated to 9,829TJ.

This amount of energy was composed of 429,360 MWh of electricity, 10,324 Ton of LPG, 176,269 thousand liters of Diesel, 23,217 thousand liters of Gasoline, 4,015 thousand liter Kerosene, 3,994 Tons of Oils and Lubricate, 2,232 Tons of Coal and Wood.

The distribution of total energy purchases by economic activity indicates that the highest quantity of energy purchases was 4,631 TJ in industry, and the lowest quantity of energy purchases was 805TJ in services (*Table 6 and 8*). On the other hand, the distribution of total energy purchases by region indicates that the highest quantity of energy purchases was 2,603TJ in South West Bank and the lowest quantity was 2,188 TJ in Gaza Strip.

The relative distribution of energy purchases by economic activity show that 47.1% of energy purchases in industry, 12.6% in internal trade, 8.3% in services, 13.5% in construction and 18.5% in transport, storage and communication activities.

3.3 Energy Used for Production:

The results show that the total energy used for production in the Palestinian Territory in 1997, was estimated 9,901 TJ, this amount of energy was composed of 429,312 MWh of Electricity, 10,283tons of LPG, 178,104 thousand liter of Diesel, 23,283 thousand liter of Gasoline, 4,026 thousand liters of Kerosene, 4,075 Tons of Oils and Lubricates, 2,246 Tons of Coal and Wood.

The distribution of total Energy used for production by industrial activity indicates that the highest quantity of energy used for production was 4,646TJ in industry and the lowest quantity of energy used for production 806TJ in services. The distribution of the total energy used for production by region indicates that it reached 2,616 TJ in South West Bank and 2,192 TJ in Gaza Strip(*Table 10 and 12*).

The percent of Energy used in production is distributed by economic activity by 46.9% in industry, 12.6% in internal trade, 8.1% in services, 14% in construction and 18.4% in transport storage and communication.

3.4 Energy Losses:

It is indicated from the results that the total energy losses in economic activity in the Palestinian Territory in 1997 was estimated by 1.6TJ, this amount of energy was composed of 22.7 Tons of LPG, 9.3 thousand liter of Diesel, 1.6 thousand liter of Gasoline, 4.2 thousand

liters of Kerosene, 0.1 tons of Coal and Wood, 0.8 tons of Oils and Lubricates. The distribution of energy losses by region indicates that the highest quantity of losses was amounted to 1.1 TJ in South West Bank, and there is not any losses in Middle West Bank and Gaza Strip (*Table 13 and 14*).

3.5 Energy Used in Generating Electricity:

The total energy used in generating electricity reached 458.9 TJ. The quantities of fuel used were as follows: Gasoline 94.2 thousand Liters, Diesel 11,872.2 thousand Liters, Kerosene 318.3 thousand Liters, LPG 3.2 Tons, Coal and Wood 182.5 Tons and Oils and Lubricates 26.7 Tons.

The energy used in generating electricity in the industrial activities was the highest, where it reached 393.4 TJ, while it did not exceed 14.5 TJ in services activity.

The energy used in generating electricity distributed by economic activity was as follows: 85.7% in industry, 3.2% in internal trade, 1.7% in services, 9.4% in construction while there was not any generating for Electric energy in transport storage and communication sector (*table 15*).

The highest quantity of energy used in generating electricity was recorded in South West Bank 215.5 TJ, while it doesn't exceeds in Middle West Bank more than 1.7 TJ.

3.6 Domestic Energy Consumption:

The main findings of the report indicate that the total domestic energy consumption in the Palestinian Territory in 1997 was estimated 13,376 TJ, This amount of energy was composed of 1,153,885 MWh, of Electricity, 82,409 Tons of LPG, 8,563 thousand liters of Diesel, 127,287 thousand liters Gasoline, 17,803 thousand of liters Kerosene, 603 tons of Oils and Lubricates and 3,260 Tons of Wood and Coal.

The distribution of total domestic energy consumption by month indicates that the highest quantity of domestic energy consumption was 1,359 TJ in December, and the lowest quantity of domestic energy consumption was 906 in January.

3.7 Average Per Capita Energy Consumption:

The results show that the per capita average energy consumption in the Palestinian Territory (Does not include those parts of Jerusalem which were annexed by Israel in 1967) in 1997 was estimated to 6.5 GJ, and that the average consumption per capita from electrical energy was 401 KW.h, while the highest quantity of the average consumption per capita from the total consumed energy and electrical energy was in the Middle West Bank where it reached 12.9 GJ and 616 KW.h respectively, while in the South West Bank it reached 9.7 GJ and 432 KW.h respectively, and in the North West Bank it reached 7.6 GJ and 313 KW.h. Regarding Gaza Strip the average total energy per capita consumption and electrical energy did not exceed 2.4 GJ and 399 KW.h respectively.

3.8 Annual Growth Rate in Energy Consumption in the Palestinian Territory 1996-1997:

The growth rate consumption from total energy in household sector in the Palestinian Territory during 1996– 1997 was approximately 38%, The highest percent was recorded in South West Bank 52%, while it reached in North West Bank 40% , 29% in Middle West Bank and 37% in Gaza Strip(Table 19).

While the growth rate in electrical energy consumption in household sector during 1996 – 1997 was about 47%.The highest rate was recorded as 60% in North West Bank, while it reached 52% in South West Bank, 41% in Middle West Bank and 39% in Gaza Strip (Table 20)

The energy purchases in industrial activities reached 4631 TJ in 1997 while it was 3141 TJ in 1996. For the quantity of energy purchases in economic activities it reached 5198 TJ and 3390 TJ in 1997 and 1996 respectively. (Table 21,22)

3.9 Price of Energy in Palestinian Territory:

The prices of energy are different from one governorate to another, this difference refers to the control of Israeli Authority on energy sources. The average annual price in the Palestinian Territory is distributed as follows: Electricity 0.39 NIS\ MW.h, Gasoline 3.23 NIS\ Liter, Diesel 1.26 NIS\ Liter, Kerosene 1.22 NIS\ Liter, LPG 2.04 NIS\ Kg, Oils and Lubricates 8.63 NIS\ Kg, Wood and Coal 3.16 NIS\ Kg (Table 23).

4. Methodology:

This section presents a documentation of the main characteristics of the methodology used in preparing this report. The statistical data was derived from various data sources. The data sources are classified into two types: statistical surveys and administrative records. The three main data sources are as following:

4.1 Foreign Trade Statistics

The main objective of the foreign trade statistics is to cover data related to flowing of goods to the Palestinian Territory. Foreign trade statistics data were used to obtain data related to the imports and re-exports of the different energy types.

4.2 Economic Surveys

The main objective of these surveys is to collect data on the basic economic indicators covering the main economic activities (industry, internal trade, service, transport, storage and communication and construction). Data related to production inputs of goods were used to provide data on energy purchases, energy used in production, energy used in generating Electricity and losses in the different economical activities.

4.3 Palestinian Expenditure and Consumption Survey (PECS)

The main purpose of this survey is to provide national level information on standards of living and patterns of consumption and expenditure among Palestinian households in the West Bank

and Gaza Strip. Data related to household expenditure and consumption of the different energy types was utilized to provide estimates on household energy consumption.

It is important to mention that population estimate in 1997 and price statistics were used in the stage of data processing of the statistical tables.

In preparing the statistical tables, the following points were taken into consideration:

1. The main consumption sectors were classified into household sector, industry, internal trade, service, transport storage and communication and construction.
2. International energy conversion factors were used to convert the different types of energy into a common energy unit (Joule).

5. Data Quality:

This section provides important notes concerning the statistical quality of data. This includes data quality as compiled by data sources, in addition to special technical notes, which should be taken into consideration.

5.1 Data Sources:

5.1.1 Foreign Trade Statistics:

Methodology and data processing of foreign trade statistics are consistent with international standards and recommendation. These data are trustable due to the fact that these data are compiled by comprehensive enumeration of data. But it is worth mentioning the following important notes:

1. Data excludes the quantities entered the Palestinian Territory in illegal cases .
2. Data does not cover the quantities that are not included in interchange between Israel and Palestinian National Authority (about20% of the total interchange according to Ministry of Finance).
3. For Petroleum Products, administrative records of General Petroleum Corporation covers the major part of data related to imports, the other part is covered by value added tax invoices from in Ministry of Finance.
4. For electricity data, administrative records of Palestinian Energy Authority were used to provide data on electricity imports in Gaza Strip. In West Bank, data were compiled from the electricity value added tax invoices for the local communities from Ministry of Finance.

5.1.2 Economic Surveys:

Though dealing with data from economic surveys, the following notes should be taken into consideration:

1. The response rate with data for this survey is relatively high if it is compared with the response in other countries.

2. All data depends on the establishment records, and if these records were not available, the respondent was asked to give approximate estimates.
3. There were many difficulties during data collection in Jerusalem because of the special political situation of the city.

5.1.3 Palestinian Expenditure and Consumption Survey (PECS) 1997

The PECS is a household survey and have two types of errors that might have been occurred:

1. Statistical Errors:

These types of errors evolved as a result of studying a part of the society and not all of it.

2. Non Statistical Errors:

These errors are due to the none response cases as well as the implementation of surveys. In this survey, these error emerged because of the special situation of the questionnaire itself.

5.2 Special Technical Notes:

- 1) Imports and re-exports tables cover electricity, basic petroleum products and coal for the Palestinian Territory (Does not include those parts of Jerusalem which were annexed by Israel in 1967).
- 2) Reports tables cover data related to the main types of energy (electricity, petroleum products and biomass). It is important to note that there are other types of energy (coke, other petroleum products, animal and vegetal residues) that are not included due to the lack of data.
- 3) There are no data available on solar energy utilization in domestic sector.
- 4) All energy loss quantities represent the quantities lost inside the establishment and excluding transfer and distribution losses. Also, there are no data available on electricity losses.
- 5) In all data related to transport sector, the transport informal sector is not included according to the definition.
- 6) In all calculations related to Gasoline, we delt with the average of all available types of Gasoline. Also, a common price and conversion factor was used.
- 7) In all calculations related to oils and lubricates, we delt with the average of all available types of oils and lubricates. Also, a common price and conversion factor was used.
- 8) In all calculations related to wood and coal, we delt with the average of both wood and coal. Also, a common price and conversion factor was used.
- 9) We can observe from the main finding that the quantity of energy used in economic activities is greater than the quantity of energy purchased for the same year 1997.
- 10) The quantity of electrical energy purchased is greater than the quantity of electrical energy used in production.