

ANEXO 3
CUADROS SOPORTE Y DETALLE DE CALCULO

PLAN DE EXPANSIÓN 2010-2024

PROYECCIONES DE DEMANDA

ANEXO 3

CUADROS SOPORTE Y DETALLE DE CÁLCULOS

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|-----|--|
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- 25 DEMANDA MAXIMA DE GENERACION , POR PARTICIPANTE CONSUMIDOR Y POR
BARRA. 2010-2024 (MW)

CUADRO No. 1**INCREMENTO DE POBLACIÓN ASOCIADO A LOS TRABAJOS DE AMPLIACION DEL CANAL**

| CASO: ESCENARIO MODERADO | | | | | 2 Familiares y 1 de otra actividad conexas |
|---|--------------|-------------------|--------------------|-------------------|--|
| SUPUESTO: 3 INMIGRANTE INDIRECTO POR EMPLEADO EXTRANJERO | | | | | |
| EMPLEADOS ADICIONALES X AMPLIACION | | | | | |
| | TOTAL | NACIONALES | EXTRANJEROS | INDIRECTOS | INMIGRANTES |
| | | | | 3.00 | TOTALES |
| 2007 | 746 | 746 | | | |
| 2008 | 2,237 | 2,115 | 122 | 366 | 488 |
| 2009 | 4,405 | 4,257 | 148 | 444 | 592 |
| 2010 | 5,630 | 5,338 | 292 | 876 | 1,168 |
| 2011 | 2,929 | 2,674 | 255 | 765 | 1,020 |
| 2012 | 1,559 | 1,371 | 188 | 564 | 752 |
| 2013 | 1,324 | 1,116 | 208 | 624 | 832 |
| 2014 | 667 | 429 | 238 | 714 | 952 |
| 2008 - 2009 | 3,321 | 3,186 | 135 | 405 | 540 |
| 2010 - 2014 | 2,422 | 2,186 | 236 | 709 | 945 |

| CASO ESCENARIO OPTIMISTA | | | | | 2 Familiares y 3 de otra actividad conexas |
|---|--------------|-------------------|--------------------|-------------------|--|
| SUPUESTO: 5 INMIGRANTES INDIRECTOS POR EMPLEADO EXTRANJERO | | | | | |
| EMPLEADOS ADICIONALES X AMPLIACION | | | | | |
| | TOTAL | NACIONALES | EXTRANJEROS | INDIRECTOS | INMIGRANTES |
| | | | | 5.00 | TOTALES |
| 2007 | 746 | 746 | | | |
| 2008 | 2,237 | 2,115 | 122 | 610 | 732 |
| 2009 | 4,405 | 4,257 | 148 | 740 | 888 |
| 2010 | 5,630 | 5,338 | 292 | 1,460 | 1,752 |
| 2011 | 2,929 | 2,674 | 255 | 1,275 | 1,530 |
| 2012 | 1,559 | 1,371 | 188 | 940 | 1,128 |
| 2013 | 1,324 | 1,116 | 208 | 1,040 | 1,248 |
| 2014 | 667 | 429 | 238 | 1,190 | 1,428 |
| 2008 - 2009 | 3,321 | 3,186 | 135 | 675 | 810 |
| 2010 - 2014 | 2,422 | 2,186 | 236 | 1,181 | 1,417 |

CUADRO No. 2
INCREMENTO DE POBLACIÓN ASOCIADO AL TURISMO RESIDENCIAL

| CASO DE IMPACTO MODERADO | | | | | |
|---|----------------|------------------|--------------|---------------------|--------------------|
| SUPUESTO: OCUPACIÓN DE EDIFICIOS POR EXTRANJEROS AUMENTADO | | | | | 10.00% |
| | TOTAL | Ocupación | Dueño | Acompañantes | INMIGRANTES |
| | | | | 1.00 | TOTALES |
| 2007 | - | | | | |
| 2008 | - | | | | |
| 2009 | 23,947 | 20% | 7,982 | 7,982 | 15,965 |
| 2010 | 35,921 | 30% | 11,974 | 11,974 | 23,947 |
| 2011 | 47,895 | 40% | 15,965 | 15,965 | 31,930 |
| 2012 | 59,869 | 50% | 19,956 | 19,956 | 39,912 |
| 2013 | 71,842 | 60% | 23,947 | 23,947 | 47,895 |
| 2014 | 83,816 | 70% | 27,939 | 27,939 | 55,877 |
| 2015 | 95,790 | 80% | 31,930 | 31,930 | 63,860 |
| 2016 | 107,764 | 90% | 35,921 | 35,921 | 71,842 |
| 2017 | 119,737 | 100% | 39,912 | 39,912 | 79,825 |
| 2018 | 119,737 | 100% | 39,912 | 39,912 | 79,825 |
| 2019 | 119,737 | 100% | 39,912 | 39,912 | 79,825 |
| 2020 | 119,737 | 100% | 39,912 | 39,912 | 79,825 |
| 2021 | 119,737 | 100% | 39,912 | 39,912 | 79,825 |

| CASO DE IMPACTO OPTIMISTA | | | | | |
|---|----------------|------------------|--------------|---------------------|--------------------|
| SUPUESTO: OCUPACIÓN DE EDIFICIOS POR EXTRANJEROS AUMENTADO | | | | | 25.00% |
| | TOTAL | Ocupación | Dueño | Acompañantes | INMIGRANTES |
| | | | | 3.00 | TOTALES |
| 2007 | - | | | | |
| 2008 | - | | | | |
| 2009 | 55,877 | 20% | 7,982 | 23,947 | 31,930 |
| 2010 | 125,724 | 45% | 17,961 | 53,882 | 71,842 |
| 2011 | 195,571 | 70% | 27,939 | 83,816 | 111,755 |
| 2012 | 265,418 | 95% | 37,917 | 113,751 | 151,667 |
| 2013 | 279,387 | 100% | 39,912 | 119,737 | 159,650 |
| 2014 | 279,387 | 100% | 39,912 | 119,737 | 159,650 |
| 2015 | 279,387 | 100% | 39,912 | 119,737 | 159,650 |
| 2016 | 279,387 | 100% | 39,912 | 119,737 | 159,650 |
| 2017 | 279,387 | 100% | 39,912 | 119,737 | 159,650 |
| 2018 | 279,387 | 100% | 39,912 | 119,737 | 159,650 |
| 2019 | 279,387 | 100% | 39,912 | 119,737 | 159,650 |
| 2020 | 279,387 | 100% | 39,912 | 119,737 | 159,650 |
| 2021 | 279,387 | 100% | 39,912 | 119,737 | 159,650 |

CUADRO No. 3
EDIFICIOS EN CONSTRUCCIÓN

| | GRUPO | | EDIFICIO | # PISOS | # APARTAMENTOS RESIDENCIALES | Apartamentos por Piso |
|----------------------------|---|--|--|-------------|------------------------------|-----------------------|
| 1 | Olloqui de España | | El Palacio de la Bahía- | 97 | 333 | 3.43 |
| 2 | The Trump Organization, y el Grupo K de Panamá | | Trump Ocean Club International Hotel And Tower | 65 | 223 | |
| 3 | | | Ice Tower | 104 | | |
| 4 | Grupo Mall | | Los Faros de Panamá1 | 84 | 1,716 | 7.66 |
| 5 | | | Los Faros de Panamá2 | 70 | | 5.55 |
| 6 | | | Los Faros de Panamá3 | 70 | | |
| 7 - 10 | 4 | | más según Informe del MEF | 82 | 1,819 | |
| 11 - 25 | 15 | | edificios en preventa a dic/2006 | 50 | 4,160 | |
| 26 -176 | 150 | | edificios de menor envergadura | 30 | 24,961 | |
| Chiriquí | Sin información cuantitativa, estimado asumiendo | | | | 5,000 | |
| 1 | Boquete | | 1000 | residencias | | |
| 2 | Potrerillos | | | por lugar | | |
| 3 | Las Lajas | | | | | |
| 4 | Volcán | | | | | |
| 5 | Cerro Punta | | | | | |
| Coclé | | | 1000 | | 1,000 | |
| Bocas del Toro | A febrero/2006 se conoce de 500 a 700 casas en construcción | | | | 700 | |
| RESIDENCIAS TOTALES | | | | | 39,912 | |

metros altura

Altura media 290
 Más alto 346

CUADRO No. 4
ESCENARIO OPTIMISTA: IMPACTO POBLACIONAL POR AMPLIACION DEL CANAL + TURISMO RESIDENCIAL

| | POBRUR | POBRUX | POBRUY | POBTOT | POBURB | POBURX | POBURY |
|----------------|---|---------------------------|---------------------|---------------------|---|----------------------|---------------------|
| | Población rural | Población rural masculina | | Población total | Población urbana | Población urbana mas | |
| | Miles de habitantes | Miles de habitantes | Miles de habitantes | Miles de habitantes | Miles de habitantes | Miles de habitantes | Miles de habitantes |
| Fórmula | CELADE 1950-1959 & C CELADE 1950-1959 & C GR 2000 | | Fórmula | Fórmula | CELADE 1950-1959 & CELADE 1950-1959 & C GR 2000 | | |
| 1970 | 780.5 | 419.5 | 369.7 | 1590.3 | 740.5 | 349.1 | 367.7 |
| 1971 | 807.6 | 429.5 | 378.1 | 1547.3 | 730.7 | 350.0 | 379.6 |
| 1972 | 830.2 | 439.4 | 386.8 | 1589.5 | 763.3 | 371.3 | 391.9 |
| 1973 | 846.2 | 449.6 | 395.6 | 1632.8 | 787.6 | 383.0 | 404.6 |
| 1974 | 864.7 | 460.0 | 404.7 | 1677.4 | 812.7 | 395.0 | 417.7 |
| 1975 | 884.0 | 470.0 | 414.0 | 1723.2 | 838.0 | 407.4 | 431.2 |
| 1976 | 902.9 | 480.3 | 422.8 | 1766.2 | 863.3 | 419.2 | 444.2 |
| 1977 | 921.5 | 490.3 | 431.2 | 1810.3 | 888.5 | 431.3 | 457.5 |
| 1978 | 940.0 | 500.5 | 440.1 | 1855.6 | 915.0 | 443.8 | 471.2 |
| 1979 | 958.4 | 510.8 | 449.2 | 1902.0 | 942.0 | 456.7 | 485.3 |
| 1980 | 979.9 | 521.4 | 458.5 | 1949.7 | 969.5 | 469.9 | 499.9 |
| 1981 | 992.8 | 528.2 | 464.6 | 1991.1 | 998.4 | 483.9 | 514.5 |
| 1982 | 1005.8 | 535.0 | 470.8 | 2033.6 | 1027.8 | 498.3 | 529.5 |
| 1983 | 1019.0 | 541.9 | 477.1 | 2077.1 | 1058.4 | 513.1 | 545.0 |
| 1984 | 1032.4 | 548.9 | 483.5 | 2121.7 | 1089.3 | 528.4 | 560.9 |
| 1985 | 1046.0 | 556.0 | 490.0 | 2167.4 | 1121.4 | 544.1 | 577.3 |
| 1986 | 1059.3 | 562.4 | 495.9 | 2214.3 | 1153.0 | 559.5 | 593.5 |
| 1987 | 1073.7 | 568.9 | 501.8 | 2262.2 | 1185.5 | 575.4 | 610.2 |
| 1988 | 1088.3 | 575.4 | 507.8 | 2312.2 | 1219.0 | 591.7 | 627.3 |
| 1989 | 1099.0 | 582.1 | 513.9 | 2364.3 | 1253.3 | 608.5 | 644.9 |
| 1990 | 1109.9 | 588.5 | 520.1 | 2397.5 | 1288.7 | 625.7 | 663.0 |
| 1991 | 1119.9 | 594.5 | 525.4 | 2442.2 | 1322.3 | 642.2 | 680.1 |
| 1992 | 1131.1 | 600.3 | 530.8 | 2487.9 | 1359.5 | 659.0 | 697.8 |
| 1993 | 1142.4 | 606.1 | 536.3 | 2534.5 | 1392.2 | 676.3 | 715.9 |
| 1994 | 1153.8 | 611.9 | 541.8 | 2582.2 | 1428.5 | 694.1 | 734.4 |
| 1995 | 1165.3 | 617.9 | 547.4 | 2631.0 | 1465.5 | 712.3 | 753.5 |
| 1996 | 1169.8 | 611.7 | 543.1 | 2687.5 | 1503.0 | 740.5 | 780.4 |
| 1997 | 1144.4 | 605.6 | 538.7 | 2747.7 | 1603.3 | 782.4 | 820.9 |
| 1998 | 1134.1 | 599.6 | 534.5 | 2810.9 | 1678.5 | 820.1 | 856.8 |
| 1999 | 1123.9 | 593.7 | 530.2 | 2877.7 | 1753.8 | 858.5 | 894.3 |
| 2000 | 1113.8 | 587.5 | 526.0 | 2948.0 | 1834.2 | 900.5 | 933.4 |
| 2001 | 1120.4 | 593.6 | 532.8 | 3004.0 | 1877.0 | 923.0 | 954.0 |
| 2002 | 1130.2 | 599.0 | 539.0 | 3068.1 | 1929.9 | 945.1 | 975.5 |
| 2003 | 1142.0 | 605.5 | 546.5 | 3110.3 | 1994.2 | 967.3 | 990.9 |
| 2004 | 1154.5 | 611.4 | 553.4 | 3172.4 | 2067.6 | 989.5 | 1018.1 |
| 2005 | 1177.2 | 617.0 | 560.2 | 3228.2 | 2091.0 | 1011.7 | 1039.3 |
| 2006 | 1199.5 | 622.7 | 567.1 | 3281.5 | 2091.7 | 1032.4 | 1059.3 |
| R ² | 0.921 | 0.907 | 0.934 | 0.994 | 0.994 | 0.993 | 0.995 |

Próximo de Población Rural y Urbana, con base en la correlación de dichas poblaciones, respecto a la evolución de población total

| | RURAL | NACIONALES | AMPLIACION | TURIS.RESID | TOTAL | URBANO | Nacionales | AMPLIACION | TURIS.RESID |
|------------------------|-------|--------------|------------|-------------|---------|--------------|------------|------------|-------------|
| | F: | CELADE&Contr | 0 | 20% | F: | CELADE&Contr | 100% | 80% | |
| | | aloría | | | | aloría | Remanente | 20% | |
| 2007 | 1,249 | 1,249 | | | 3,336 | 2,087 | 2,087 | | |
| 2008 | 1,260 | 1,260 | | | 3,392 | 2,131 | 2,131 | 0.73 | |
| 2009 | 1,278 | 1,272 | 0 | 6.4 | 3,480 | 2,201 | 2,175 | 0.89 | 25.5 |
| 2010 | 1,297 | 1,282 | 0 | 14.4 | 3,572 | 2,275 | 2,216 | 1.75 | 57.5 |
| 2011 | 1,316 | 1,293 | 0 | 22.4 | 3,664 | 2,348 | 2,257 | 1.53 | 89.4 |
| 2012 | 1,335 | 1,304 | 0 | 30.3 | 3,757 | 2,422 | 2,300 | 1.13 | 121.3 |
| 2013 | 1,347 | 1,315 | 0 | 31.9 | 3,819 | 2,471 | 2,342 | 1.25 | 127.7 |
| 2014 | 1,359 | 1,327 | 0 | 31.9 | 3,874 | 2,515 | 2,386 | 1.43 | 127.7 |
| 2015 | 1,369 | 1,337 | 0 | 31.9 | 3,922 | 2,553 | 2,425 | 0.29 | 127.7 |
| 2016 | 1,379 | 1,347 | 0 | 31.9 | 3,973 | 2,593 | 2,465 | 0.29 | 127.7 |
| 2017 | 1,390 | 1,358 | 0 | 31.9 | 4,024 | 2,634 | 2,506 | 0.29 | 127.7 |
| 2018 | 1,401 | 1,369 | 0 | 31.9 | 4,075 | 2,675 | 2,547 | 0.29 | 127.7 |
| 2019 | 1,411 | 1,380 | 0 | 31.9 | 4,128 | 2,716 | 2,588 | 0.29 | 127.7 |
| 2020 | 1,421 | 1,389 | 0 | 31.9 | 4,175 | 2,754 | 2,626 | 0.29 | 127.7 |
| 2021 | 1,431 | 1,399 | 0 | 31.9 | 4,222.3 | 2,791 | 2,663 | 0.29 | 127.7 |
| | 31.93 | | | | 159.94 | 128.01 | | | |
| | 34% | | | | | 66% | | | |
| Tasa anual acumulativa | | | | | | | | | |
| 2007-2010 | 1.27% | 0.89% | | | 2.31% | 2.92% | 2.02% | | |
| 2011-2015 | 1.00% | 0.83% | | | 1.72% | 2.11% | 1.81% | | |
| 2016-2021 | 0.74% | 0.75% | | | 1.23% | 1.48% | 1.56% | | |
| 2007-2021 | 0.98% | 0.81% | | | 1.70% | 2.10% | 1.76% | | |

CUADRO No. 5
INFLACIÓN, 1970-2006

| AÑOS | IPCPAN | INFPAN |
|------|---|--|
| | IPC anual de Panamá (1987 = 100) 1987 = 100 Fórmula | Inflación de Panamá % COPE 1971-2002 |
| 1970 | 42.2 | |
| 1971 | 43.0 | 2.0 |
| 1972 | 45.4 | 5.6 |
| 1973 | 48.5 | 6.9 |
| 1974 | 56.9 | 17.3 |
| 1975 | 60.0 | 5.5 |
| 1976 | 62.4 | 4.0 |
| 1977 | 65.4 | 4.8 |
| 1978 | 68.3 | 4.4 |
| 1979 | 73.8 | 8.0 |
| 1980 | 84.3 | 14.2 |
| 1981 | 90.6 | 7.5 |
| 1982 | 94.5 | 4.3 |
| 1983 | 96.6 | 2.2 |
| 1984 | 98.2 | 1.7 |
| 1985 | 99.1 | 0.9 |
| 1986 | 99.1 | 0.0 |
| 1987 | 100.0 | 0.9 |
| 1988 | 100.5 | 0.5 |
| 1989 | 100.6 | 0.1 |
| 1990 | 101.4 | 0.8 |
| 1991 | 102.7 | 1.3 |
| 1992 | 104.5 | 1.8 |
| 1993 | 105.0 | 0.5 |
| 1994 | 106.4 | 1.3 |
| 1995 | 107.4 | 0.9 |
| 1996 | 108.8 | 1.3 |
| 1997 | 110.1 | 1.2 |
| 1998 | 110.8 | 0.6 |
| 1999 | 112.4 | 1.4 |
| 2000 | 114.1 | 1.5 |
| 2001 | 114.4 | 0.3 |
| 2002 | 115.8 | 1.2 |
| 2003 | 117.7 | 1.6 |
| 2004 | 119.4 | 1.4 |
| 2005 | 122.8 | 2.9 |
| 2006 | 125.8 | 2.5 |
| 2007 | 134.0 | 6.5 |
| 2008 | 145.7 | 8.7 |
| 2009 | 149.3 | 2.5 |

| | |
|-----------|------|
| 1990-2007 | 2.1% |
| 1990-2000 | 1.2% |
| 1997-2009 | 2.6% |
| 2002-2009 | 3.7% |
| 2005-2009 | 5.0% |

CUADRO No.6
PRONÓSTICO DEL PIB 2009, TENDENCIAL HISTÓRICO- (Millones de B/. 1996)

| GRAN DIVISIÓN ECONÓMICA | BASE HISTÓRICA | | | | | | | | ESTIMACIONES 2006 | | | | |
|---|---------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|---------------------------------|---------------------------------|------------------------------|------------------------------|
| | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | E1 | E2 | E3 | E4 | E5 |
| | Revisión Preliminar | | | | | | | | TENDENCIAL | PROMEDIO últimos 3 años 2006-08 | PROMEDIO últimos 2 años 2007-08 | AJUSTADO estructuras base E2 | AJUSTADO estructuras base E2 |
| 1. Agricultura, silvicultura y caza | 588.3 | 565.2 | 581.1 | 592.9 | 621.6 | 670.6 | 688.8 | 714.9 | 724.4 | 714.9 | 714.9 | 714.9 | 733.3 |
| 2. Pesca | 261.0 | 312.3 | 377.8 | 379.0 | 375.4 | 368.5 | 356.2 | 413.1 | 422.5 | 413.1 | 413.1 | 423.7 | |
| 3. Explotación de canteras | 75.6 | 89.3 | 120.9 | 136.0 | 136.1 | 159.5 | 197.8 | 259.0 | 250.8 | 259.0 | 259.0 | 265.7 | |
| Subtotal Sector Primario | 924.9 | 966.8 | 1079.8 | 1107.9 | 1133.1 | 1198.6 | 1242.8 | 1387.0 | 1387.0 | 1387.0 | 1387.0 | 1423.0 | |
| 4. Industria Manufacturera | 1,026.3 | 999.4 | 965.4 | 985.5 | 1,026.9 | 1,066.7 | 1,126.7 | 1,171.9 | 1,153.3 | 1,171.9 | 1,171.9 | 1,207.5 | |
| 5. Electricidad, gas y agua | 357.0 | 381.5 | 387.0 | 410.6 | 433.4 | 447.6 | 484.3 | 501.2 | 517.9 | 501.2 | 501.2 | 514.1 | |
| 6. Construcción | 394.1 | 365.4 | 491.0 | 561.6 | 566.8 | 671.2 | 819.3 | 1,075.0 | 1,024.2 | 1,075.0 | 1,075.0 | 1,102.6 | |
| 7. Transporte, almacenamiento y comunicac | 1,767.5 | 1,803.2 | 1,999.0 | 2,296.3 | 2,567.9 | 2,920.9 | 3,417.5 | 4,050.6 | 4,054.1 | 4,050.6 | 3,891.4 | 3,991.4 | |
| Subtotal Sector Secundario y de infra | 3544.9 | 3549.5 | 3,842.4 | 4254.0 | 4595.0 | 5106.4 | 5847.8 | 6798.7 | 6,749.5 | 6,799.0 | 6,645.0 | 6,816.0 | |
| 8. Comercio al por mayor y al por menor | 1,703.5 | 1,668.1 | 1,686.8 | 1,881.9 | 2,047.4 | 2,274.0 | 2,517.7 | 2,704.6 | 2,766.7 | 2,704.6 | 2,704.6 | 2,774.1 | |
| 9. Hoteles y Restaurantes | 259.2 | 277.4 | 306.2 | 347.6 | 366.1 | 433.2 | 494.9 | 531.9 | 562.6 | 531.9 | 531.9 | 545.6 | |
| 10. Intermediación Financiera | 1,090.4 | 1,011.9 | 939.4 | 887.0 | 1,032.4 | 1,187.1 | 1,414.7 | 1,636.7 | 1,510.3 | 1,636.7 | 1,676.6 | 1,813.0 | |
| 11. Actividades Inmobiliarias, empresaria | 690.5 | 717.5 | 753.9 | 834.9 | 899.0 | 947.4 | 1,039.8 | 1,052.5 | 1,123.5 | 1,052.5 | 1,052.5 | 1,079.5 | |
| 12. Enseñanza Privada | 82.4 | 84.8 | 88.7 | 92.8 | 96.9 | 105.9 | 113.4 | 117.8 | 121.8 | 117.8 | 117.8 | 120.8 | |
| Menos: Servicio de intermediación financie | -369.0 | -288.2 | -300.2 | -262.5 | -289.0 | -374.3 | -379.8 | -403.9 | -384.3 | -403.9 | -403.9 | -414.3 | |
| Subtotal Sector Terciario (comercial) | 3457.0 | 3471.5 | 3474.8 | 3781.7 | 4172.8 | 4573.3 | 5200.7 | 5639.6 | 5,700.6 | 5,640.0 | 5,771.0 | 5,919.0 | |
| 13. Actividades de servicio sociales y de si | 111.9 | 118.7 | 122.9 | 129.5 | 134.3 | 137.8 | 155.6 | 161.7 | 165.3 | 161.7 | 161.7 | 165.9 | |
| 14. Otras actividades comunitarias, social | 368.9 | 388.4 | 394.8 | 410.3 | 426.8 | 448.4 | 513.1 | 555.5 | 551.2 | 555.5 | 549.9 | 564.1 | |
| 15. Productores de servicios gubernament | 1,128.9 | 1,171.3 | 1,188.0 | 1,217.0 | 1,208.3 | 1,231.8 | 1,272.7 | 1,321.0 | 1,323.1 | 1,321.0 | 1,387.1 | 1,422.7 | |
| Construcción | 25.8 | 24.6 | 25.7 | 27.0 | 27.8 | 32.8 | 37.9 | 45.3 | 42.9 | 45.3 | 45.3 | 46.5 | |
| Actividades Inmobiliarias, empresariales | 1,103.9 | 1,150.0 | 1,201.7 | 1,268.2 | 1,358.4 | 1,453.9 | 1,568.0 | 1,718.9 | 1,740.8 | 1,718.9 | 1,718.9 | 1,763.1 | |
| Hogares privados con servicio doméstico | 84.3 | 93.1 | 95.1 | 102.7 | 104.5 | 111.3 | 112.6 | 114.7 | 121.6 | 114.7 | 114.7 | 117.6 | |
| 16. Productores de servicios domésticos | 1,214.0 | 1,267.7 | 1,322.5 | 1,397.9 | 1,490.7 | 1,598.0 | 1,718.5 | 1,878.9 | 1,905.4 | 1,878.9 | 1,878.9 | 1,927.2 | |
| Subtotal Sector Terciario (oficial y p | 2823.7 | 2946.1 | 3028.2 | 3154.7 | 3260.1 | 3416.0 | 3659.8 | 3917.1 | 3,944.9 | 3,917.0 | 3,978.0 | 4,080.0 | |
| Más: Derechos de importancia e ITBM | 208.9 | 211.5 | 198.2 | 207.9 | 228.7 | 285.3 | 349.4 | 365.0 | 367.4 | 365.0 | 365.0 | 374.4 | |
| Más: ITBM que graba las compras de los | 139.7 | 136.7 | 139.2 | 170.7 | 191.8 | 254.5 | 302.4 | 330.3 | 343.7 | 330.3 | 330.3 | 338.8 | |
| Más: Otros impuestos a los productores | 397.1 | 460.8 | 465.6 | 500.0 | 539.5 | 562.0 | 639.5 | 650.0 | 687.1 | 650.0 | 650.0 | 666.7 | |
| Menos: Subvenciones a los productos | -60.0 | -51.8 | -45.4 | -77.7 | -79.8 | -157.5 | -158.1 | -170.0 | -187.9 | -170.0 | -170.0 | -174.4 | |
| Subtotal Impuestos y transferencias | 685.7 | 757.2 | 757.6 | 800.9 | 880.2 | 944.3 | 1,133.2 | 1,175.3 | 1,210.4 | 1,175.3 | 1,175.3 | 1,205.5 | |
| Producto Interno Bruto Real | 11,436.2 | 11,691.1 | 12,182.8 | 13,099.2 | 14,041.2 | 15,238.6 | 17,084.4 | 18,917.6 | 19,003.2 | 18,918.0 | 18,953.3 | 19,442.2 | |
| TASA DE CRECIMIENTO ANUAL | | 2.23% | 4.21% | 7.52% | 7.19% | 8.53% | 12.11% | 10.73% | 0.49% | 0.00% | 0.00% | 0.20% | 2.77% |
| | | | | | | | | | | | | | -2.57% |

FUENTE: Dirección de Estadísticas y Censo, Panamá en Cifras 2002-06

2.77% <--- Tasa promedio de consulta
-2.57% <--- Diferencia

7.45%

Nuevos Estimados de Expertos publicados: LA PRENSA y Capital Financiero

| | Desde | Hasta | Promedio |
|--|-------|-------|----------|
| MEF- Gobierno | | 3.0 | 3.00 |
| FMI | | 1.8 | 1.80 |
| World Bank (Banco Mundial) | | 3.5 | 3.50 |
| Banco Interamericano de Desarrollo (BID) | | | |
| CEPAL | | 2.5 | 2.50 |
| INDESA(Marcos Fernadez G. Chapman) | | 2.8 | 2.80 |
| Panama Economic Insight | | 0.2 | 0.20 |
| Deloitte | | 3.5 | 3.50 |
| Moody's | | 4.0 | 4.00 |
| Fitch Ratings | | 3.0 | 3.00 |
| JP Morgan's | | 1.5 | 1.50 |
| Standart & Poor's | | 2.5 | 2.50 |
| CAMARA DE COMERCIO DE PANAMA | | 3.0 | 3.00 |
| APEDE | | | |
| Sindicato de Industriales de Panamá (SIP) | 5.0 | 6.0 | 5.50 |
| Colegio de Economistas | | | |
| Otros Expeertos (N. Ardito barletta) | 3.5 | 4.0 | 3.75 |
| The Economist Magazine | | 1.2 | 1.20 |
| IMAE (Dato original CGR) | | | |
| IMAE (Ajuste desfase histórico 3 últimos años) | | | |
| PIB IMAE (Ajuste desfase histórico 6 últimos años) | | | |
| Promedio simple | | | |
| Extremos | 4.25 | 2.81 | 3.53 |
| Promedio AJUSTADO (Sin Extremos) | | 2.79 | 2.77 |

CUADRO No.6
PRONÓSTICO DEL PIB 2009, TENDENCIAL HISTÓRICO- (Millones de B/. 1996)

| GRAN DIVISIÓN ECONÓMICA | BASE HISTÓRICA | | | | | | | | ESTIMACIONES 2009 | | PROMEDIO últimos años 2006-08 |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|---------------|-------------------------------|
| | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | Revisión 2007 | Preliminar 2008 | E1 | E2 | |
| | | | | | | | | | TENDENCIAL | | |
| 1. Agricultura, silvicultura y caza | 588.3 | 565.2 | 581.1 | 592.9 | 621.6 | 670.6 | 688.8 | 714.9 | 724.4 | 714.9 | |
| 2. Pesca | 261.0 | 312.3 | 377.8 | 379.0 | 375.4 | 368.5 | 356.2 | 413.1 | 422.5 | 413.1 | |
| 3. Explotación de canteras | 75.6 | 89.3 | 120.9 | 136.0 | 136.1 | 159.5 | 197.8 | 259.0 | 250.8 | 259.0 | |
| Subtotal Sector Primario | 924.9 | 966.8 | 1079.8 | 1107.9 | 1133.1 | 1198.6 | 1242.8 | 1387.0 | 1,397.8 | 0.8% | |
| 4. Industria Manufacturera | 1,026.3 | 999.4 | 965.4 | 985.5 | 1,026.9 | 1,096.7 | 1,126.7 | 1,171.9 | 1,153.3 | 1,171.9 | |
| 5. Electricidad, gas y agua | 357.0 | 381.5 | 387.0 | 410.6 | 433.4 | 447.6 | 484.3 | 501.2 | 517.9 | 501.2 | |
| 6. Construcción | 394.1 | 365.4 | 491.0 | 561.6 | 566.8 | 671.2 | 819.3 | 1,075.0 | 1,024.2 | 1,075.0 | |
| 7. Transporte, almacenamiento y comunicaciones | 1,767.5 | 1,803.2 | 1,999.0 | 2,296.3 | 2,567.9 | 2,920.9 | 3,417.5 | 4,060.6 | 4,054.1 | 4,050.6 | |
| Subtotal Sector Secundario y de Infr | 3544.9 | 3549.5 | 3,842.4 | 4,254.0 | 4,595.0 | 5,106.4 | 5,847.8 | 6,798.7 | 6,749.5 | -0.7% | |
| 8. Comercio al por mayor y al por menor | 1,703.5 | 1,668.1 | 1,686.8 | 1,881.9 | 2,047.4 | 2,274.0 | 2,517.7 | 2,704.6 | 2,766.7 | 2,704.6 | |
| 9. Hoteles y Restaurantes | 259.2 | 277.4 | 306.2 | 347.6 | 386.1 | 433.2 | 494.9 | 531.9 | 562.6 | 531.9 | |
| 10. Intermediación Financiera | 1,080.4 | 1,011.9 | 939.4 | 867.0 | 1,032.4 | 1,167.1 | 1,414.7 | 1,636.7 | 1,510.3 | 1,636.7 | |
| 11. Actividades inmobiliarias, empresariales y de alquiler | 690.5 | 717.5 | 753.9 | 834.9 | 899.0 | 947.4 | 1,039.8 | 1,062.5 | 1,123.5 | 1,052.5 | |
| 12. Enseñanza Privada | 82.4 | 84.8 | 88.7 | 92.8 | 96.9 | 105.9 | 113.4 | 117.8 | 121.8 | 117.8 | |
| Menos: Servicio de intermediación financiera | -369.0 | -288.2 | -300.2 | -282.5 | -289.0 | -374.3 | -379.8 | -403.9 | -384.3 | -403.9 | |
| Subtotal Sector Terciario (comercial) | 3457 | 3471.5 | 3474.8 | 3781.7 | 4172.8 | 4573.3 | 5200.7 | 5839.6 | 5,700.6 | 1.1% | |
| 13. Actividades de servicio sociales y de salud | 111.9 | 118.7 | 122.9 | 129.5 | 134.3 | 137.8 | 155.6 | 161.7 | 165.3 | 2.2% | |
| 14. Otras actividades comunitarias, sociales y culturales | 368.9 | 388.4 | 394.8 | 410.3 | 426.8 | 448.4 | 513.1 | 555.5 | 551.2 | -0.8% | |
| 15. Productores de servicios gubernamentales | 1,128.9 | 1,171.3 | 1,188.0 | 1,217.0 | 1,208.3 | 1,231.8 | 1,272.7 | 1,321.0 | 1,323.1 | 0.2% | |
| Construcción | 25.8 | 24.6 | 25.7 | 27.0 | 27.8 | 32.8 | 37.9 | 45.3 | 42.9 | -5.3% | |
| Actividades Inmobiliarias, empresariales y de alquiler | 1,103.9 | 1,150.0 | 1,201.7 | 1,268.2 | 1,358.4 | 1,453.9 | 1,568.0 | 1,718.9 | 1,740.8 | 1.3% | |
| Hogares privados con servicio doméstico | 84.3 | 93.1 | 95.1 | 102.7 | 104.5 | 111.3 | 112.6 | 114.7 | 121.6 | 6.0% | |
| 16. Productores de servicios domésticos | 1,214.0 | 1,267.7 | 1,322.5 | 1,397.9 | 1,490.7 | 1,598.0 | 1,718.5 | 1,878.9 | 1,905.4 | 1.4% | |
| Subtotal Sector Terciario (oficial y privado) | 2823.7 | 2946.1 | 3028.2 | 3154.7 | 3260.1 | 3416 | 3659.9 | 3917.1 | 3,944.9 | 0.7% | |
| Más: Derechos de importancia e ITBM | 208.9 | 211.5 | 198.2 | 207.9 | 228.7 | 285.3 | 349.4 | 365.0 | 367.4 | 365.0 | |
| Más: ITBM que graba las compras de los consumidores | 139.7 | 136.7 | 139.2 | 170.7 | 191.8 | 254.5 | 302.4 | 330.3 | 343.7 | 330.3 | |
| Más: Otros impuestos a los productores | 397.1 | 460.8 | 465.6 | 500.0 | 539.5 | 562.0 | 639.5 | 650.0 | 687.1 | 650.0 | |
| Menos: Subvenciones a los productores | -60.0 | -51.8 | -45.4 | -77.7 | -79.8 | -157.5 | -158.1 | -170.0 | -187.9 | -170.0 | |
| Subtotal Impuestos y transferencias | 685.7 | 757.2 | 757.6 | 800.9 | 880.2 | 944.3 | 1,133.2 | 1,175.3 | 1,210.4 | 3.0% | |
| Producto Interno Bruto Real | 11,436.2 | 11,691.1 | 12,182.8 | 13,099.2 | 14,041.2 | 15,238.6 | 17,084.4 | 18,917.6 | 19,003.2 | 18,918 | |
| TASA DE CRECIMIENTO ANUAL | | 2.23% | 4.21% | 7.52% | 7.19% | 8.53% | 12.11% | 10.73% | 0.45% | 0.00% | |

FUENTE: Dirección de Estadísticas y Censo, Panamá en Cifras 2002-06

Nuevos Estimados de Expertos publicados: LA PRENSA y Capital Financiero

| | Desde | Hasta | Promedio |
|--|-------|-------|----------|
| MEF- Gobierno | | 3.0 | 3.00 |
| FMI | | 1.8 | 1.80 |
| World Bank (Banco Mundial) | | 3.5 | 3.50 |
| Banco Interamericano de Desarrollo (BID) | | | |
| CEPAL | | 2.5 | 2.50 |
| INDESA (Marcos Fernandez G. Chapman) | | 2.8 | 2.80 |
| Panama Economic Insight | - | 0.2 | 0.20 |
| Deloitte | | 3.5 | 3.50 |
| Moody's | | 4.0 | 4.00 |
| Fitch Ratings | | 3.0 | 3.00 |
| JP Morgan's | | 1.5 | 1.50 |
| Standard & Poor's | | 2.5 | 2.50 |
| CAMARA DE COMERCIO DE PANAMA | | 3.0 | 3.00 |
| APEDE | | | |
| Sindicato de Industriales de Panamá (SIP) | 5.0 | 6.0 | 5.50 |
| Colegio de Economistas | | | |
| Otros Expeertos (N. Ardito barletta) | 3.5 | 4.0 | 3.75 |
| The Economist Magazine | | 1.2 | 1.20 |
| IMAE (Dato original CGR) | | | |
| IMAE (Ajuste desfase histórico 3 últimos años) | | | |
| PIB IMAE (Ajuste desfase histórico 6 últimos años) | | | |
| Promedio simple | | | |
| Extremos | 4.25 | 2.81 | 3.53 |
| Promedio AJUSTADO (Sin Extremos) | | | |
| | | 2.79 | 2.77 |

CUADRO No.7

PIB ESTIMADO AL 2010, SEGÚN ESCENARIO, DIVISION Y ACTIVIDAD ECONOMICA (Millones de B/. 1996)

| GRAN DIVISION ECONOMICA | AÑO 2009 | | | | | AÑO 2010 | | | | | | | | | |
|--|-----------------|----------------------------------|-----------------------|-----------------------------------|--|----------------------------------|---------------------------------|----------------------------------|----------------------------------|--------------------------------|----------------------------------|----------------------------------|---------------------------------|----------------------------------|--|
| | PIB 2008 (P) | ESTRUCTURA ESTIMADA AÑO 2008 (%) | PIB ESTIMADO AÑO 2009 | VARIACION DEL PIB I SEM 2009-2008 | VARIACION ANUAL DEL PIB ESTIMADA 2009-2008 | ESCENARIO OPTIMISTA | | | ESCENARIO MODERADO | | | ESCENARIO PESIMISTA | | | |
| | | | | | | VARIACION ANUAL DEL PIB AJUSTADA | PIB ESTIMADO AÑO 2009 OPTIMISTA | ESTRUCTURA ESTIMADA AÑO 2009 (%) | VARIACION ANUAL DEL PIB AJUSTADA | PIB ESTIMADO AÑO 2009 MODERADO | ESTRUCTURA ESTIMADA AÑO 2009 (%) | VARIACION ANUAL DEL PIB AJUSTADA | PIB ESTIMADO AÑO 2009 PESIMISTA | ESTRUCTURA ESTIMADA AÑO 2009 (%) | |
| 1. Agricultura, silvicultura y caza | 714.9 | 3.91% | 628.6 | -12.45% | -12.08% | 2.12% | 641.9 | 3.18% | 1.41% | 637.4 | 3.16% | 0.28% | 630.3 | 3.20% | |
| 2. Pesca | 413.1 | 2.22% | 394.9 | -3.33% | -4.41% | 5.08% | 415.0 | 2.06% | 1.69% | 401.6 | 1.99% | 0.68% | 397.6 | 2.02% | |
| 3. Explotación de canteras | 259.0 | 1.38% | 294.0 | 13.08% | 13.53% | 14.42% | 336.5 | 1.67% | 9.62% | 322.3 | 1.60% | 4.81% | 308.2 | 1.56% | |
| Subtotal Sector Primario | 1387 | 7.51% | 1317.5 | -5.59% | | | 1,393.3 | 6.91% | | 1,361.3 | 6.75% | | 1,336.1 | 6.78% | |
| 4. Industria Manufacturera | 1,171.9 | 6.22% | 1,161.1 | 2.10% | -0.92% | 1.43% | 1,177.8 | 5.84% | 0.96% | 1,172.2 | 5.81% | 0.38% | 1,165.5 | 5.91% | |
| 5. Electricidad, gas y agua | 501.2 | 2.71% | 525.4 | 4.50% | 4.83% | 4.97% | 551.5 | 2.73% | 3.97% | 546.3 | 2.71% | 1.99% | 535.8 | 2.66% | |
| 6. Construcción | 1,075.0 | 5.65% | 1,231.0 | 0.37% | 14.51% | 7.71% | 1,325.9 | 6.57% | 5.39% | 1,297.4 | 6.43% | 3.85% | 1,278.4 | 6.48% | |
| 7. Transporte, almacenamiento y comunicaciones | 4,050.6 | 21.11% | 4,319.8 | 2.96% | 6.65% | 9.43% | 4,727.3 | 23.44% | 7.55% | 4,645.8 | 23.03% | 0.63% | 4,346.9 | 22.04% | |
| Subtotal Sector Secundario y de infraestructura | 6798.7 | 35.69% | 7237.3 | 16.26% | | | 7,782.4 | 38.58% | | 7,661.7 | 37.98% | | 7,326.8 | 37.15% | |
| 8. Comercio al por mayor y al por menor | 2,704.6 | 14.07% | 2,474.9 | -8.24% | -8.49% | 2.73% | 2,542.5 | 12.60% | 1.37% | 2,508.7 | 12.44% | 0.68% | 2,491.8 | 12.64% | |
| 9. Hoteles y Restaurantes | 531.9 | 2.94% | 547.8 | 2.16% | 3.00% | 3.24% | 565.6 | 2.80% | 2.16% | 559.7 | 2.77% | 1.08% | 553.8 | 2.81% | |
| 10. Intermediación Financiera | 1,636.7 | 7.83% | 1,819.7 | 2.04% | 11.18% | 2.99% | 1,874.0 | 2.32% | 1.79% | 1,852.3 | 9.18% | 1.19% | 1,841.4 | 9.34% | |
| 11. Actividades Inmobiliarias, empresariales y de alquiler | 1,052.5 | 5.99% | 990.5 | -5.08% | -5.89% | 1.86% | 1,009.0 | 3.75% | 1.86% | 1,009.0 | 5.00% | 0.93% | 999.7 | 5.07% | |
| 12. Enseñanza Privada | 117.8 | 0.62% | 123.6 | 5.42% | 4.92% | 4.19% | 128.8 | 0.64% | 3.14% | 127.5 | 0.63% | 2.10% | 126.2 | 0.64% | |
| Menos: Servicio de intermediación financiera | -403.9 | -1.71% | -465.1 | 7.44% | 15.15% | 1.30% | -471.2 | -2.34% | 1.30% | -471.2 | -2.34% | 0.97% | -469.6 | -2.38% | |
| Subtotal Sector Terciario (comercial y financiero) | 5639.6 | 29.74% | 5491.4 | -4.29% | | | 5,648.7 | 28.00% | | 5,585.9 | 27.69% | | 5,543.2 | 28.11% | |
| 13. Actividades de servicio sociales y de salud privada | 161.7 | 0.83% | 165.9 | 1.48% | 2.62% | 2.70% | 170.4 | 0.84% | 1.35% | 168.2 | 0.83% | 1.35% | 168.2 | 0.85% | |
| 14. Otras actividades comunitarias, sociales y personales | 555.5 | 2.93% | 576.7 | 3.69% | 3.81% | 3.01% | 594.0 | 2.94% | 3.01% | 594.0 | 2.94% | 3.01% | 594.0 | 3.01% | |
| 15. Productores de servicios gubernamentales | 1,321.0 | 7.10% | 1,383.9 | 4.02% | 4.76% | 2.27% | 1,415.4 | 7.02% | 2.27% | 1,415.4 | 7.02% | 2.27% | 1,415.4 | 7.18% | |
| Construcción | 45.3 | 0.25% | 48.6 | 3.91% | 7.21% | 4.19% | 50.6 | 0.25% | 4.19% | 50.6 | 0.25% | 2.09% | 49.6 | 0.25% | |
| Actividades Inmobiliarias, empresariales y de alquiler | 1,718.9 | 8.98% | 1,844.9 | 8.24% | 7.33% | 4.90% | 1,935.3 | 9.59% | 3.27% | 1,905.2 | 9.44% | 1.31% | 1,869.0 | 9.48% | |
| Hogares privados con servicio doméstico | 114.7 | 0.63% | 114.3 | 0.53% | -0.39% | 2.25% | 116.8 | 0.58% | 2.25% | 116.8 | 0.58% | 1.12% | 115.5 | 0.59% | |
| 16. Productores de servicios domésticos | 1878.9 | 9.86% | 2,007.7 | 7.66% | 6.86% | | 2102.7 | 10.42% | | 2072.6 | 10.27% | | 2034.1 | 10.32% | |
| Subtotal Sector Terciario (oficial y personal) | 3917.1 | 20.73% | 4134.3 | 5.63% | | | 4,282.5 | 21.23% | | 4,250.1 | 21.07% | | 4,211.7 | 21.36% | |
| Más: Derechos de importación e ITBM | 365.0 | 5.00% | 390.4 | 0.00% | 0.00% | 0.00% | 409.2 | 2.03% | 0.00% | 406.1 | 2.01% | 0.00% | 402.9 | 2.04% | |
| Más: ITBM que graba las compras de los hogares | 330.3 | 5.00% | 345.7 | 0.00% | 0.00% | 0.00% | 362.2 | 1.80% | 0.00% | 359.5 | 1.78% | 0.00% | 356.7 | 1.81% | |
| Más: Otros impuestos a los productores | 650.0 | 5.00% | 704.9 | 0.00% | 0.00% | 0.00% | 738.8 | 3.66% | 0.00% | 733.1 | 3.63% | 0.00% | 727.5 | 3.69% | |
| Menos: Subvenciones a los productores | -170.0 | 5.00% | -179.3 | 0.00% | 0.00% | 0.00% | -187.9 | -0.93% | 0.00% | -186.4 | -0.92% | 0.00% | -185.0 | -0.94% | |
| Subtotal Impuestos y transferencias | 1,175.3 | 6.33% | 1,261.8 | 7.58% | 7.36% | 4.80% | 1,322.3 | 6.56% | 4.00% | 1,312.2 | 6.51% | 3.20% | 1,302.1 | 6.60% | |
| Producto Interno Bruto Real | 18,917.7 | 100.0% | 19,442.2 | 2.43% | 2.77% | | 20,429.2 | 101.28% | | 20,171.3 | 100.00% | | 19,719.9 | 100.00% | |
| | | | 19,442.2 | | | | | | | | | | | | |
| TASA DE VARIACION | | | | 2.77% | | | 5.08% | | | 3.75% | | | 1.43% | | |

CUADRO No.8

ESTIMADOS DE MONTOS Y VARIACIONES ANUALES DEL PRODUCTO INTERNO BRUTO AÑOS 2010-2024

| AÑOS | Producto Interno Bruto 2009 de 2.61% (2) | | | | | | |
|------|--|------------|-----------------------|------------|-----------------------|------------|--------|
| | ESCENARIO MODERADO | | ESCENARIO OPTIMISTA | | ESCENARIO PESIMISTA | | |
| | VAR. ANUAL | VAR. ANUAL | VAR. ANUAL | VAR. ANUAL | VAR. ANUAL | VAR. ANUAL | |
| | (En miles de Balboas) | (En %) | (En miles de Balboas) | (En %) | (En miles de Balboas) | (En %) | |
| 2005 | | | | | | | |
| 2006 | REAL | 15,238.6 | 8.50% | 15,238.6 | 8.50% | 15,238.6 | 8.50% |
| 2007 | | 17,084.4 | 12.11% | 17,084.4 | 12.11% | 17,084.4 | 12.11% |
| 2008 | PREELIMINAR | 18,917.7 | 10.73% | 18,917.7 | 10.73% | 18,917.7 | 10.73% |
| 2009 | ESTIMADO | 19,411.5 | 2.61% | 19,411.5 | 2.61% | 19,411.5 | 2.61% |
| 2010 | | 20,139.4 | 3.75% | 20,429.2 | 5.08% | 19,719.9 | 1.43% |
| 2011 | PRONOSTICOS | 21,448.5 | 6.50% | 22,175.4 | 8.55% | 20,750.2 | 5.22% |
| 2012 | | 22,842.6 | 6.50% | 24,226.3 | 9.25% | 21,354.0 | 2.91% |
| 2013 | | 24,327.4 | 6.50% | 26,066.6 | 7.60% | 22,631.8 | 5.98% |
| 2014 | | 25,908.7 | 6.50% | 27,929.0 | 7.14% | 24,102.9 | 6.50% |
| 2015 | | 27,617.2 | 6.59% | 30,045.7 | 7.58% | 25,532.8 | 5.93% |
| 2016 | | 28,791.1 | 4.25% | 31,873.1 | 6.08% | 26,272.4 | 2.90% |
| 2017 | | 30,069.4 | 4.44% | 33,622.4 | 5.49% | 27,252.3 | 3.73% |
| 2018 | | 32,062.9 | 6.63% | 36,114.1 | 7.41% | 28,938.5 | 6.19% |
| 2019 | | 33,769.3 | 5.32% | 38,356.6 | 6.21% | 30,330.3 | 4.81% |
| 2020 | | 35,469.4 | 5.03% | 40,606.7 | 5.87% | 31,698.9 | 4.51% |
| 2021 | | 36,397.3 | 2.62% | 42,128.3 | 3.75% | 32,304.3 | 1.91% |
| 2022 | | 37,797.0 | 3.85% | 44,300.1 | 5.16% | 33,352.6 | 3.25% |
| 2023 | | 39,441.3 | 4.35% | 46,901.5 | 5.87% | 34,602.2 | 3.75% |
| 2024 | | 41,826.0 | 6.05% | 50,198.5 | 7.03% | 36,560.6 | 5.66% |

Crecimiento Anual

| Tipo | Años | Periodo | | | |
|-------------|------|-------------|-------|-------|-------|
| Estudio | 19 | (2006-2023) | 5.94% | 6.95% | 5.19% |
| Histórico | 4 | (2006-2009) | 6.24% | 6.24% | 6.24% |
| Pronostico | 15 | (2010-2024) | 5.25% | 6.54% | 4.31% |
| Corto Plazo | 4 | (2010-2013) | 6.50% | 8.46% | 4.70% |
| Medio Plazo | 7 | (2014-2019) | 5.44% | 6.55% | 4.70% |
| Largo Plazo | 5 | (2020-2024) | 4.21% | 5.44% | 3.63% |
| | | | 4.72% | | |

- NOTAS:
- (1) Escenarios a partir de un Producto Interno bruto al 2009 de 3.40%, estimado con base al comportamiento historico al segundo trimestre del PIB, en el periodo 2001-2008.
 - (2) Escenarios ajustados a partir de un Producto Interno bruto al 2009 de 2.61%, derivado del comportamiento real del PIB durante los dos primeros trimestres del año, con respecto al promedio estructural 'del mismo durante los ultimos tres años. Boletín de la Dirección de Estadísticas y Censo,
 - (3) Escenario Moderado esta basado en el escenario "**mas probable**" definido por INTRACORP, Voumen III, xxiv .Con Expansion del Canal, incremento de 3.5% de peajes,e inversion de 5.5 miles de millones de \$ USA.
 - (4) Escenario Optimista esta basado en el "**mejor escenario**", definido por INTRACORP, Voumen III, xxiv .Con Expansion del Canal , incremento de 3.5% de peajes,e inversion de 4.7 miles de millones de \$ USA.
 - (5) Escenario Pesimista esta basado en el "**peor escenario**", definido por INTRACORP, Voumen III, xxiv .Con Expansion del Canal , incremento de 3.5% de peajes,e inversion de 4.7 miles de millones de \$ USA.
 - (6) Las tasas de crecimiento de los escenarios moderado, optimista y pesimista para el 2010 con respecto al año precedente fueron estimadas en 7.75, 8.0 y 4.99 por ciento. Tasa derivadas de la simulacion del PIB, desarrollado para el año 2010. La Hoja EXCEL es PIB Estructural Estimado 2009.

Fuente: Desarrollo de ETESA basados en los escenarios elaborados por INTRACORP, por medio de un Modelo Matematico de Insumo- Producto, para mostrar los impactos directos,inducidos, paralelos y del Conglomerado del canal en la economia nacional . "**Estudio del Impacto Economico del Canal y el Proyecto de Ampliacion en el Ambito Nacional**". Revision, Abril de 2006.

CUADRO No.9
EMPALME DE BASES 1996 => 1982 PIB 2010-2024

| AÑOS | Indice 1996=100 | PRODUCTO INTERNO BRUTO | | | | | | | | | | | | | | | | | | | |
|----------------------|--------------------|------------------------|----------------|--------------|------------------------|--------------------|-----------|----------------|--------------------|--------------|-------|------------------------|--------------------------|-----------|-----------|---------|--|--|--|--|--|
| | | EN DOLARES DE 1996 | | | TASA DE CRECIMIENTO | EN DOLARES DE 1996 | | | EN DOLARES DE 1982 | | | TASA DE CRECIMIENTO | EMPALME BASES 1996- 1982 | | | | | | | | |
| | | CORRIENTES | CONSTANTES | INDEX | | MODERADO | OPTIMISTA | PESIMISTA | CORRIENTES | CONSTANTES | INDEX | | MODERADO | OPTIMISTA | PESIMISTA | | | | | | |
| 1982 | | 5,449.2 | 6,970.4 | 78.2 | | | | 4,767.7 | 4,767.7 | 100.0 | | | | | | | | | | | |
| 1990 | | 6,076.5 | 6,939.6 | 87.6 | | | | 5,313.2 | 4,743.6 | 112.0 | | | | 4,743.6 | 4,743.6 | 4,743.6 | | | | | |
| 1991 | | 6,681.6 | 7,593.2 | 88.0 | 9.42% | | | 5,842.3 | 5,190.4 | 112.6 | 9.42% | | | 5,190.4 | 5,190.4 | 5,190.4 | | | | | |
| 1992 | | 7,595.5 | 8,216.0 | 92.4 | 8.20% | | | 6,641.4 | 5,616.1 | 118.3 | 8.20% | | | 5,616.1 | 5,616.1 | 5,616.1 | | | | | |
| 1993 | | 8,294.6 | 8,664.2 | 95.7 | 5.46% | | | 7,252.7 | 5,922.5 | 122.5 | 5.46% | | | 5,922.5 | 5,922.5 | 5,922.5 | | | | | |
| 1994 | | 8,845.0 | 8,911.2 | 99.3 | 2.85% | | | 7,733.9 | 6,091.3 | 127.0 | 2.85% | | | 6,091.3 | 6,091.3 | 6,091.3 | | | | | |
| 1995 | | 9,041.9 | 9,067.3 | 99.7 | 1.75% | | | 7,906.1 | 6,198.0 | 127.6 | 1.75% | | | 6,198.0 | 6,198.0 | 6,198.0 | | | | | |
| 1996 | | 9,322.1 | 9,322.1 | 100.0 | 2.81% | | | 8,151.1 | 6,372.2 | 127.9 | 2.81% | | | 6,372.2 | 6,372.2 | 6,372.2 | | | | | |
| 1997 | | 10,084.0 | 9,924.4 | 101.6 | 6.46% | | | 8,657.5 | 6,657.5 | 130.0 | 4.48% | | | 6,657.5 | 6,657.5 | 6,657.5 | | | | | |
| 1998 | | 10,932.5 | 10,635.0 | 102.8 | 7.16% | | | 9,344.7 | 6,947.2 | 134.5 | 4.35% | | | 6,947.2 | 6,947.2 | 6,947.2 | | | | | |
| 1999 | | 11,456.3 | 11,070.3 | 103.5 | 4.09% | | | 9,636.6 | 7,169.9 | 134.4 | 3.21% | | | 7,169.9 | 7,169.9 | 7,169.9 | | | | | |
| 2000 | | 11,620.5 | 11,370.9 | 102.2 | 2.72% | | | 10,019.0 | 7,345.7 | 136.4 | 2.45% | | | 7,345.7 | 7,345.7 | 7,345.7 | | | | | |
| 2001 | | 11,807.5 | 11,436.2 | 103.2 | 0.57% | | | | 7,365.2 | 0.0 | | | | 7,365.2 | 7,365.2 | 7,365.2 | | | | | |
| 2002 | | 12,272.4 | 11,691.1 | 105.0 | 2.23% | | | | | | | | 7,529.4 | 7,529.4 | 7,529.4 | | | | | | |
| 2003 | | 12,933.2 | 12,182.8 | 106.2 | 4.21% | | | | | | | | 7,846.0 | 7,846.0 | 7,846.0 | | | | | | |
| 2004 | | 14,179.3 | 13,099.2 | 108.2 | 7.52% | | | | | | | | 8,436.2 | 8,436.2 | 8,436.2 | | | | | | |
| 2005 | | 15,464.7 | 14,041.2 | 110.1 | 7.19% | | | | | | | | 9,042.9 | 9,042.9 | 9,042.9 | | | | | | |
| 2006 | | 17,137.0 | 15,238.6 | 112.5 | 8.53% | | | | | | | | 9,814.0 | 9,814.0 | 9,814.0 | | | | | | |
| 2007 | | 19,793.7 | 17,084.5 | 115.9 | 12.11% | | | | | | | | 11,002.8 | 11,002.8 | 11,002.8 | | | | | | |
| 2008 PRELIMINAR | | 23,183.9 | 18,917.6 | 122.6 | 10.73% | | | | | | | | 12,183.4 | 12,183.4 | 12,183.4 | | | | | | |
| 2009 ESTIMADO | | | 19,411.5 | | 2.61% | 19,411.5 | 19,411.5 | 19,411.5 | | | | | 12,501.5 | 12,501.5 | 12,501.5 | | | | | | |
| 2010 | | | | | | 20,139.4 | 20,429.2 | 19,719.9 | | | | | 12,970.3 | 13,156.9 | 12,700.1 | | | | | | |
| 2011 | | | | | | 21,448.5 | 22,175.4 | 20,750.2 | | | | | 13,813.4 | 14,281.5 | 13,363.6 | | | | | | |
| 2012 | | | | | | 22,842.6 | 24,226.3 | 21,354.0 | | | | | 14,711.2 | 15,602.3 | 13,752.5 | | | | | | |
| 2013 | | | | | | 24,327.4 | 26,066.6 | 22,631.8 | | | | | 15,667.5 | 16,787.6 | 14,575.5 | | | | | | |
| 2014 | | | | | | 25,908.7 | 27,929.0 | 24,102.9 | | | | | 16,685.8 | 17,987.0 | 15,522.9 | | | | | | |
| 2015 | | | | | | 27,617.2 | 30,045.7 | 25,532.8 | | | | | 17,786.2 | 19,350.2 | 16,443.7 | | | | | | |
| 2016 | | | | | | 28,791.1 | 31,873.1 | 26,272.4 | | | | | 18,542.2 | 20,527.1 | 16,920.1 | | | | | | |
| 2017 | | | | | | 30,069.4 | 33,622.4 | 27,252.3 | | | | | 19,365.4 | 21,653.7 | 17,551.1 | | | | | | |
| 2018 | | | | | | 32,062.9 | 36,114.1 | 28,938.5 | | | | | 20,649.3 | 23,258.4 | 18,637.1 | | | | | | |
| 2019 | | | | | | 33,769.3 | 38,356.6 | 30,330.3 | | | | | 21,748.3 | 24,702.6 | 19,533.5 | | | | | | |
| 2020 | | | | | | 35,469.4 | 40,606.7 | 31,698.9 | | | | | 22,843.2 | 26,151.8 | 20,414.9 | | | | | | |
| 2021 | | | | | | 36,397.3 | 42,128.3 | 32,304.3 | | | | | 23,440.8 | 27,131.7 | 20,804.8 | | | | | | |
| 2022 | | | | | | 37,797.0 | 44,300.1 | 33,352.6 | | | | | 24,342.2 | 28,530.4 | 21,479.9 | | | | | | |
| 2023 | | | | | | 39,441.3 | 46,901.5 | 34,602.2 | | | | | 25,401.2 | 30,205.8 | 22,284.7 | | | | | | |
| 2024 | | | | | | 41,826.0 | 50,198.5 | 36,560.6 | | | | | 26,937.0 | 32,329.1 | 23,546.0 | | | | | | |

CUADRO No.10

ESTIMADOS DE MONTOS Y VARIACIONES ANUALES PRODUCTO INTERNO BRUTO DE LA ACTIVIDAD DE MANUFACTURA AÑOS 2010-2024

| AÑOS | Producto Interno Bruto 2009 de 2.65% (2) | | | | | |
|------|--|----------------------|---------------------------------|----------------------|---------------------------------|----------------------|
| | ESCENARIO MODERADO | | ESCENARIO OPTIMISTA | | ESCENARIO PESIMISTA | |
| | MONTOS (En miles de Balboas) | VAR. ANUAL (En %) | MONTOS (En miles de Balboas) | VAR. ANUAL (En %) | MONTOS (En miles de Balboas) | VAR. ANUAL (En %) |
| 2004 | | | | | | |
| 2005 | | | | | | |
| 2006 | REAL | 1,026.9 | | 1,026.9 | | 1,026.9 |
| 2007 | | 1,066.7 | 3.88% | 1,066.7 | 3.88% | 1,066.7 |
| 2007 | | 1,126.7 | 5.62% | 1,126.7 | 5.62% | 1,126.7 |
| 2008 | PRELIMINAR | 1,171.9 | 4.01% | 1,171.9 | 4.01% | 1,171.9 |
| 2009 | | 1,161.1 | -0.92% | 1,161.1 | -0.92% | 1,161.1 |
| 2010 | Estimado | 1,172.2 | 0.96% | 1,177.8 | 1.43% | 1,165.5 |
| 2011 | | 1,186.8 | 1.25% | 1,194.8 | 1.45% | 1,177.2 |
| 2012 | | 1,190.1 | 0.28% | 1,196.7 | 0.15% | 1,177.7 |
| 2013 | | 1,186.8 | -0.28% | 1,210.5 | 1.16% | 1,181.1 |
| 2014 | | 1,233.4 | 3.93% | 1,268.1 | 4.76% | 1,225.8 |
| 2015 | | 1,330.9 | 7.90% | 1,388.4 | 9.49% | 1,308.5 |
| 2016 | | 1,374.2 | 3.26% | 1,455.3 | 4.81% | 1,338.2 |
| 2017 | | 1,425.1 | 3.70% | 1,522.1 | 4.59% | 1,380.5 |
| 2018 | | 1,484.4 | 4.16% | 1,599.1 | 5.06% | 1,429.6 |
| 2019 | | 1,541.4 | 3.84% | 1,676.1 | 4.81% | 1,476.3 |
| 2020 | | 1,606.0 | 4.19% | 1,759.5 | 4.98% | 1,529.7 |
| 2021 | | 1,665.3 | 3.70% | 1,840.2 | 4.58% | 1,577.4 |
| 2022 | | 1,722.3 | 3.42% | 1,929.6 | 4.86% | 1,623.6 |
| 2023 | | 1,774.6 | 3.04% | 2,020.4 | 4.71% | 1,664.9 |
| 2024 | | 1,866.9 | 5.20% | 2,132.4 | 5.54% | 1,739.8 |

Crecimiento Anual

| Tipo | Años | Periodo | | | |
|-------------|------|-------------|-------|-------|-------|
| Estudio | 19 | (2006-2023) | 3.11% | 3.86% | 2.74% |
| Histórico | 3 | (2006-2008) | 4.50% | 4.50% | 4.50% |
| Pronostico | 15 | (2009-2023) | 2.80% | 3.70% | 2.37% |
| Corto Plazo | 4 | (2009-2012) | 0.39% | 0.52% | 0.12% |
| | 5 | (2009-2013) | 0.25% | 0.65% | 0.16% |
| | 10 | (2009-2013) | 4.10% | 5.26% | 3.49% |
| Medio Plazo | 6 | (2013-2018) | 3.75% | 4.95% | 3.28% |
| Largo Plazo | 5 | (2019-2023) | 3.63% | 4.79% | 3.09% |

NOTAS:

- (1) Escenarios a partir de un Producto Interno bruto al 2008 de 8.3%, estimado previstoinicial del MEF para este año.
- (2) Escenarios a partir de un Producto Interno bruto al 2008 de 8.71%, derivado del comportamiento real del PIB durante los dos primeros trimestres del año, Boletín de la Dirección de ESTAdísticas y Censo, Evolución Trimestral del PIB (II Trimestre del 2008). Con un incremento de 9.5% del I semestre del año con respecto al año anterior. Además, el Índice Mensual de la actividad Económica (IMAE) de enero-agosto del 2008 muestra un incremento de 9.2 por ciento, con respecto al mismo periodo del año anterior.
- (3) Escenario Moderado esta basado en el escenario "mas probable" definido por INTRACORP, Voumen III, xxiv .Con Expansion del Canal, incremento de 3.5% de peajes,e inversion de 5.5 miles de millones de \$ USA.
- (4) Escenario Optimista esta basado en el "mejor escenario", definido por INTRACORP, Voumen III, xxiv .Con Expansion del Canal , incremento de 3.5% de peajes,e inversion de 4.7 miles de millones de \$ USA.
- (5) Escenario Pesimista esta basado en el "peor escenario", definido por INTRACORP, Voumen III, xxiv .Con Expansion del Canal , incremento de 3.5% de peajes,e inversion de 4.7 miles de millones de \$ USA.
- (6) Las tasas de crecimiento de los escenarios moderado, optimista y pesimista para el 2009 con respecto al año precedente fueron estimadas en 7.75, 8.0 y 4.99 por ciento. Tasa derivadas de la simulacion del PIB, desarrollado para el año 2009. La Hoja EXCEL es PIB Estructural Estimado 2009.

Fuente:

Desarrollo de ETESA basados en los escenarios elaborados por INTRACORP, por medio de un Modelo Matematico de Insumo- Producto, para mostrar los impactos directos,inducidos, paralelos y del Conglomerado del canal en la economia nacional . "Estudio del Impacto Economico del Canal y el Proyecto de Ampliacion en el Ambito Nacional". Revision, Abril de 2006.

CUADRO No. 11

PRODUCTO INTERNO BRUTO

ESCENARIO BASE

MODERADO

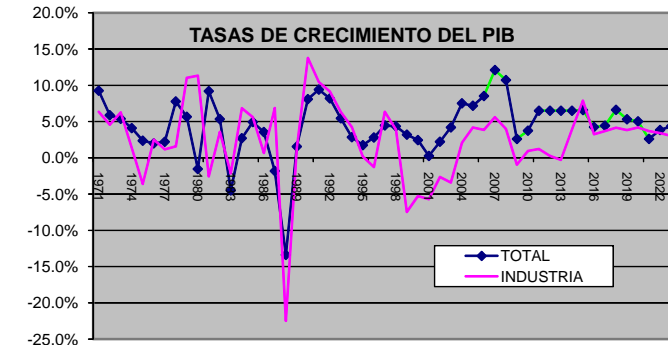
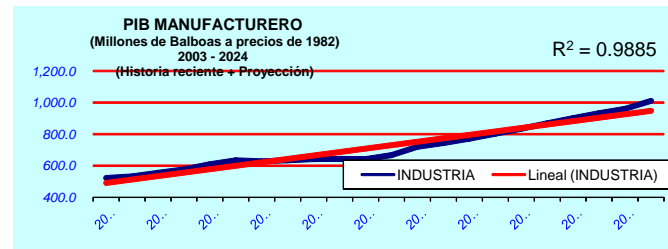
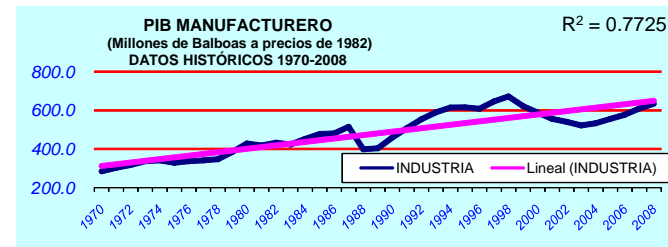
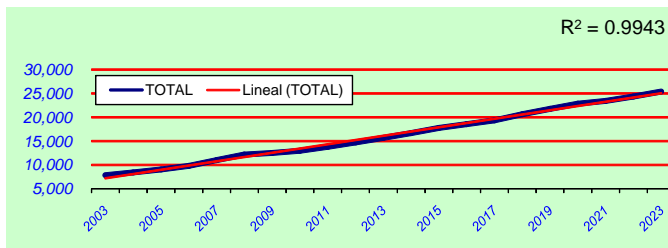
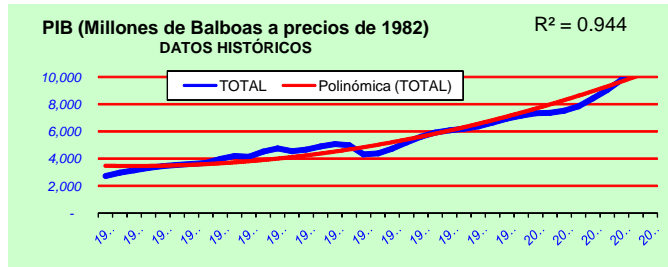
Millones de Balboas de 1982

| AÑO | TOTAL | VAR% | INDUSTRIA | VAR% | %TOTAL |
|-----------------------------|--------|-------------|-----------|-------------|-------------|
| 1970 | 2,725 | | 285.1 | | 10.5% |
| 1971 | 2,978 | 9.3% | 303.2 | 6.3% | 10.2% |
| 1972 | 3,153 | 5.9% | 317.1 | 4.6% | 10.1% |
| 1973 | 3,323 | 5.4% | 337.0 | 6.3% | 10.1% |
| 1974 | 3,460 | 4.1% | 341.5 | 1.3% | 9.9% |
| 1975 | 3,542 | 2.4% | 329.2 | -3.6% | 9.3% |
| 1976 | 3,613 | 2.0% | 337.5 | 2.5% | 9.3% |
| 1977 | 3,693 | 2.2% | 341.5 | 1.2% | 9.2% |
| 1978 | 3,980 | 7.8% | 346.9 | 1.6% | 8.7% |
| 1979 | 4,206 | 5.7% | 385.2 | 11.0% | 9.2% |
| 1980 | 4,142 | -1.5% | 428.9 | 11.3% | 10.4% |
| 1981 | 4,523 | 9.2% | 418.0 | -2.5% | 9.2% |
| 1982 | 4,765 | 5.3% | 433.0 | 3.6% | 9.1% |
| 1983 | 4,551 | -4.5% | 423.7 | -2.1% | 9.3% |
| 1984 | 4,674 | 2.7% | 452.7 | 6.8% | 9.7% |
| 1985 | 4,905 | 4.9% | 478.1 | 5.6% | 9.7% |
| 1986 | 5,080 | 3.6% | 481.4 | 0.7% | 9.5% |
| 1987 | 4,988 | -1.8% | 514.5 | 6.9% | 10.3% |
| 1988 | 4,321 | -13.4% | 398.9 | -22.5% | 9.2% |
| 1989 | 4,388 | 1.6% | 404.1 | 1.3% | 9.2% |
| 1990 | 4,744 | 8.1% | 459.8 | 13.8% | 9.7% |
| 1991 | 5,190 | 9.4% | 507.9 | 10.5% | 9.8% |
| 1992 | 5,616 | 8.2% | 554.4 | 9.2% | 9.9% |
| 1993 | 5,923 | 5.5% | 589.5 | 6.3% | 10.0% |
| 1994 | 6,091 | 2.9% | 614.6 | 4.3% | 10.1% |
| 1995 | 6,198 | 1.8% | 615.8 | 0.2% | 9.9% |
| 1996 | 6,372 | 2.8% | 608.1 | -1.3% | 9.5% |
| 1997 | 6,658 | 4.5% | 646.8 | 6.4% | 9.7% |
| 1998 | 6,947 | 4.4% | 672.1 | 3.9% | 9.7% |
| 1999 | 7,170 | 3.2% | 622.0 | -7.5% | 8.7% |
| 2000 | 7,346 | 2.5% | 589.2 | -5.3% | 8.0% |
| 2001 | 7,365 | 0.3% | 555.6 | -5.7% | 7.5% |
| 2002 | 7,529 | 2.2% | 541.0 | -2.6% | 7.2% |
| 2003 | 7,846 | 4.2% | 522.6 | -3.4% | 6.7% |
| 2004 | 8,436 | 7.5% | 533.5 | 2.1% | 6.3% |
| 2005 | 9,043 | 7.2% | 555.9 | 4.2% | 6.1% |
| 2006 | 9,814 | 8.5% | 577.5 | 3.9% | 5.9% |
| 2007 | 11,003 | 12.1% | 610.0 | 5.6% | 5.5% |
| 2008 | 12,183 | 10.7% | 634.4 | 4.01% | 5.2% |
| 2009 | 12,501 | 2.6% | 628.6 | -0.92% | 5.0% |
| 2010 | 12,970 | 3.8% | 634.6 | 0.96% | 4.9% |
| 2011 | 13,813 | 6.5% | 642.5 | 1.25% | 4.7% |
| 2012 | 14,711 | 6.5% | 644.3 | 0.28% | 4.4% |
| 2013 | 15,667 | 6.5% | 642.5 | -0.28% | 4.1% |
| 2014 | 16,686 | 6.5% | 667.7 | 3.93% | 4.0% |
| 2015 | 17,786 | 6.6% | 720.5 | 7.90% | 4.1% |
| 2016 | 18,542 | 4.3% | 744.0 | 3.26% | 4.0% |
| 2017 | 19,365 | 4.4% | 771.5 | 3.70% | 4.0% |
| 2018 | 20,649 | 6.6% | 803.6 | 4.16% | 3.9% |
| 2019 | 21,748 | 5.3% | 834.5 | 3.84% | 3.8% |
| 2020 | 22,843 | 5.0% | 869.4 | 4.19% | 3.8% |
| 2021 | 23,441 | 2.6% | 901.5 | 3.70% | 3.8% |
| 2022 | 24,342 | 3.8% | 932.4 | 3.42% | 3.8% |
| 2023 | 25,401 | 4.4% | 960.7 | 3.04% | 3.8% |
| 2024 | 26,937 | 6.0% | 1,010.6 | 5.20% | 3.8% |
| PROMEDIO | | 5.1% | | 3.0% | 4.1% |
| TASA ACUMULADA ANUAL | | 5.3% | | 3.2% | |

PREMISAS

a) **PIB TOTAL:** Escenario conservador, con crecimiento promedio anual de 4.4%, para todo el periodo del horizonte de planeamiento.

b) **PIB MANUFACTURERO:** Escenario conservador, con crecimiento promedio inferior al PIB total, manteniendo su participación estructural, en 4.7% del PIB Total. Promedio de los últimos tres años.



CUADRO No. 12

PRODUCTO INTERNO BRUTO

ESCENARIO ALTO

OPTIMISTA

Millones de Balboas de 1982

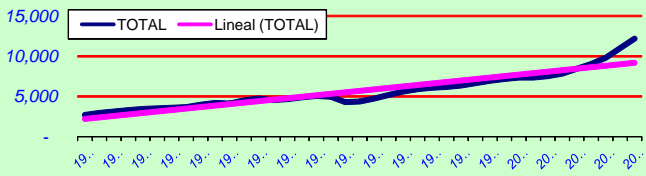
| AÑO | TOTAL | VAR% | INDUSTRIA | VAR% | %/TOTAL |
|-----------------------------|--------|-------------|-----------|-------------|-------------|
| 1970 | 2,725 | | 285.1 | | 10.5% |
| 1971 | 2,978 | 9.3% | 303.2 | 6.3% | 10.2% |
| 1972 | 3,153 | 5.9% | 317.1 | 4.6% | 10.1% |
| 1973 | 3,323 | 5.4% | 337.0 | 6.3% | 10.1% |
| 1974 | 3,460 | 4.1% | 341.5 | 1.3% | 9.9% |
| 1975 | 3,542 | 2.4% | 329.2 | -3.6% | 9.3% |
| 1976 | 3,613 | 2.0% | 337.5 | 2.5% | 9.3% |
| 1977 | 3,693 | 2.2% | 341.5 | 1.2% | 9.2% |
| 1978 | 3,980 | 7.8% | 346.9 | 1.6% | 8.7% |
| 1979 | 4,206 | 5.7% | 385.2 | 11.0% | 9.2% |
| 1980 | 4,142 | -1.5% | 428.9 | 11.3% | 10.4% |
| 1981 | 4,523 | 9.2% | 418.0 | -2.5% | 9.2% |
| 1982 | 4,765 | 5.3% | 433.0 | 3.6% | 9.1% |
| 1983 | 4,551 | -4.5% | 423.7 | -2.1% | 9.3% |
| 1984 | 4,674 | 2.7% | 452.7 | 6.8% | 9.7% |
| 1985 | 4,905 | 4.9% | 478.1 | 5.6% | 9.7% |
| 1986 | 5,080 | 3.6% | 481.4 | 0.7% | 9.5% |
| 1987 | 4,988 | -1.8% | 514.5 | 6.9% | 10.3% |
| 1988 | 4,321 | -13.4% | 398.9 | -22.5% | 9.2% |
| 1989 | 4,388 | 1.6% | 404.1 | 1.3% | 9.2% |
| 1990 | 4,744 | 8.1% | 459.8 | 13.8% | 9.7% |
| 1991 | 5,190 | 9.4% | 507.9 | 10.5% | 9.8% |
| 1992 | 5,616 | 8.2% | 554.4 | 9.2% | 9.9% |
| 1993 | 5,923 | 5.5% | 589.5 | 6.3% | 10.0% |
| 1994 | 6,091 | 2.9% | 614.6 | 4.3% | 10.1% |
| 1995 | 6,198 | 1.8% | 615.8 | 0.2% | 9.9% |
| 1996 | 6,372 | 2.8% | 608.1 | -1.3% | 9.5% |
| 1997 | 6,658 | 4.5% | 646.8 | 6.4% | 9.7% |
| 1998 | 6,947 | 4.4% | 672.1 | 3.9% | 9.7% |
| 1999 | 7,170 | 3.2% | 622.0 | -7.5% | 8.7% |
| 2000 | 7,346 | 2.5% | 589.2 | -5.3% | 8.0% |
| 2001 | 7,365 | 0.3% | 555.6 | -5.7% | 7.5% |
| 2002 | 7,529 | 2.2% | 541.0 | -2.6% | 7.2% |
| 2003 | 7,846 | 4.2% | 522.6 | -3.4% | 6.7% |
| 2004 | 8,436 | 7.5% | 533.5 | 2.1% | 6.3% |
| 2005 | 9,043 | 7.2% | 555.9 | 4.2% | 6.1% |
| 2006 | 9,814 | 8.5% | 577.5 | 3.9% | 5.9% |
| 2007 | 11,003 | 12.11% | 610.0 | 5.62% | 5.5% |
| 2008 | 12,183 | 10.73% | 634.4 | 4.01% | 5.2% |
| 2009 | 12,501 | 2.61% | 628.6 | -0.92% | 5.0% |
| 2010 | 13,157 | 5.24% | 637.6 | 1.43% | 4.8% |
| 2011 | 14,281 | 8.55% | 646.8 | 1.45% | 4.5% |
| 2012 | 15,602 | 9.25% | 647.8 | 0.15% | 4.2% |
| 2013 | 16,788 | 7.60% | 655.3 | 1.16% | 3.9% |
| 2014 | 17,987 | 7.14% | 686.5 | 4.76% | 3.8% |
| 2015 | 19,350 | 7.58% | 751.6 | 9.49% | 3.9% |
| 2016 | 20,527 | 6.08% | 787.8 | 4.81% | 3.8% |
| 2017 | 21,654 | 5.49% | 824.0 | 4.59% | 3.8% |
| 2018 | 23,258 | 7.41% | 865.7 | 5.06% | 3.7% |
| 2019 | 24,703 | 6.21% | 907.4 | 4.81% | 3.7% |
| 2020 | 26,152 | 5.87% | 952.5 | 4.98% | 3.6% |
| 2021 | 27,132 | 3.75% | 996.2 | 4.58% | 3.7% |
| 2022 | 28,530 | 5.16% | 1,044.6 | 4.86% | 3.7% |
| 2023 | 30,206 | 5.87% | 1,093.8 | 4.71% | 3.6% |
| 2024 | 32,329 | 7.03% | 1,154.4 | 5.54% | 3.6% |
| PROMEDIO | | 6.3% | | 3.8% | 4.0% |
| TASA ACUMULADA ANUAL | | 6.5% | | 4.1% | |

PREMISAS

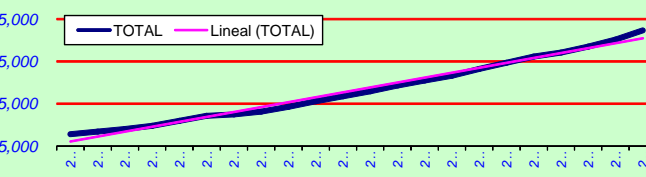
a) PIB TOTAL: Escenario conservador, con crecimiento promedio anual de 5.7%, para todo el periodo del horizonte de planeamiento.

b) PIB MANUFACTURERO: crecimiento promedio, de más de un punto porcentual a la tasa de crecimiento del PIB, manteniendo su participación estructural, de 4.7% del PIB Total. Promedio de los últimos tres años.

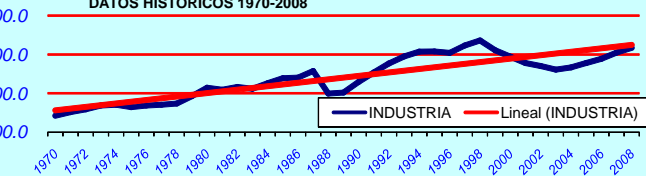
PIB (Millones de Balboas a precios de 1982) DATOS HISTÓRICOS R² = 0.9444



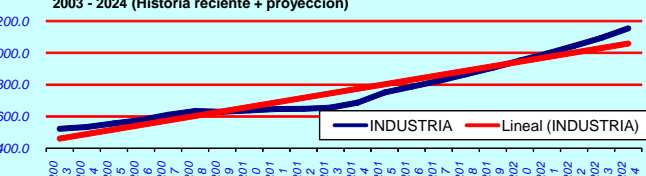
PIB (Millones de Balboas a precios de 1982) Histórico reciente + proyección R² = 0.9924



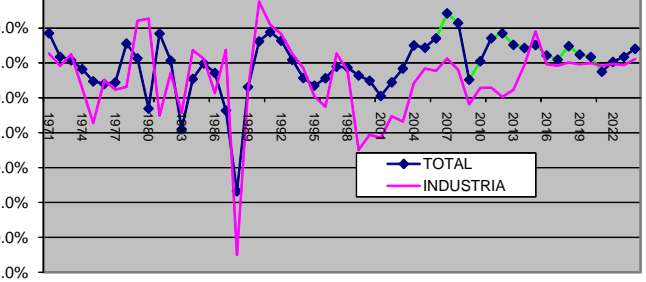
PIB MANUFACTURERO (Millones de Balboas a precios de 1982) DATOS HISTÓRICOS 1970-2008 R² = 0.7725



PIB MANUFACTURERO (Millones de Balboas a precios de 1982) 2003 - 2024 (Historia reciente + proyección) R² = 0.9851



TASAS DE CRECIMIENTO DEL PIB



CUADRO No. 13

PRODUCTO INTERNO BRUTO

ESCENARIO BAJO

PESIMISTA

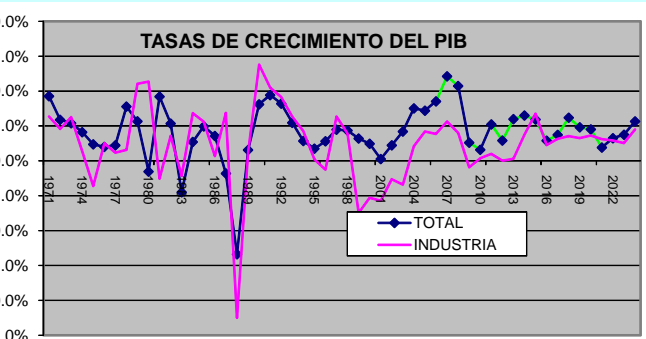
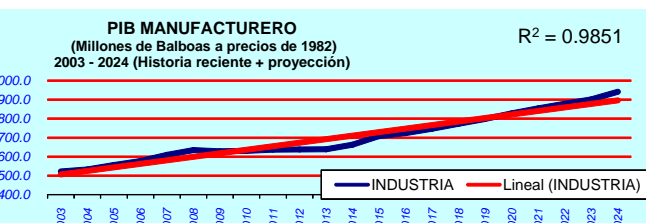
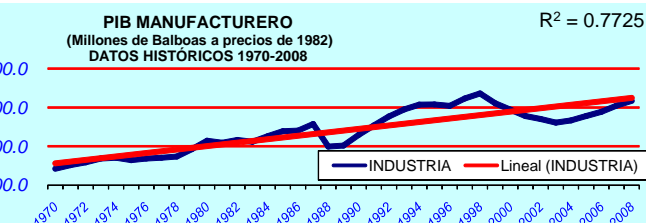
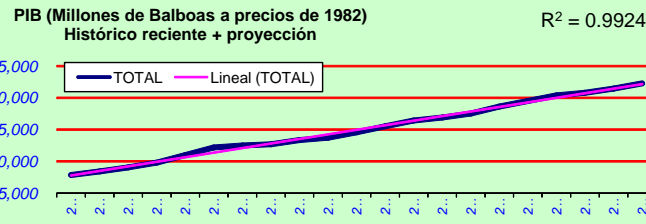
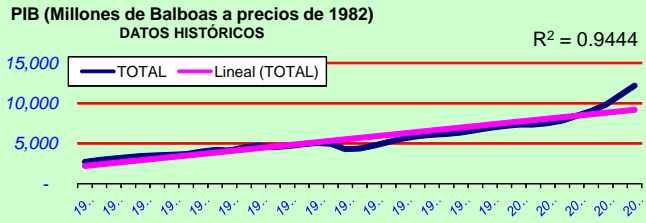
Millones de Balboas de 1982

| AÑO | TOTAL | VAR% | INDUSTRIA | VAR% | %/TOTAL |
|-----------------------------|--------|-------------|-----------|-------------|-------------|
| 1970 | 2,725 | | 285.1 | | 10.5% |
| 1971 | 2,978 | 9.3% | 303.2 | 6.3% | 10.2% |
| 1972 | 3,153 | 5.9% | 317.1 | 4.6% | 10.1% |
| 1973 | 3,323 | 5.4% | 337.0 | 6.3% | 10.1% |
| 1974 | 3,460 | 4.1% | 341.5 | 1.3% | 9.9% |
| 1975 | 3,542 | 2.4% | 329.2 | -3.6% | 9.3% |
| 1976 | 3,613 | 2.0% | 337.5 | 2.5% | 9.3% |
| 1977 | 3,693 | 2.2% | 341.5 | 1.2% | 9.2% |
| 1978 | 3,980 | 7.8% | 346.9 | 1.6% | 8.7% |
| 1979 | 4,206 | 5.7% | 385.2 | 11.0% | 9.2% |
| 1980 | 4,142 | -1.5% | 428.9 | 11.3% | 10.4% |
| 1981 | 4,523 | 9.2% | 418.0 | -2.5% | 9.2% |
| 1982 | 4,765 | 5.3% | 433.0 | 3.6% | 9.1% |
| 1983 | 4,551 | -4.5% | 423.7 | -2.1% | 9.3% |
| 1984 | 4,674 | 2.7% | 452.7 | 6.8% | 9.7% |
| 1985 | 4,905 | 4.9% | 478.1 | 5.6% | 9.7% |
| 1986 | 5,080 | 3.6% | 481.4 | 0.7% | 9.5% |
| 1987 | 4,988 | -1.8% | 514.5 | 6.9% | 10.3% |
| 1988 | 4,321 | -13.4% | 398.9 | -22.5% | 9.2% |
| 1989 | 4,388 | 1.6% | 404.1 | 1.3% | 9.2% |
| 1990 | 4,744 | 8.1% | 459.8 | 13.8% | 9.7% |
| 1991 | 5,190 | 9.4% | 507.9 | 10.5% | 9.8% |
| 1992 | 5,616 | 8.2% | 554.4 | 9.2% | 9.9% |
| 1993 | 5,923 | 5.5% | 589.5 | 6.3% | 10.0% |
| 1994 | 6,091 | 2.9% | 614.6 | 4.3% | 10.1% |
| 1995 | 6,198 | 1.8% | 615.8 | 0.2% | 9.9% |
| 1996 | 6,372 | 2.8% | 608.1 | -1.3% | 9.5% |
| 1997 | 6,658 | 4.5% | 646.8 | 6.4% | 9.7% |
| 1998 | 6,947 | 4.4% | 672.1 | 3.9% | 9.7% |
| 1999 | 7,170 | 3.2% | 622.0 | -7.5% | 8.7% |
| 2000 | 7,346 | 2.5% | 589.2 | -5.3% | 8.0% |
| 2001 | 7,365 | 0.3% | 555.6 | -5.7% | 7.5% |
| 2002 | 7,529 | 2.2% | 541.0 | -2.6% | 7.2% |
| 2003 | 7,846 | 4.2% | 522.6 | -3.4% | 6.7% |
| 2004 | 8,436 | 7.5% | 533.5 | 2.1% | 6.3% |
| 2005 | 9,043 | 7.2% | 555.9 | 4.2% | 6.1% |
| 2006 | 9,814 | 8.5% | 577.5 | 3.9% | 5.9% |
| 2007 | 11,003 | 12.11% | 610.0 | 5.62% | 5.5% |
| 2008 | 12,183 | 10.73% | 634.4 | 4.01% | 5.2% |
| 2009 | 12,501 | 2.61% | 628.6 | -0.92% | 5.0% |
| 2010 | 12,700 | 1.59% | 631.0 | 0.38% | 5.0% |
| 2011 | 13,364 | 5.22% | 637.3 | 1.00% | 4.8% |
| 2012 | 13,753 | 2.91% | 637.6 | 0.04% | 4.6% |
| 2013 | 14,575 | 5.98% | 639.4 | 0.29% | 4.4% |
| 2014 | 15,523 | 6.50% | 663.6 | 3.79% | 4.3% |
| 2015 | 16,444 | 5.93% | 708.4 | 6.74% | 4.3% |
| 2016 | 16,920 | 2.90% | 724.4 | 2.27% | 4.3% |
| 2017 | 17,551 | 3.73% | 747.3 | 3.16% | 4.3% |
| 2018 | 18,637 | 6.19% | 773.9 | 3.56% | 4.2% |
| 2019 | 19,533 | 4.81% | 799.2 | 3.27% | 4.1% |
| 2020 | 20,415 | 4.51% | 828.1 | 3.62% | 4.1% |
| 2021 | 20,805 | 1.91% | 853.9 | 3.12% | 4.1% |
| 2022 | 21,480 | 3.25% | 878.9 | 2.93% | 4.1% |
| 2023 | 22,285 | 3.75% | 901.3 | 2.55% | 4.0% |
| 2024 | 23,546 | 5.66% | 941.9 | 4.50% | 4.0% |
| PROMEDIO | | 4.2% | | 2.5% | 4.3% |
| TASA ACUMULADA ANUAL | | 4.3% | | 2.7% | |

PREMISAS

a) PIB TOTAL: Escenario conservador, con crecimiento promedio anual de 3.9%, para todo el periodo del horizonte de planeamiento.

b) PIB MANUFACTURERO: crecimiento promedio, de un punto porcentual inferior al PIB total, manteniendo su participación estructural, de 4.7% del PIB Total. En concordancia con promedio de los últimos tres años.



CUADRO No. 14

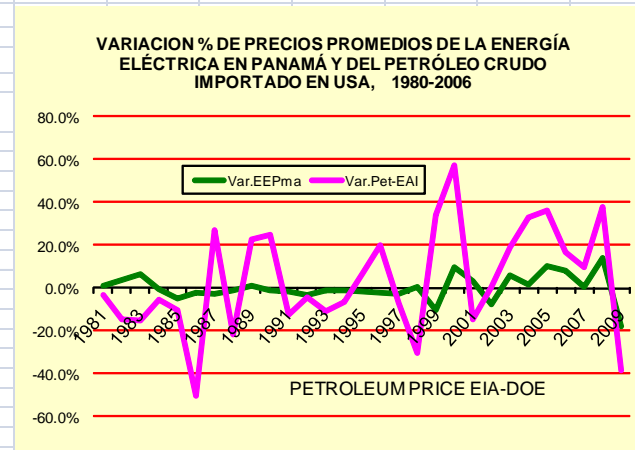
**RESUMEN DE TASAS DE CRECIMIENTO DEL PIB, SEGÚN
ESCENARIOS
2010-2024**

| PERIODOS | TOTAL | DIFERENCIAS | INDUSTRIAL | |
|---|--------------|-------------|---------------|--------------|
| | | | TASA | % /TOTAL |
| TASAS HISTÓRICAS (PIB- base 982) | | | | |
| 1980-1990 | 1.29% | 0.79% | 2.08% | 9.58% |
| 1991-2000 | 4.50% | -1.83% | 2.67% | 9.53% |
| 2001-2009 | 6.15% | -5.36% | 0.79% | 7.05% |
| Máximo | 12.1% | | 13.8% | 10.4% |
| Promedio | | -2.13% | | |
| ESCENARIO MODERADO | | | | |
| 2009 | 2.61% | | -0.92% | 6.03% |
| 2009-2010 | 3.75% | -2.79% | 0.96% | 5.91% |
| 2009-2013 | 5.17% | -4.92% | 0.26% | 5.84% |
| 2014-2024 | 5.06% | -0.85% | 4.21% | 5.82% |
| ESCENARIO OPTIMISTA | | | | |
| 2009 | 2.61% | | -0.92% | 6.01% |
| 2009-2010 | 5.24% | -3.81% | 1.43% | 5.87% |
| 2009-2013 | 6.65% | -5.99% | 0.65% | 5.78% |
| 2014-2024 | 6.14% | -0.85% | 5.29% | 5.60% |
| ESCENARIO PESIMISTA | | | | |
| 2009 | 2.61% | | -0.92% | 6.01% |
| 2009-2010 | 1.59% | -1.21% | 0.38% | 5.87% |
| 2009-2013 | 3.66% | -3.51% | 0.16% | 5.78% |
| 2014-2024 | 4.47% | -0.88% | 3.59% | 5.60% |

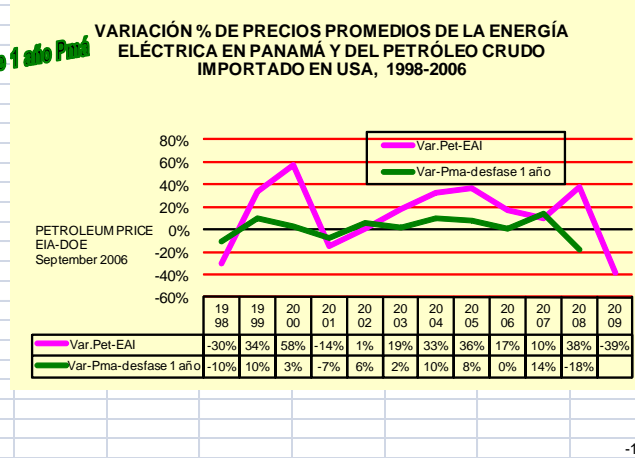
CUADRO No. 15

EVOLUCIÓN DE PRECIOS DE LA ELECTRICIDAD

| AÑO | Facturación Millones B/. | Ventas GWh | Precio | | IPC PAN | | INFPAN | | Var. anual | Var. EEPma | Var. Pet-EAI | Var-Pma-desfase 1 año |
|------|-----------------------------|---------------|------------------|-----------------|------------|------------|--------|------------|------------|------------|--------------|-----------------------|
| | | | Centavos/ KWh | Fórmula- Modelo | IPC-B-1987 | IPC-B-1982 | % | B/ de 1982 | | | | |
| 1970 | 20.8 | 710.3 | 2.93 | | 42.20 | 44.66 | | | 6.56 | | | |
| 1971 | 24.4 | 775.4 | 3.15 | | 43.00 | 45.50 | 0.85 | | 6.92 | 0.36 | 5.5% | |
| 1972 | 28.4 | 869.8 | 3.27 | | 45.40 | 48.04 | 2.54 | | 6.80 | -0.12 | -1.7% | |
| 1973 | 31.6 | 984.0 | 3.21 | | 48.50 | 51.32 | 3.28 | | 6.26 | -0.54 | -7.9% | |
| 1974 | 45.6 | 980.7 | 4.65 | | 56.90 | 60.21 | 8.89 | | 7.72 | 1.47 | 23.4% | |
| 1975 | 56.4 | 1041.0 | 5.42 | | 60.00 | 63.49 | 3.28 | | 8.53 | 0.81 | 10.5% | |
| 1976 | 63.0 | 1143.1 | 5.51 | | 62.40 | 66.03 | 2.54 | | 8.35 | -0.19 | -2.2% | |
| 1977 | 83.7 | 1260.1 | 6.64 | | 65.40 | 69.21 | 3.17 | | 9.60 | 1.25 | 15.0% | |
| 1978 | 92.5 | 1268.2 | 7.29 | | 68.30 | 72.28 | 3.07 | | 10.09 | 0.49 | 5.1% | |
| 1979 | 111.1 | 1480.9 | 7.50 | | 73.80 | 78.10 | 5.82 | | 9.61 | -0.49 | -4.8% | |
| 1980 | 143.4 | 1472.3 | 9.74 | | 84.30 | 89.21 | 11.11 | | 10.92 | 1.31 | 13.7% | |
| 1981 | 164.3 | 1554.3 | 10.57 | | 90.60 | 95.87 | 6.67 | | 11.03 | 0.11 | 1.0% | -3% |
| 1982 | 191.7 | 1674.8 | 11.45 | | 94.50 | 100.00 | 4.13 | | 11.45 | 0.42 | 3.8% | -15% |
| 1983 | 230.3 | 1850.6 | 12.44 | | 96.60 | 102.22 | 2.22 | | 12.17 | 0.73 | 6.4% | -15% |
| 1984 | 228.4 | 1816.5 | 12.57 | | 98.20 | 103.92 | 1.69 | | 12.10 | -0.07 | -0.6% | -5% |
| 1985 | 235.1 | 1944.1 | 12.09 | | 99.10 | 104.87 | 0.95 | | 11.53 | -0.57 | -4.7% | -10% |
| 1986 | 242.0 | 2045.1 | 11.83 | | 99.10 | 104.87 | 0.00 | | 11.28 | -0.25 | -2.1% | -50% |
| 1987 | 255.2 | 2191.1 | 11.65 | | 100.00 | 105.82 | 0.95 | | 11.01 | -0.28 | -2.5% | 27% |
| 1988 | 238.3 | 2063.1 | 11.55 | | 100.50 | 106.35 | 0.53 | | 10.86 | -0.15 | -1.3% | -22% |
| 1989 | 231.8 | 1983.6 | 11.69 | | 100.60 | 106.46 | 0.11 | | 10.98 | 0.12 | 1.1% | 23% |
| 1990 | 238.8 | 2053.0 | 11.63 | | 101.40 | 107.30 | 0.85 | | 10.84 | -0.14 | -1.2% | 25% |
| 1991 | 254.0 | 2185.9 | 11.62 | | 102.70 | 108.68 | 1.38 | | 10.69 | -0.15 | -1.4% | -12% |
| 1992 | 263.8 | 2311.4 | 11.41 | | 104.50 | 110.58 | 1.90 | | 10.32 | -0.37 | -3.5% | -4% |
| 1993 | 281.7 | 2486.2 | 11.33 | | 105.00 | 111.11 | 0.53 | | 10.20 | -0.12 | -1.2% | -11% |
| 1994 | 304.2 | 2671.9 | 11.39 | | 106.40 | 112.59 | 1.48 | | 10.11 | -0.09 | -0.8% | -7% |
| 1995 | 324.3 | 2869.6 | 11.30 | | 107.40 | 113.65 | 1.06 | | 9.94 | -0.17 | -1.7% | 7% |
| 1996 | 333.9 | 2984.0 | 11.19 | | 108.80 | 115.13 | 1.48 | | 9.72 | -0.22 | -2.3% | 20% |
| 1997 | 362.9 | 3302.1 | 10.99 | | 110.10 | 116.51 | 1.38 | | 9.43 | -0.29 | -2.9% | -7% |
| 1998 | 377.3 | 3392.3 | 11.12 | | 110.90 | 117.35 | 0.85 | | 9.48 | 0.04 | 0.5% | -30% |
| 1999 | 362.8 | 3578.0 | 10.14 | | 112.50 | 119.05 | 1.69 | | 8.52 | -0.96 | -10.1% | 34% |
| 2000 | 429.4 | 3801.1 | 11.30 | | 114.20 | 120.85 | 1.80 | | 9.35 | 0.83 | 9.8% | 58% |
| 2001 | 460.0 | 3933.9 | 11.69 | | 114.50 | 121.16 | 0.32 | | 9.65 | 0.30 | 3.2% | -14% |
| 2002 | 450.4 | 4113.1 | 10.95 | | 115.70 | 122.43 | 1.27 | | 8.94 | -0.71 | -7.3% | 1% |
| 2003 | 499.3 | 4306.8 | 11.59 | | 115.80 | 122.54 | 0.11 | | 9.46 | 0.52 | 5.8% | 19% |
| 2004 | 544.3 | 4595.2 | 11.85 | | 116.30 | 123.07 | 0.53 | | 9.62 | 0.17 | 1.8% | 33% |
| 2005 | 643.3 | 4780.8 | 13.46 | | 119.70 | 126.67 | 3.60 | | 10.62 | 1.00 | 10.4% | 36% |
| 2006 | 735.9 | 4936.2 | 14.91 | | 122.70 | 129.84 | 3.17 | | 11.49 | 0.87 | 8.1% | 17% |
| 2007 | 826.5 | 5297.9 | 15.60 | | 127.90 | 135.34 | 5.50 | | 11.53 | 0.04 | 0.3% | 10% |
| 2008 | 1058.1 | 5462.1 | 19.37 | | 139.00 | 147.09 | 11.75 | | 13.17 | 1.64 | 14.3% | 38% |
| 2009 | 947.9 | 5834.9 | 16.24 | | 142.30 | 150.58 | 3.49 | | 10.79 | -2.38 | -18.1% | -39% |
| | | | | | | | | | | 1.2% | 11.9% | |



Desfase 1 año Pma



-15%

CUADRO No. 16

PRONOSTICO DE PRECIOS DE LA ENERGIA

HIPOTESIS Se considera la expectativa de precios de referencia para el crudo por el EIA-DOE como optimista,
 La proyeccion de precios Alta del crudo del EIA-DOE como insumo par la Proyeccion Pesimista.
 Para la proyeccion de precios Moderada se promedian la proyeccion de precios del crudo a la alta y
 la proyeccion de Referencia de EIA-DOE

PRECIOS DE LA ENERGÍA, SEGÚN ESCENARIOS

IMPORTED LOW -SULFUR LIGHT CRUDE OIL¹ PRICE -EIA

Crude Oil Prices (2006 dollars per barrel)

| AÑO | PROMEDIO DE PRECIOS ALTOS ESCENARIO PESIMISTA (High Price Oil) | | PROMEDIO DE PRECIOS ALTOS ESCENARIO MODERADO (High Price Oil+Reference)/2 | | PROMEDIO DE PRECIOS BAJOS ESCENARIO OPTIMISTA (Reference) | | VARIACIÓN PROMEDIO _ ESCENARIO MODERADO |
|------|--|-----------|---|-----------|---|-----------|--|
| | PRECIO | VARIACION | PRECIO | VARIACION | PRECIO | VARIACION | |
| 2003 | 33.99 | | 33.99 | | 33.99 | | |
| 2004 | 44.26 | 1.30 | 44.26 | 1.30 | 44.26 | 1.30 | |
| 2005 | 58.59 | 1.32 | 58.59 | 1.32 | 58.59 | 1.32 | |
| 2006 | 71.34 | 1.22 | 71.34 | 1.22 | 71.34 | 1.22 | |
| 2007 | 68.86 | 0.97 | 68.86 | 0.97 | 68.86 | 0.97 | |
| 2008 | 69.07 | 1.00 | 67.62 | 0.98 | 66.16 | 0.96 | 0.98 |
| 2009 | 69.89 | 1.01 | 66.38 | 0.98 | 62.87 | 0.95 | 0.98 |
| 2010 | 71.44 | 1.02 | 65.38 | 0.99 | 59.33 | 0.94 | 0.98 |
| 2011 | 73.37 | 1.03 | 64.73 | 0.99 | 56.08 | 0.95 | 0.99 |
| 2012 | 74.99 | 1.02 | 64.19 | 0.99 | 53.38 | 0.95 | 0.99 |
| 2013 | 77.09 | 1.03 | 64.35 | 1.00 | 51.60 | 0.97 | 1.00 |
| 2014 | 79.68 | 1.03 | 65.46 | 1.02 | 51.24 | 0.99 | 1.01 |
| 2015 | 82.13 | 1.03 | 66.81 | 1.02 | 51.48 | 1.00 | 1.02 |
| 2016 | 84.56 | 1.03 | 67.95 | 1.02 | 51.35 | 1.00 | 1.01 |
| 2017 | 86.41 | 1.02 | 69.42 | 1.02 | 52.44 | 1.02 | 1.02 |
| 2018 | 88.21 | 1.02 | 70.57 | 1.02 | 52.93 | 1.01 | 1.02 |
| 2019 | 90.14 | 1.02 | 71.88 | 1.02 | 53.63 | 1.01 | 1.02 |
| 2020 | 92.00 | 1.02 | 72.86 | 1.01 | 53.72 | 1.00 | 1.01 |
| 2021 | 93.17 | 1.01 | 73.80 | 1.01 | 54.43 | 1.01 | 1.01 |
| 2022 | 93.91 | 1.01 | 74.54 | 1.01 | 55.16 | 1.01 | 1.01 |
| 2023 | | | | | | | |
| 2024 | | | | | | | |

1/ Weighted average price delivered to U.S. refiners.

Annual Energy Outlook 2007 with Projections to 2008-2030

Report #: DOE/EIA-0383(2007)

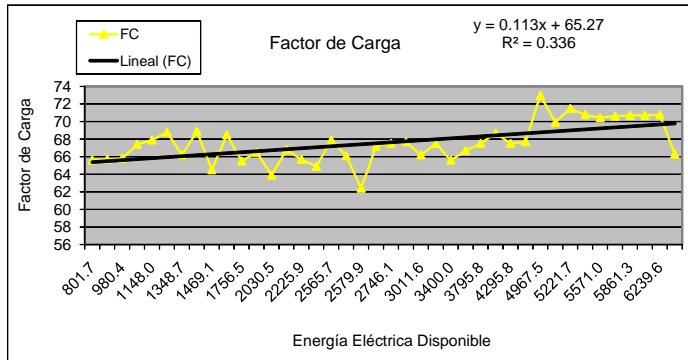
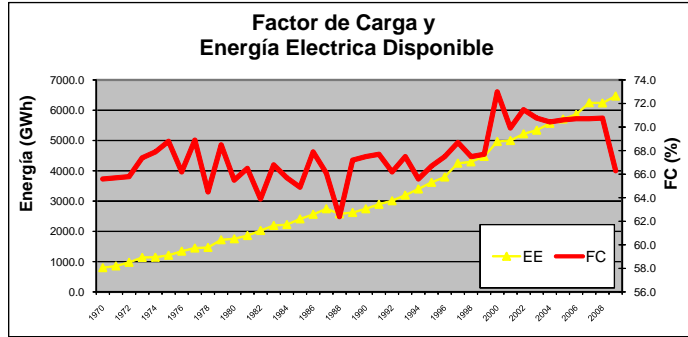
Release Date: May 2007

Next Release Date: May 2008

Table 12. Petroleum Product Prices

CUADRO No. 17
ANÁLISIS DEL FACTOR DE CARGA Y PROYECCIÓN LINEAL

| | FC | | EE | Estimado | Error | |
|------|------|-----------|----------------|----------|-------|------|
| 1970 | 65.6 | Var Anual | 801.7 | 65.3 | -0.31 | 0% |
| 1971 | 65.7 | 0.2% | 859.4 | 65.4 | -0.29 | 0% |
| 1972 | 65.8 | 0.2% | 980.4 | 65.5 | -0.27 | 0% |
| 1973 | 67.4 | 2.4% | 1139.9 | 65.7 | -1.75 | -3% |
| 1974 | 67.9 | 0.7% | 1148.0 | 65.8 | -2.13 | -3% |
| 1975 | 68.8 | 1.3% | 1214.3 | 65.9 | -2.91 | -4% |
| 1976 | 66.2 | -3.8% | 1348.7 | 66.0 | -0.19 | 0% |
| 1977 | 68.9 | 4.1% | 1450.3 | 66.1 | -2.77 | -4% |
| 1978 | 64.5 | -6.4% | 1469.1 | 66.3 | 1.75 | 3% |
| 1979 | 68.5 | 6.2% | 1724.0 | 66.4 | -2.13 | -3% |
| 1980 | 65.5 | -4.4% | 1756.5 | 66.5 | 0.99 | 2% |
| 1981 | 66.5 | 1.5% | 1863.5 | 66.6 | 0.11 | 0% |
| 1982 | 63.9 | -3.9% | 2030.5 | 66.7 | 2.83 | 4% |
| 1983 | 66.8 | 4.5% | 2193.5 | 66.9 | 0.05 | 0% |
| 1984 | 65.7 | -1.6% | 2225.9 | 67.0 | 1.27 | 2% |
| 1985 | 64.9 | -1.2% | 2412.9 | 67.1 | 2.19 | 3% |
| 1986 | 67.9 | 4.6% | 2565.7 | 67.2 | -0.69 | -1% |
| 1987 | 66.1 | -2.7% | 2748.3 | 67.3 | 1.23 | 2% |
| 1988 | 62.4 | -5.6% | 2579.9 | 67.5 | 5.05 | 8% |
| 1989 | 67.2 | 7.7% | 2624.7 | 67.6 | 0.37 | 1% |
| 1990 | 67.5 | 0.4% | 2746.1 | 67.7 | 0.19 | 0% |
| 1991 | 67.7 | 0.3% | 2896.6 | 67.8 | 0.11 | 0% |
| 1992 | 66.2 | -2.2% | 3011.6 | 67.9 | 1.73 | 3% |
| 1993 | 67.5 | 2.0% | 3199.1 | 68.1 | 0.55 | 1% |
| 1994 | 65.6 | -2.8% | 3400.0 | 68.2 | 2.57 | 4% |
| 1995 | 66.7 | 1.7% | 3619.4 | 68.3 | 1.59 | 2% |
| 1996 | 67.5 | 1.2% | 3795.8 | 68.4 | 0.91 | 1% |
| 1997 | 68.7 | 1.8% | 4254.4 | 68.5 | -0.17 | 0% |
| 1998 | 67.5 | -1.7% | 4295.8 | 68.7 | 1.15 | 2% |
| 1999 | 67.7 | 0.3% | 4474.5 | 68.8 | 1.07 | 2% |
| 2000 | 73.0 | 7.8% | 4967.5 | 68.9 | -4.10 | -6% |
| 2001 | 69.9 | -4.2% | 4999.9 | 69.0 | -0.91 | -1% |
| 2002 | 71.5 | 2.2% | 5221.7 | 69.1 | -2.35 | -3% |
| 2003 | 70.8 | -1.0% | 5342.6 | 69.3 | -1.51 | -2% |
| 2004 | 70.4 | -0.5% | 5571.0 | 69.4 | -1.06 | -2% |
| 2005 | 70.6 | 0.3% | 5711.0 | 69.5 | -1.12 | -2% |
| 2006 | 70.7 | 0.1% | 5861.3 | 69.6 | -1.09 | -2% |
| 2007 | 70.7 | 0.0% | 6246.3 | 69.7 | -0.98 | -1% |
| 2008 | 70.8 | -0.1% | 6239.6 | 70.0 | -0.71 | -1% |
| 2009 | 66.3 | -7.0% | 6468.8 | 70.2 | 4.36 | 7% |
| | | 0.3% | Promedios----> | | -0.03 | 0.0% |



Estimados: Pronóstico Lineal

| | | |
|------|------|------|
| 2010 | 69.9 | 70.7 |
| 2011 | 70.0 | 70.7 |
| 2012 | 70.1 | 70.8 |
| 2013 | 70.2 | 70.8 |
| 2014 | 70.4 | 70.8 |
| 2015 | 70.5 | 70.9 |
| 2016 | 70.6 | 70.9 |
| 2017 | 70.7 | 71.0 |
| 2018 | 70.8 | 71.0 |
| 2019 | 70.9 | 71.1 |
| 2020 | 71.0 | 71.1 |
| 2021 | 71.1 | 71.2 |
| 2022 | 71.3 | 71.2 |
| 2023 | 71.4 | 71.3 |
| 2024 | 71.5 | 71.3 |

<-valores adoptados en el modelo por mecanismo de cálculo de variación anual

CUADRO N°. 18

PREMISAS DE PROYECCIÓN DE PÉRDIDAS DE ENERGÍA

| AÑO | Ventas de Energía | PERDIDAS | | |
|------|-------------------|----------|-------------|--------------|
| | | Total | Transmisión | Distribución |
| 2001 | 3,839 | 1,066 | 129.19 | 936.81 |
| 2002 | 4,015 | 1,109 | 186.80 | 921.80 |
| 2003 | 4,201 | 1,036 | 150.86 | 884.94 |
| 2004 | 4,476 | 976 | 184.22 | 791.58 |
| 2005 | 4,658 | 930 | 155.52 | 774.68 |
| 2006 | 4,934 | 927 | 114.90 | 812.40 |
| 2007 | 5,298 | 911 | 121.30 | 789.70 |
| 2008 | 5,462 | 778 | 149.70 | 627.80 |
| 2009 | 5,835 | 795 | 138.90 | 655.60 |

| Estructura respecto a Energía Disponible | | | |
|--|---------|----------|-------|
| | Transm. | Distrib. | |
| | 5,000 | 2.6% | 18.7% |
| | 5,222 | 3.6% | 17.7% |
| | 5,343 | 2.8% | 16.6% |
| | 5,571 | 3.3% | 14.2% |
| | 5,711 | 2.7% | 13.6% |
| | 5,861 | 2.0% | 13.9% |
| | 6,209 | 2.0% | 12.7% |
| | 6,240 | 2.4% | 10.1% |
| | 6,516 | 2.1% | 10.1% |

PORENTAJE DE PÉRDIDAS RESPECTO A VENTAS TOTALES (Relación requerida por el modelo)

| Año | Total | Transmisión | Distribución | Técnicas | No Técnicas |
|-----------------|--------|-------------|--------------|----------|-------------|
| 2001 | 27.77% | 3.4% | 24.40% | 5.0% | 19.4% |
| 2002 | 27.61% | 4.7% | 22.96% | | 18.0% |
| 2003 | 24.66% | 3.6% | 21.07% | | 16.1% |
| 2004 | 21.80% | 4.1% | 17.69% | | 12.7% |
| 2005 | 19.97% | 3.3% | 16.63% | | 11.6% |
| 2006 | 18.79% | 2.3% | 16.47% | | 11.5% |
| 2007 | 17.20% | 2.3% | 14.91% | | 9.9% |
| 2008 | 14.23% | 2.7% | 11.49% | | 6.5% |
| 2009 | 13.62% | 2.4% | 11.24% | | 6.2% |
| PROMEDIO | | | | | |
| 2001-2009 | 20.63% | 3.20% | 17.43% | | 12.4% |
| 2001-2005 | 24.4% | 3.8% | 20.5% | #DIV/0! | 15.5% |
| 2006-2009 | 16.0% | 2.4% | 13.5% | | 8.5% |

PREMISAS PROYECCION ESCENARIO MODERADO

| Transmisión aumenta % hasta no superar el | 4.0% | | | | |
|--|--------|-------------|--------------|----------|-------------|
| Técnicas de Distribución permanecen en | 5.0% | | | | |
| No técnicas de Distribución disminuyen hasta | 6.2% | | | | |
| | Total | Transmisión | Distribución | Técnicas | No Técnicas |
| 2008 | 14.23% | 2.7% | | 5.0% | 6.5% |
| 2009 | 13.62% | 2.4% | | 5.0% | 6.2% |
| 2010 | 14.5% | 3.3% | | 5.0% | 6.2% |
| 2011 | 15.2% | 4.0% | | 5.0% | 6.2% |
| 2012 | 15.7% | 4.5% | | 5.0% | 6.2% |
| 2013 | 15.7% | 4.5% | | 5.0% | 6.2% |
| 2024 | 15.14% | 3.9% | | 5.0% | 6.2% |
| Variación periodo completo | | 1.5% | | 0.0% | -0.3% |
| Variación Anual Promedio | 0.71% | 2.23% | | 0.00% | -0.25% |

PREMISAS PROYECCION ESCENARIO OPTIMISTA

| Transmisión aumenta % hasta no superar el | 4.0% | | | | |
|--|--------|-------------|--------------|----------|-------------|
| Técnicas de Distribución permanecen en | 5.0% | | | | |
| No técnicas de Distribución disminuyen hasta | 5.0% | | | | |
| | Total | Transmisión | Distribución | Técnicas | No Técnicas |
| 2008 | 14.23% | 2.7% | | 5.0% | 6.5% |
| 2009 | 13.62% | 2.4% | | 5.0% | 6.2% |
| 2010 | 14.3% | 3.3% | | 5.0% | 6.0% |
| 2011 | 14.8% | 4.0% | | 5.0% | 5.8% |
| 2012 | 15.1% | 4.5% | | 5.0% | 5.6% |
| 2013 | 15.0% | 4.5% | | 5.0% | 5.5% |
| 2024 | 14.00% | 4.0% | | 5.0% | 5.0% |
| Variación periodo completo | | 1.6% | | 0.0% | -0.3% |
| Variación Anual Promedio | 0.19% | 3.52% | | 0.00% | -1.46% |

PREMISAS PROYECCION ESCENARIO PESIMISTA

| Transmisión aumenta % hasta no superar el | 4.5% | | | | |
|--|--------|-------------|--------------|----------|-------------|
| Técnicas de Distribución permanecen en | 5.0% | | | | |
| No técnicas de Distribución disminuyen hasta | 5.5% | | | | |
| | Total | Transmisión | Distribución | Técnicas | No Técnicas |
| 2008 | 13.98% | 2.7% | | 5.0% | 6.2% |
| 2009 | 13.58% | 2.4% | | 5.0% | 6.2% |
| 2010 | 14.5% | 3.3% | | 5.0% | 6.2% |
| 2011 | 15.4% | 4.0% | | 5.0% | 6.4% |
| 2012 | 16.1% | 4.5% | | 5.0% | 6.6% |
| 2013 | 16.3% | 4.5% | | 5.0% | 6.8% |
| 2024 | 16.50% | 4.5% | | 5.0% | 7.0% |
| Variación periodo completo | | 2.1% | | 0.0% | 7.0% |
| Variación Anual Promedio | 1.31% | 4.34% | | 0.00% | 0.81% |

CUADRO No. 19

DEMANDA DE LA PROVINCIA DE BOCAS DEL TORO (CARGA INTEGRADA AL SIN) Años 2009 -2024

| AÑO | BOFCO | | PTP SUBESTACION CAÑAZAS | | ESC. MODERADO (a) | | ESC. OPTIMISTA (b) | | ESC. PESIMISTA (c) | |
|------------|------------------------|-----------|-----------------------------|-----------|-------------------|-----------|-----------------------------|-----------|------------------------------|-----------|
| | PLAN EGESA-GG-230-2009 | | PLAN REV-CND-2009-08-12-001 | | Σ BOFCO + PTP | | Ajuste BOFCO + 5% y PTP +15 | | Ajuste BOFCO - 5% y PTP -10% | |
| | GWh | TASAS (%) | GWh | TASAS (%) | GWh | TASAS (%) | GWh | TASAS (%) | GWh | TASAS (%) |
| 2009 | 19.48 | | 2.66 | | 22.1 | | 22.1 | | 22.1 | |
| 2010 | 70.68 | 262.81 | 50.21 | 1,787.03 | 120.9 | 445.98 | 120.9 | 445.98 | 106.8 | 382.13 |
| 2011 | 71.91 | 1.73 | 85.29 | 69.87 | 157.2 | 30.03 | 173.6 | 43.59 | 157.2 | 47.25 |
| 2012 | 73.26 | 1.89 | 115.16 | 35.02 | 188.4 | 19.86 | 209.4 | 20.61 | 173.2 | 10.21 |
| 2013 | 74.64 | 1.89 | 115.16 | - | 189.8 | 0.73 | 210.8 | 0.69 | 174.6 | 0.76 |
| 2014 | 76.05 | 1.89 | 115.16 | 0.00 | 191.2 | 0.74 | 212.3 | 0.70 | 175.9 | 0.77 |
| 2015 | 77.49 | 1.89 | 173.59 | 50.74 | 251.1 | 31.31 | 281.0 | 32.36 | 229.8 | 30.67 |
| 2016 | 78.95 | 1.89 | 174.06 | 0.27 | 253.0 | 0.77 | 283.1 | 0.74 | 231.7 | 0.79 |
| 2017 | 80.44 | 1.89 | 173.59 | -0.27 | 254.0 | 0.40 | 284.1 | 0.36 | 232.6 | 0.43 |
| 2018 | 81.96 | 1.89 | 57.67 | -66.78 | 139.6 | -45.03 | 152.4 | -46.36 | 129.8 | -44.22 |
| 2019 | 83.49 | 1.87 | 58.67 | 1.75 | 142.2 | 1.82 | 155.1 | 1.81 | 132.1 | 1.82 |
| 2020 | 85.05 | 1.87 | 59.70 | 1.75 | 144.8 | 1.82 | 158.0 | 1.81 | 134.5 | 1.82 |
| 2021 | 86.64 | 1.87 | 60.74 | 1.75 | 147.4 | 1.82 | 160.8 | 1.81 | 137.0 | 1.82 |
| 2022 | 88.26 | 1.87 | 61.80 | 1.75 | 150.1 | 1.82 | 163.7 | 1.81 | 139.5 | 1.82 |
| 2023 | 89.91 | 1.87 | 62.88 | 1.75 | 152.8 | 1.82 | 166.7 | 1.81 | 142.0 | 1.82 |
| 2024 | 91.58 | 1.87 | 63.98 | 1.75 | 155.6 | 1.82 | 169.7 | 1.82 | 144.6 | 1.82 |
| Tasa Anual | | 1.87% | | 1.75% | 28.7% | 1.82% | 40.4% | 2.45% | 35.4% | 2.19% |

1.9%

1.7%

(a) Corresponde a la suma de la demanda previstas por BOFCO (Sept. 2009) Y PTP(Julio 2009)en el Informe Indicativo de Demanda 2009-2018, del CND. Considera contrucción del circuito 34-55 para el mes de Diciembre presente año. Del año 2019 al 2024 se escalan con la tasas de crecimiento anual del periodo 2009-2018.

(b) Se considera un crecimiento adicional de 5% para el consumo de BOFCO y de 15% adicional a PTP, a efecto de una expansión económica de la región Bocatoreña y de la reactivación del comercio mundial favoreciendo la actividad de trasvase del crudo a través de las facilidades de PTP, a partir de 2011.

(c) Se considera en primer lugar el atraso de un año del nuevo circuito de S/E Changuinola -BOFCO, por lo cual solo se puede transmitir un 80% de la energía pronosticada por BOFCO en el 2010. A partir del año 2012, se considera una contracción de 5% en el consumo pronosticado por BOFCO y de 10 % en la demanda prevista para PTP Cañazas, consecuente con el retroceso en la economía global .

CUADRO No. 20
DEMANDA CONSOLIDADA DEL SEGMENTO BLOQUE (CARGA INTEGRADA AL SIN)
Años 2010 -2024

| AÑO | ESC. MODERADO (a) | | ESC. OPTIMISTA (b) | | ESC. PESIMISTA (c) | |
|------------|-------------------|-----------|--------------------|-----------|--------------------|-----------|
| | GWh | TASAS (%) | GWh | TASAS (%) | GWh | TASAS (%) |
| 2009 | 22.1 | | 22.1 | | 22.1 | |
| 2010 | 120.9 | 445.98 | 120.9 | 445.98 | 106.8 | 382.13 |
| 2011 | 157.2 | 30.03 | 173.6 | 43.59 | 157.2 | 47.25 |
| 2012 | 188.4 | 19.86 | 209.4 | 20.61 | 173.2 | 10.21 |
| 2013 | 246.5 | 30.85 | 267.6 | 27.80 | 231.3 | 33.52 |
| 2014 | 296.4 | 20.21 | 317.4 | 18.65 | 281.0 | 21.51 |
| 2015 | 362.0 | 22.16 | 392.0 | 23.47 | 340.8 | 21.27 |
| 2016 | 369.9 | 2.17 | 399.9 | 2.04 | 348.5 | 2.27 |
| 2017 | 376.7 | 1.84 | 406.8 | 1.71 | 355.3 | 1.95 |
| 2018 | 301.2 | -20.04 | 314.0 | -22.82 | 291.3 | -18.01 |
| 2019 | 309.7 | 2.81 | 322.6 | 2.76 | 299.6 | 2.84 |
| 2020 | 321.0 | 3.65 | 334.2 | 3.58 | 310.7 | 3.72 |
| 2021 | 336.8 | 4.93 | 350.2 | 4.80 | 326.4 | 5.03 |
| 2022 | 345.3 | 2.53 | 359.0 | 2.50 | 334.7 | 2.56 |
| 2023 | 353.9 | 2.48 | 367.8 | 2.46 | 343.1 | 2.51 |
| 2024 | 362.5 | 2.44 | 376.7 | 2.42 | 351.6 | 2.46 |
| Tasa Anual | 199.9% | 8.16% | 211.6% | 8.46% | 229.3% | 8.89% |

(a) Corresponde a la suma de la demanda previstas en el Escenario Moderado de la Provincia de Bocas del Toro mas los consumos previstos para los megaproyectos de infraestructura de la Ciudad de Panama hasta el año 2024

(b) Corresponde a la suma de la demanda previstas en el Escenario Optimista de la Provincia de Bocas del Toro mas los consumos previstos para los megaproyectos de infraestructura de la Ciudad de Panama hasta el año 2024

(c) Corresponde a la suma de la demanda previstas en el Escenario Pesimista de la Provincia de Bocas del Toro mas los consumos previstos para los megaproyectos de infraestructura de la Ciudad de Panama hasta el año 2024

CUADRO No. 21
RESUMEN DE PRONOSTICOS SEGÚN ESCENARIOS

RESUMEN DE LOS PRONOSTICOS DE DEMANDA
GENERACION Y POTENCIA
SEGÚN ESCENARIOS
AÑOS 2010 - 2024

| AÑOS | ENERGIA TOTAL (GWH) | | | DEMANDA (MW) | | |
|------|---------------------|-----------|-----------|--------------|-----------|-----------|
| | MODERADO | OPTIMISTA | PESIMISTA | MODERADO | OPTIMISTA | PESIMISTA |
| | EET- MOD | EET- OPT | EET- PES | DMG- MOD | DMG- OPT | DMG- PES |
| 2009 | 6,629.4 | 6,629.4 | 6,629.4 | 1,154.0 | 1,154.0 | 1,154.0 |
| 2010 | 7,076.9 | 7,065.7 | 7,056.6 | 1,142.6 | 1,140.8 | 1,139.3 |
| 2011 | 7,495.3 | 7,513.7 | 7,471.9 | 1,210.1 | 1,213.1 | 1,206.4 |
| 2012 | 7,931.7 | 7,969.6 | 7,873.9 | 1,279.8 | 1,285.9 | 1,270.4 |
| 2013 | 8,428.3 | 8,479.7 | 8,372.6 | 1,359.0 | 1,367.3 | 1,350.0 |
| 2014 | 8,968.4 | 9,027.9 | 8,914.7 | 1,445.2 | 1,454.8 | 1,436.5 |
| 2015 | 9,583.5 | 9,667.6 | 9,517.1 | 1,543.3 | 1,556.9 | 1,532.6 |
| 2016 | 10,153.7 | 10,260.6 | 10,077.0 | 1,634.1 | 1,651.3 | 1,621.7 |
| 2017 | 10,750.5 | 10,871.4 | 10,670.2 | 1,729.0 | 1,748.4 | 1,716.1 |
| 2018 | 11,308.6 | 11,427.1 | 11,236.4 | 1,817.6 | 1,836.6 | 1,806.0 |
| 2019 | 11,982.3 | 12,117.2 | 11,907.1 | 1,924.6 | 1,946.3 | 1,912.5 |
| 2020 | 12,692.1 | 12,843.1 | 12,614.1 | 2,037.3 | 2,061.6 | 2,024.8 |
| 2021 | 13,412.5 | 13,581.2 | 13,332.7 | 2,151.6 | 2,178.6 | 2,138.8 |
| 2022 | 14,147.3 | 14,342.7 | 14,066.2 | 2,268.0 | 2,299.3 | 2,255.0 |
| 2023 | 14,915.1 | 15,144.0 | 14,832.4 | 2,389.5 | 2,426.2 | 2,376.3 |
| 2024 | 15,741.4 | 16,002.9 | 15,657.3 | 2,520.3 | 2,562.2 | 2,506.8 |

INCREMENTOS PROMEDIOS ANUALES

| | | | | | | |
|--------------------------------|-------|-------|-------|-------|-------|-------|
| Analisis (2010-2024) | 607.5 | 624.9 | 601.9 | 91.1 | 93.9 | 90.2 |
| Corto Plazo (2010-2013) | 449.7 | 462.6 | 435.8 | 51.3 | 53.3 | 49.0 |
| Largo Plazo (2014-2024) | 664.8 | 683.9 | 662.3 | 105.6 | 108.6 | 105.2 |

TASAS DE CRECIMIENTO PROMEDIO ANUAL

| | | | | | | |
|--------------------------------|-------|-------|-------|-------|-------|-------|
| Analisis (2010-2024) | 5.93% | 6.05% | 5.90% | 5.35% | 5.46% | 5.31% |
| Corto Plazo (2010-2013) | 6.19% | 6.35% | 6.01% | 4.17% | 4.33% | 4.00% |
| Largo Plazo (2014-2024) | 5.84% | 5.94% | 5.86% | 5.78% | 5.88% | 5.79% |

CUADRO No. 22
PARTICIPACION SECTORIAL EN EL PRONOSTICO DE ENERGIA ELECTRICA DE PANAMA
ESCENARIO MEDIO

AÑOS 2010 -2024
ESCENARIO MEDIO

| AÑO | GWHRES | GWHCOM | GWHIND | GWHOFI | GWHALU | GWHAUT | GWHBLQ | GWHOTR | GWHPER | GWH | D%GWH | MW |
|------|-------------|-----------|------------|---------|----------------|-------------|--------|--------|----------|---------|-------|-------|
| | Residencial | Comercial | Industrial | Oficial | lumbrao public | Autoconsumo | Bloque | Otros | Perdidas | Energia | | Carga |
| 1970 | 0.261 | 0.278 | 0.120 | 0.087 | 0.017 | 0.011 | 0.104 | 0.009 | 0.114 | 1.000 | | |
| 1971 | 0.296 | 0.286 | 0.129 | 0.092 | 0.019 | 0.011 | 0.060 | 0.009 | 0.098 | 1.000 | | 7.0% |
| 1972 | 0.307 | 0.279 | 0.117 | 0.106 | 0.019 | 0.009 | 0.040 | 0.010 | 0.113 | 1.000 | | 13.9% |
| 1973 | 0.296 | 0.270 | 0.113 | 0.094 | 0.016 | 0.008 | 0.061 | 0.006 | 0.137 | 1.000 | | 3.3% |
| 1974 | 0.299 | 0.297 | 0.109 | 0.105 | 0.017 | 0.003 | 0.016 | 0.010 | 0.146 | 1.000 | | 7.2% |
| 1975 | 0.298 | 0.290 | 0.109 | 0.117 | 0.016 | 0.003 | 0.012 | 0.012 | 0.143 | 1.000 | | 4.4% |
| 1976 | 0.292 | 0.270 | 0.096 | 0.132 | 0.015 | 0.003 | 0.029 | 0.011 | 0.152 | 1.000 | | 15.8% |
| 1977 | 0.278 | 0.273 | 0.088 | 0.135 | 0.016 | 0.004 | 0.065 | 0.010 | 0.131 | 1.000 | | 3.6% |
| 1978 | 0.281 | 0.285 | 0.097 | 0.152 | 0.016 | 0.005 | 0.016 | 0.011 | 0.137 | 1.000 | | 7.0% |
| 1979 | 0.258 | 0.258 | 0.094 | 0.145 | 0.015 | 0.005 | 0.074 | 0.009 | 0.141 | 1.000 | | 13.2% |
| 1980 | 0.260 | 0.273 | 0.105 | 0.160 | 0.018 | 0.005 | 0.009 | 0.008 | 0.162 | 1.000 | | 7.0% |
| 1981 | 0.255 | 0.267 | 0.101 | 0.154 | 0.018 | 0.006 | 0.025 | 0.008 | 0.166 | 1.000 | | 4.7% |
| 1982 | 0.246 | 0.262 | 0.107 | 0.153 | 0.017 | 0.006 | 0.025 | 0.008 | 0.175 | 1.000 | | 13.2% |
| 1983 | 0.241 | 0.259 | 0.100 | 0.154 | 0.017 | 0.006 | 0.061 | 0.008 | 0.156 | 1.000 | | 3.5% |
| 1984 | 0.234 | 0.258 | 0.103 | 0.147 | 0.017 | 0.006 | 0.044 | 0.008 | 0.184 | 1.000 | | 2.9% |
| 1985 | 0.232 | 0.253 | 0.105 | 0.145 | 0.016 | 0.005 | 0.043 | 0.007 | 0.194 | 1.000 | | 9.9% |
| 1986 | 0.237 | 0.252 | 0.104 | 0.141 | 0.015 | 0.005 | 0.036 | 0.006 | 0.203 | 1.000 | | 5.2% |
| 1987 | 0.241 | 0.247 | 0.111 | 0.138 | 0.015 | 0.005 | 0.033 | 0.007 | 0.203 | 1.000 | | 6.5% |
| 1988 | 0.254 | 0.235 | 0.096 | 0.141 | 0.016 | 0.005 | 0.045 | 0.008 | 0.200 | 1.000 | | -0.8% |
| 1989 | 0.234 | 0.233 | 0.097 | 0.136 | 0.016 | 0.005 | 0.027 | 0.008 | 0.244 | 1.000 | | -5.2% |
| 1990 | 0.232 | 0.231 | 0.101 | 0.129 | 0.016 | 0.005 | 0.026 | 0.008 | 0.252 | 1.000 | | 4.1% |
| 1991 | 0.232 | 0.243 | 0.111 | 0.121 | 0.016 | 0.004 | 0.020 | 0.008 | 0.245 | 1.000 | | 5.2% |
| 1992 | 0.238 | 0.250 | 0.122 | 0.122 | 0.015 | 0.004 | 0.009 | 0.007 | 0.233 | 1.000 | | 6.0% |
| 1993 | 0.234 | 0.262 | 0.128 | 0.123 | 0.014 | 0.004 | 0.005 | 0.006 | 0.223 | 1.000 | | 4.5% |
| 1994 | 0.232 | 0.269 | 0.126 | 0.122 | 0.013 | 0.004 | 0.014 | 0.006 | 0.214 | 1.000 | | 9.3% |
| 1995 | 0.234 | 0.277 | 0.127 | 0.128 | 0.015 | 0.004 | 0.004 | 0.005 | 0.207 | 1.000 | | 4.7% |
| 1996 | 0.227 | 0.274 | 0.123 | 0.129 | 0.016 | 0.004 | 0.007 | 0.005 | 0.214 | 1.000 | | 3.3% |
| 1997 | 0.220 | 0.278 | 0.111 | 0.119 | 0.015 | 0.006 | 0.023 | 0.004 | 0.224 | 1.000 | | 10.4% |
| 1998 | 0.234 | 0.312 | 0.114 | 0.111 | 0.015 | 0.004 | 0.000 | 0.000 | 0.210 | 1.000 | | 2.8% |
| 1999 | 0.233 | 0.324 | 0.117 | 0.109 | 0.015 | 0.002 | 0.000 | 0.000 | 0.200 | 1.000 | | 3.9% |
| 2000 | 0.225 | 0.316 | 0.102 | 0.109 | 0.011 | 0.002 | 0.000 | 0.000 | 0.235 | 1.000 | | 3.0% |
| 2001 | 0.232 | 0.324 | 0.096 | 0.116 | 0.016 | 0.002 | 0.000 | 0.001 | 0.213 | 1.000 | | 8.0% |
| 2002 | 0.241 | 0.332 | 0.084 | 0.111 | 0.015 | 0.002 | 0.000 | 0.002 | 0.212 | 1.000 | | 2.2% |
| 2003 | 0.251 | 0.365 | 0.060 | 0.110 | 0.018 | 0.002 | 0.000 | 0.001 | 0.194 | 1.000 | | 3.0% |
| 2004 | 0.258 | 0.371 | 0.060 | 0.114 | 0.019 | 0.001 | 0.000 | 0.001 | 0.175 | 1.000 | | 4.8% |
| 2005 | 0.262 | 0.382 | 0.060 | 0.112 | 0.019 | 0.001 | 0.000 | 0.001 | 0.163 | 1.000 | | 2.3% |
| 2006 | 0.262 | 0.364 | 0.084 | 0.112 | 0.020 | 0.000 | 0.000 | 0.001 | 0.158 | 1.000 | | 2.6% |
| 2007 | 0.262 | 0.377 | 0.082 | 0.112 | 0.019 | 0.000 | 0.000 | 0.001 | 0.147 | 1.000 | | 5.4% |
| 2008 | 0.264 | 0.396 | 0.081 | 0.112 | 0.020 | 0.001 | 0.000 | 0.002 | 0.125 | 1.000 | | 3.9% |
| 2009 | 0.280 | 0.380 | 0.083 | 0.111 | 0.020 | 0.001 | 0.003 | 0.001 | 0.120 | 1.000 | | 8.4% |
| 2010 | 0.273 | 0.381 | 0.080 | 0.109 | 0.020 | 0.001 | 0.017 | 0.001 | 0.117 | 1.000 | | -1.0% |
| 2011 | 0.267 | 0.386 | 0.079 | 0.109 | 0.020 | 0.001 | 0.021 | 0.001 | 0.116 | 1.000 | | 5.9% |
| 2012 | 0.262 | 0.392 | 0.076 | 0.109 | 0.020 | 0.001 | 0.024 | 0.001 | 0.115 | 1.000 | | 5.8% |
| 2013 | 0.255 | 0.397 | 0.073 | 0.108 | 0.020 | 0.001 | 0.029 | 0.001 | 0.114 | 1.000 | | 6.2% |
| 2014 | 0.249 | 0.403 | 0.072 | 0.108 | 0.020 | 0.001 | 0.033 | 0.001 | 0.113 | 1.000 | | 6.3% |
| 2015 | 0.241 | 0.407 | 0.074 | 0.107 | 0.020 | 0.001 | 0.038 | 0.001 | 0.112 | 1.000 | | 6.8% |
| 2016 | 0.235 | 0.414 | 0.074 | 0.108 | 0.020 | 0.001 | 0.036 | 0.001 | 0.111 | 1.000 | | 5.9% |
| 2017 | 0.229 | 0.421 | 0.075 | 0.108 | 0.020 | 0.001 | 0.035 | 0.001 | 0.111 | 1.000 | | 5.8% |
| 2018 | 0.224 | 0.431 | 0.076 | 0.109 | 0.020 | 0.001 | 0.027 | 0.001 | 0.111 | 1.000 | | 5.1% |
| 2019 | 0.218 | 0.438 | 0.076 | 0.109 | 0.020 | 0.001 | 0.026 | 0.001 | 0.111 | 1.000 | | 5.9% |
| 2020 | 0.212 | 0.444 | 0.077 | 0.109 | 0.020 | 0.001 | 0.025 | 0.001 | 0.110 | 1.000 | | 5.9% |
| 2021 | 0.207 | 0.450 | 0.077 | 0.109 | 0.020 | 0.001 | 0.025 | 0.001 | 0.110 | 1.000 | | 5.6% |
| 2022 | 0.202 | 0.457 | 0.077 | 0.109 | 0.020 | 0.001 | 0.024 | 0.001 | 0.109 | 1.000 | | 5.4% |
| 2023 | 0.197 | 0.463 | 0.076 | 0.109 | 0.020 | 0.001 | 0.024 | 0.001 | 0.108 | 1.000 | | 5.4% |
| 2024 | 0.192 | 0.469 | 0.076 | 0.109 | 0.020 | 0.001 | 0.023 | 0.001 | 0.108 | 1.000 | | 5.5% |

CUADRO No. 23
PARTICIPACION SECTORIAL EN EL PRONOSTICO DE ENERGIA ELECTRICA DE PANAMA
ESCENARIO ALTO

AÑOS 2010 -2024
ESCENARIO ALTO

| AÑO | GWHRES | GWHCOM | GWHIND | GWHOFI | GWHALU | GWHAUT | GWHBLQ | GWHOTR | GWHPER | GWH | D%GWH | MW |
|------|-------------|-----------|------------|---------|--------------|-------------|--------|--------|----------|---------|-------|-------|
| | Residencial | Comercial | Industrial | Oficial | Alumbrao pub | Autoconsumo | Bloque | Otros | Perdidas | Energia | | Carga |
| 1970 | 0.261 | 0.278 | 0.120 | 0.087 | 0.017 | 0.011 | 0.104 | 0.009 | 0.114 | 1.000 | | |
| 1971 | 0.296 | 0.286 | 0.129 | 0.092 | 0.019 | 0.011 | 0.060 | 0.009 | 0.098 | 1.000 | | 7.0% |
| 1972 | 0.307 | 0.279 | 0.117 | 0.106 | 0.019 | 0.009 | 0.040 | 0.010 | 0.113 | 1.000 | | 13.9% |
| 1973 | 0.296 | 0.270 | 0.113 | 0.094 | 0.016 | 0.008 | 0.061 | 0.006 | 0.137 | 1.000 | | 3.3% |
| 1974 | 0.299 | 0.297 | 0.109 | 0.105 | 0.017 | 0.003 | 0.016 | 0.010 | 0.146 | 1.000 | | 7.2% |
| 1975 | 0.298 | 0.290 | 0.109 | 0.117 | 0.016 | 0.003 | 0.012 | 0.012 | 0.143 | 1.000 | | 4.4% |
| 1976 | 0.292 | 0.270 | 0.096 | 0.132 | 0.015 | 0.003 | 0.029 | 0.011 | 0.152 | 1.000 | | 15.8% |
| 1977 | 0.278 | 0.273 | 0.088 | 0.135 | 0.016 | 0.004 | 0.065 | 0.010 | 0.131 | 1.000 | | 3.6% |
| 1978 | 0.281 | 0.285 | 0.097 | 0.152 | 0.016 | 0.005 | 0.016 | 0.011 | 0.137 | 1.000 | | 7.0% |
| 1979 | 0.258 | 0.258 | 0.094 | 0.145 | 0.015 | 0.005 | 0.074 | 0.009 | 0.141 | 1.000 | | 13.2% |
| 1980 | 0.260 | 0.273 | 0.105 | 0.160 | 0.018 | 0.005 | 0.009 | 0.008 | 0.162 | 1.000 | | 7.0% |
| 1981 | 0.255 | 0.267 | 0.101 | 0.154 | 0.018 | 0.006 | 0.025 | 0.008 | 0.166 | 1.000 | | 4.7% |
| 1982 | 0.246 | 0.262 | 0.107 | 0.153 | 0.017 | 0.006 | 0.025 | 0.008 | 0.175 | 1.000 | | 13.2% |
| 1983 | 0.241 | 0.259 | 0.100 | 0.154 | 0.017 | 0.006 | 0.061 | 0.008 | 0.156 | 1.000 | | 3.5% |
| 1984 | 0.234 | 0.258 | 0.103 | 0.147 | 0.017 | 0.006 | 0.044 | 0.008 | 0.184 | 1.000 | | 2.9% |
| 1985 | 0.232 | 0.253 | 0.105 | 0.145 | 0.016 | 0.005 | 0.043 | 0.007 | 0.194 | 1.000 | | 9.9% |
| 1986 | 0.237 | 0.252 | 0.104 | 0.141 | 0.015 | 0.005 | 0.036 | 0.006 | 0.203 | 1.000 | | 5.2% |
| 1987 | 0.241 | 0.247 | 0.111 | 0.138 | 0.015 | 0.005 | 0.033 | 0.007 | 0.203 | 1.000 | | 6.5% |
| 1988 | 0.254 | 0.235 | 0.096 | 0.141 | 0.016 | 0.005 | 0.045 | 0.008 | 0.200 | 1.000 | | -0.8% |
| 1989 | 0.234 | 0.233 | 0.097 | 0.136 | 0.016 | 0.005 | 0.027 | 0.008 | 0.244 | 1.000 | | -5.2% |
| 1990 | 0.232 | 0.231 | 0.101 | 0.129 | 0.016 | 0.005 | 0.026 | 0.008 | 0.252 | 1.000 | | 4.1% |
| 1991 | 0.232 | 0.243 | 0.111 | 0.121 | 0.016 | 0.004 | 0.020 | 0.008 | 0.245 | 1.000 | | 5.2% |
| 1992 | 0.238 | 0.250 | 0.122 | 0.122 | 0.015 | 0.004 | 0.009 | 0.007 | 0.233 | 1.000 | | 6.0% |
| 1993 | 0.234 | 0.262 | 0.128 | 0.123 | 0.014 | 0.004 | 0.005 | 0.006 | 0.223 | 1.000 | | 4.5% |
| 1994 | 0.232 | 0.269 | 0.126 | 0.122 | 0.013 | 0.004 | 0.014 | 0.006 | 0.214 | 1.000 | | 9.3% |
| 1995 | 0.234 | 0.277 | 0.127 | 0.128 | 0.015 | 0.004 | 0.004 | 0.005 | 0.207 | 1.000 | | 4.7% |
| 1996 | 0.227 | 0.274 | 0.123 | 0.129 | 0.016 | 0.004 | 0.007 | 0.005 | 0.214 | 1.000 | | 3.3% |
| 1997 | 0.220 | 0.278 | 0.111 | 0.119 | 0.015 | 0.006 | 0.023 | 0.004 | 0.224 | 1.000 | | 10.4% |
| 1998 | 0.234 | 0.312 | 0.114 | 0.111 | 0.015 | 0.004 | 0.000 | 0.000 | 0.210 | 1.000 | | 2.8% |
| 1999 | 0.233 | 0.324 | 0.117 | 0.109 | 0.015 | 0.002 | 0.000 | 0.000 | 0.200 | 1.000 | | 3.9% |
| 2000 | 0.225 | 0.316 | 0.102 | 0.109 | 0.011 | 0.002 | 0.000 | 0.000 | 0.235 | 1.000 | | 3.0% |
| 2001 | 0.232 | 0.324 | 0.096 | 0.116 | 0.016 | 0.002 | 0.000 | 0.001 | 0.213 | 1.000 | | 8.0% |
| 2002 | 0.241 | 0.332 | 0.084 | 0.111 | 0.015 | 0.002 | 0.000 | 0.002 | 0.212 | 1.000 | | 2.2% |
| 2003 | 0.251 | 0.365 | 0.060 | 0.110 | 0.018 | 0.002 | 0.000 | 0.001 | 0.194 | 1.000 | | 3.0% |
| 2004 | 0.258 | 0.371 | 0.060 | 0.114 | 0.019 | 0.001 | 0.000 | 0.001 | 0.175 | 1.000 | | 4.8% |
| 2005 | 0.262 | 0.382 | 0.060 | 0.112 | 0.019 | 0.001 | 0.000 | 0.001 | 0.163 | 1.000 | | 2.3% |
| 2006 | 0.262 | 0.364 | 0.084 | 0.112 | 0.020 | 0.000 | 0.000 | 0.001 | 0.158 | 1.000 | | 2.6% |
| 2007 | 0.262 | 0.377 | 0.082 | 0.112 | 0.019 | 0.000 | 0.000 | 0.001 | 0.147 | 1.000 | | 5.4% |
| 2008 | 0.264 | 0.396 | 0.081 | 0.112 | 0.020 | 0.001 | 0.000 | 0.002 | 0.125 | 1.000 | | 3.9% |
| 2009 | 0.280 | 0.380 | 0.083 | 0.111 | 0.020 | 0.001 | 0.003 | 0.001 | 0.120 | 1.000 | | 8.4% |
| 2010 | 0.273 | 0.382 | 0.081 | 0.110 | 0.020 | 0.001 | 0.017 | 0.001 | 0.114 | 1.000 | | -1.1% |
| 2011 | 0.267 | 0.386 | 0.079 | 0.109 | 0.020 | 0.001 | 0.023 | 0.001 | 0.113 | 1.000 | | 6.3% |
| 2012 | 0.261 | 0.393 | 0.077 | 0.109 | 0.020 | 0.001 | 0.026 | 0.001 | 0.112 | 1.000 | | 6.0% |
| 2013 | 0.254 | 0.398 | 0.075 | 0.109 | 0.020 | 0.001 | 0.032 | 0.001 | 0.111 | 1.000 | | 6.3% |
| 2014 | 0.247 | 0.404 | 0.074 | 0.108 | 0.020 | 0.001 | 0.035 | 0.001 | 0.109 | 1.000 | | 6.4% |
| 2015 | 0.238 | 0.408 | 0.076 | 0.108 | 0.020 | 0.001 | 0.041 | 0.001 | 0.108 | 1.000 | | 7.0% |
| 2016 | 0.232 | 0.414 | 0.077 | 0.108 | 0.020 | 0.001 | 0.039 | 0.001 | 0.107 | 1.000 | | 6.1% |
| 2017 | 0.226 | 0.421 | 0.078 | 0.108 | 0.020 | 0.001 | 0.037 | 0.001 | 0.107 | 1.000 | | 5.9% |
| 2018 | 0.222 | 0.432 | 0.080 | 0.109 | 0.020 | 0.001 | 0.027 | 0.001 | 0.107 | 1.000 | | 5.0% |
| 2019 | 0.216 | 0.439 | 0.080 | 0.109 | 0.020 | 0.001 | 0.027 | 0.001 | 0.106 | 1.000 | | 6.0% |
| 2020 | 0.210 | 0.446 | 0.081 | 0.110 | 0.020 | 0.001 | 0.026 | 0.001 | 0.105 | 1.000 | | 5.9% |
| 2021 | 0.204 | 0.452 | 0.081 | 0.110 | 0.020 | 0.001 | 0.026 | 0.001 | 0.104 | 1.000 | | 5.7% |
| 2022 | 0.199 | 0.458 | 0.082 | 0.110 | 0.020 | 0.001 | 0.025 | 0.001 | 0.104 | 1.000 | | 5.5% |
| 2023 | 0.194 | 0.464 | 0.082 | 0.110 | 0.020 | 0.001 | 0.024 | 0.001 | 0.103 | 1.000 | | 5.5% |
| 2024 | 0.189 | 0.470 | 0.083 | 0.110 | 0.020 | 0.001 | 0.024 | 0.001 | 0.102 | 1.000 | | 5.6% |

CUADRO No. 24
PARTICIPACION SECTORIAL EN EL PRONOSTICO DE ENERGIA ELECTRICA DE PANAMA
ESCENARIO BAJO

AÑOS 2010 -2024
ESCENARIO BAJO

| AÑO | GWHRES | GWHCOM | GWHIND | GWHOFI | GWHALU | GWHAUT | GWHBLQ | GWHOTR | GWHPER | GWH | D%GWH | MW |
|------|-------------|-----------|------------|---------|----------------|-------------|--------|--------|----------|---------|-------|-------|
| | Residencial | Comercial | Industrial | Oficial | lumbrao public | Autoconsumo | Bloque | Otros | Perdidas | Energia | | Carga |
| 1970 | 0.261 | 0.278 | 0.120 | 0.087 | 0.017 | 0.011 | 0.104 | 0.009 | 0.114 | 1.000 | | |
| 1971 | 0.296 | 0.286 | 0.129 | 0.092 | 0.019 | 0.011 | 0.060 | 0.009 | 0.098 | 1.000 | | 7.0% |
| 1972 | 0.307 | 0.279 | 0.117 | 0.106 | 0.019 | 0.009 | 0.040 | 0.010 | 0.113 | 1.000 | | 13.9% |
| 1973 | 0.296 | 0.270 | 0.113 | 0.094 | 0.016 | 0.008 | 0.061 | 0.006 | 0.137 | 1.000 | | 3.3% |
| 1974 | 0.299 | 0.297 | 0.109 | 0.105 | 0.017 | 0.003 | 0.016 | 0.010 | 0.146 | 1.000 | | 7.2% |
| 1975 | 0.298 | 0.290 | 0.109 | 0.117 | 0.016 | 0.003 | 0.012 | 0.012 | 0.143 | 1.000 | | 4.4% |
| 1976 | 0.292 | 0.270 | 0.096 | 0.132 | 0.015 | 0.003 | 0.029 | 0.011 | 0.152 | 1.000 | | 15.8% |
| 1977 | 0.278 | 0.273 | 0.088 | 0.135 | 0.016 | 0.004 | 0.065 | 0.010 | 0.131 | 1.000 | | 3.6% |
| 1978 | 0.281 | 0.285 | 0.097 | 0.152 | 0.016 | 0.005 | 0.016 | 0.011 | 0.137 | 1.000 | | 7.0% |
| 1979 | 0.258 | 0.258 | 0.094 | 0.145 | 0.015 | 0.005 | 0.074 | 0.009 | 0.141 | 1.000 | | 13.2% |
| 1980 | 0.260 | 0.273 | 0.105 | 0.160 | 0.018 | 0.005 | 0.009 | 0.008 | 0.162 | 1.000 | | 7.0% |
| 1981 | 0.255 | 0.267 | 0.101 | 0.154 | 0.018 | 0.006 | 0.025 | 0.008 | 0.166 | 1.000 | | 4.7% |
| 1982 | 0.246 | 0.262 | 0.107 | 0.153 | 0.017 | 0.006 | 0.025 | 0.008 | 0.175 | 1.000 | | 13.2% |
| 1983 | 0.241 | 0.259 | 0.100 | 0.154 | 0.017 | 0.006 | 0.061 | 0.008 | 0.156 | 1.000 | | 3.5% |
| 1984 | 0.234 | 0.258 | 0.103 | 0.147 | 0.017 | 0.006 | 0.044 | 0.008 | 0.184 | 1.000 | | 2.9% |
| 1985 | 0.232 | 0.253 | 0.105 | 0.145 | 0.016 | 0.005 | 0.043 | 0.007 | 0.194 | 1.000 | | 9.9% |
| 1986 | 0.237 | 0.252 | 0.104 | 0.141 | 0.015 | 0.005 | 0.036 | 0.006 | 0.203 | 1.000 | | 5.2% |
| 1987 | 0.241 | 0.247 | 0.111 | 0.138 | 0.015 | 0.005 | 0.033 | 0.007 | 0.203 | 1.000 | | 6.5% |
| 1988 | 0.254 | 0.235 | 0.096 | 0.141 | 0.016 | 0.005 | 0.045 | 0.008 | 0.200 | 1.000 | | -0.8% |
| 1989 | 0.234 | 0.233 | 0.097 | 0.136 | 0.016 | 0.005 | 0.027 | 0.008 | 0.244 | 1.000 | | -5.2% |
| 1990 | 0.232 | 0.231 | 0.101 | 0.129 | 0.016 | 0.005 | 0.026 | 0.008 | 0.252 | 1.000 | | 4.1% |
| 1991 | 0.232 | 0.243 | 0.111 | 0.121 | 0.016 | 0.004 | 0.020 | 0.008 | 0.245 | 1.000 | | 5.2% |
| 1992 | 0.238 | 0.250 | 0.122 | 0.122 | 0.015 | 0.004 | 0.009 | 0.007 | 0.233 | 1.000 | | 6.0% |
| 1993 | 0.234 | 0.262 | 0.128 | 0.123 | 0.014 | 0.004 | 0.005 | 0.006 | 0.223 | 1.000 | | 4.5% |
| 1994 | 0.232 | 0.269 | 0.126 | 0.122 | 0.013 | 0.004 | 0.014 | 0.006 | 0.214 | 1.000 | | 9.3% |
| 1995 | 0.234 | 0.277 | 0.127 | 0.128 | 0.015 | 0.004 | 0.004 | 0.005 | 0.207 | 1.000 | | 4.7% |
| 1996 | 0.227 | 0.274 | 0.123 | 0.129 | 0.016 | 0.004 | 0.007 | 0.005 | 0.214 | 1.000 | | 3.3% |
| 1997 | 0.220 | 0.278 | 0.111 | 0.119 | 0.015 | 0.006 | 0.023 | 0.004 | 0.224 | 1.000 | | 10.4% |
| 1998 | 0.234 | 0.312 | 0.114 | 0.111 | 0.015 | 0.004 | 0.000 | 0.000 | 0.210 | 1.000 | | 2.8% |
| 1999 | 0.233 | 0.324 | 0.117 | 0.109 | 0.015 | 0.002 | 0.000 | 0.000 | 0.200 | 1.000 | | 3.9% |
| 2000 | 0.225 | 0.316 | 0.102 | 0.109 | 0.011 | 0.002 | 0.000 | 0.000 | 0.235 | 1.000 | | 3.0% |
| 2001 | 0.232 | 0.324 | 0.096 | 0.116 | 0.016 | 0.002 | 0.000 | 0.001 | 0.213 | 1.000 | | 8.0% |
| 2002 | 0.241 | 0.332 | 0.084 | 0.111 | 0.015 | 0.002 | 0.000 | 0.002 | 0.212 | 1.000 | | 2.2% |
| 2003 | 0.251 | 0.365 | 0.060 | 0.110 | 0.018 | 0.002 | 0.000 | 0.001 | 0.194 | 1.000 | | 3.0% |
| 2004 | 0.258 | 0.371 | 0.060 | 0.114 | 0.019 | 0.001 | 0.000 | 0.001 | 0.175 | 1.000 | | 4.8% |
| 2005 | 0.262 | 0.382 | 0.060 | 0.112 | 0.019 | 0.001 | 0.000 | 0.001 | 0.163 | 1.000 | | 2.3% |
| 2006 | 0.262 | 0.364 | 0.084 | 0.112 | 0.020 | 0.000 | 0.000 | 0.001 | 0.158 | 1.000 | | 2.6% |
| 2007 | 0.262 | 0.377 | 0.082 | 0.112 | 0.019 | 0.000 | 0.000 | 0.001 | 0.147 | 1.000 | | 5.4% |
| 2008 | 0.264 | 0.396 | 0.081 | 0.112 | 0.020 | 0.001 | 0.000 | 0.002 | 0.125 | 1.000 | | 3.9% |
| 2009 | 0.280 | 0.380 | 0.083 | 0.111 | 0.020 | 0.001 | 0.003 | 0.001 | 0.120 | 1.000 | | 8.4% |
| 2010 | 0.274 | 0.381 | 0.080 | 0.110 | 0.020 | 0.001 | 0.015 | 0.001 | 0.118 | 1.000 | | -1.3% |
| 2011 | 0.268 | 0.385 | 0.078 | 0.109 | 0.019 | 0.002 | 0.021 | 0.001 | 0.117 | 1.000 | | 5.9% |
| 2012 | 0.264 | 0.391 | 0.076 | 0.109 | 0.019 | 0.002 | 0.022 | 0.001 | 0.117 | 1.000 | | 5.3% |
| 2013 | 0.257 | 0.396 | 0.073 | 0.108 | 0.019 | 0.002 | 0.028 | 0.001 | 0.117 | 1.000 | | 6.3% |
| 2014 | 0.250 | 0.402 | 0.072 | 0.108 | 0.019 | 0.002 | 0.032 | 0.001 | 0.116 | 1.000 | | 6.4% |
| 2015 | 0.242 | 0.406 | 0.073 | 0.107 | 0.019 | 0.002 | 0.036 | 0.001 | 0.115 | 1.000 | | 6.7% |
| 2016 | 0.236 | 0.412 | 0.073 | 0.107 | 0.019 | 0.002 | 0.035 | 0.001 | 0.116 | 1.000 | | 5.8% |
| 2017 | 0.231 | 0.419 | 0.073 | 0.107 | 0.019 | 0.002 | 0.033 | 0.001 | 0.116 | 1.000 | | 5.8% |
| 2018 | 0.226 | 0.429 | 0.074 | 0.108 | 0.019 | 0.002 | 0.026 | 0.001 | 0.116 | 1.000 | | 5.2% |
| 2019 | 0.220 | 0.435 | 0.074 | 0.108 | 0.019 | 0.002 | 0.025 | 0.001 | 0.117 | 1.000 | | 5.9% |
| 2020 | 0.214 | 0.442 | 0.074 | 0.108 | 0.019 | 0.002 | 0.025 | 0.001 | 0.117 | 1.000 | | 5.9% |
| 2021 | 0.208 | 0.448 | 0.074 | 0.108 | 0.019 | 0.002 | 0.024 | 0.001 | 0.116 | 1.000 | | 5.6% |
| 2022 | 0.203 | 0.454 | 0.074 | 0.108 | 0.019 | 0.002 | 0.024 | 0.001 | 0.117 | 1.000 | | 5.4% |
| 2023 | 0.198 | 0.460 | 0.073 | 0.108 | 0.019 | 0.002 | 0.023 | 0.001 | 0.117 | 1.000 | | 5.4% |
| 2024 | 0.193 | 0.466 | 0.073 | 0.108 | 0.019 | 0.002 | 0.022 | 0.001 | 0.117 | 1.000 | | 5.5% |

DEMANDA MAXIMA DE GENERACION , POR PARTICIPANTE CONSUMIDOR Y POR BARRA. 2010-2024 (MW)

| | 2008 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| ELEKTRA | | | | | | | | | | | | | | | | |
| Santa María | 69.01 | 72.98 | 75.55 | 77.84 | 81.97 | 86.79 | 92.34 | 97.30 | 102.37 | 107.31 | 113.39 | 119.75 | 126.11 | 132.51 | 139.08 | 146.05 |
| BLM | 43.85 | 46.36 | 48.00 | 49.45 | 52.08 | 55.14 | 58.67 | 61.82 | 65.04 | 68.18 | 72.04 | 76.08 | 80.12 | 84.19 | 88.36 | 92.79 |
| France Field | 49.98 | 52.85 | 54.72 | 56.38 | 59.37 | 62.86 | 66.88 | 70.47 | 74.14 | 77.72 | 82.13 | 86.73 | 91.34 | 95.98 | 100.73 | 105.78 |
| Tocumen | 42.53 | 44.97 | 46.56 | 47.97 | 50.52 | 53.48 | 56.91 | 59.96 | 63.09 | 66.13 | 69.88 | 73.80 | 77.72 | 81.66 | 85.71 | 90.01 |
| Chilibre | 42.18 | 44.60 | 46.17 | 47.57 | 50.10 | 53.04 | 56.44 | 59.47 | 62.57 | 65.59 | 69.30 | 73.19 | 77.08 | 80.99 | 85.00 | 89.26 |
| Cerro Viento | 74.79 | 79.08 | 81.87 | 84.36 | 88.83 | 94.05 | 100.07 | 105.45 | 110.94 | 116.29 | 122.88 | 129.77 | 136.67 | 143.60 | 150.72 | 158.27 |
| Monte Oscuro | 45.54 | 48.16 | 49.86 | 51.37 | 54.10 | 57.27 | 60.94 | 64.21 | 67.56 | 70.82 | 74.83 | 79.03 | 83.23 | 87.45 | 91.78 | 96.38 |
| Geehan | 12.54 | 13.26 | 13.73 | 14.14 | 14.89 | 15.77 | 16.78 | 17.68 | 18.60 | 19.50 | 20.60 | 21.76 | 22.92 | 24.08 | 25.27 | 26.54 |
| Tinajitas | 32.04 | 33.88 | 35.07 | 36.14 | 38.06 | 40.29 | 42.87 | 45.17 | 47.53 | 49.82 | 52.64 | 55.60 | 58.55 | 61.52 | 64.57 | 67.81 |
| Total | 412.46 | 436.15 | 451.52 | 465.23 | 489.91 | 518.69 | 551.91 | 581.54 | 611.82 | 641.36 | 677.71 | 715.71 | 753.74 | 791.98 | 831.23 | 872.89 |
| EDEMET | | | | | | | | | | | | | | | | |
| Locería | 85.50 | 90.41 | 93.59 | 96.44 | 101.55 | 107.52 | 114.40 | 120.55 | 126.82 | 132.95 | 140.48 | 148.36 | 156.24 | 164.17 | 172.30 | 180.94 |
| Marañón | 97.56 | 103.16 | 106.79 | 110.04 | 115.87 | 122.68 | 130.54 | 137.55 | 144.71 | 151.70 | 160.29 | 169.28 | 178.27 | 187.32 | 196.60 | 206.45 |
| San Francisco | 87.69 | 92.73 | 95.99 | 98.91 | 104.16 | 110.27 | 117.34 | 123.64 | 130.07 | 136.36 | 144.08 | 152.16 | 160.25 | 168.38 | 176.72 | 185.58 |
| Centro Bancario | 70.15 | 74.18 | 76.80 | 79.13 | 83.33 | 88.22 | 93.87 | 98.91 | 104.06 | 109.08 | 115.27 | 121.73 | 128.20 | 134.70 | 141.38 | 148.46 |
| Llano Sanchez 115 | 101.72 | 100.76 | 104.32 | 107.48 | 113.19 | 119.83 | 127.51 | 134.35 | 141.35 | 148.18 | 156.57 | 165.35 | 174.14 | 182.97 | 192.04 | 201.66 |
| Llano Sanchez 34 | 0.22 | 0.23 | 0.24 | 0.25 | 0.26 | 0.28 | 0.29 | 0.31 | 0.33 | 0.34 | 0.36 | 0.38 | 0.40 | 0.42 | 0.44 | 0.46 |
| Las Guías | 0.00 | 19.42 | 20.11 | 20.72 | 21.82 | 23.10 | 24.58 | 25.90 | 27.25 | 28.56 | 30.18 | 31.87 | 33.57 | 35.27 | 37.02 | 38.87 |
| Chorrera 34 | 69.71 | 61.09 | 63.24 | 65.16 | 68.62 | 72.65 | 77.31 | 81.46 | 85.70 | 89.84 | 94.93 | 100.25 | 105.58 | 110.93 | 116.43 | 122.27 |
| Miraflores 44 | 16.08 | 17.00 | 17.60 | 18.14 | 19.10 | 20.22 | 21.52 | 22.67 | 23.85 | 25.00 | 26.42 | 27.90 | 29.39 | 30.88 | 32.41 | 34.03 |
| Balboa 44 | 14.48 | 15.31 | 15.85 | 16.33 | 17.20 | 18.21 | 19.38 | 20.42 | 21.48 | 22.52 | 23.79 | 25.13 | 26.46 | 27.80 | 29.18 | 30.64 |
| Summit 44 | 1.59 | 1.68 | 1.74 | 1.79 | 1.89 | 2.00 | 2.13 | 2.24 | 2.36 | 2.47 | 2.61 | 2.76 | 2.90 | 3.05 | 3.20 | 3.36 |
| Gamboia 44 | 2.41 | 2.55 | 2.64 | 2.72 | 2.86 | 3.03 | 3.23 | 3.40 | 3.58 | 3.75 | 3.96 | 4.18 | 4.41 | 4.63 | 4.86 | 5.10 |
| Agua Clara 44 | 2.41 | 2.55 | 2.64 | 2.72 | 2.86 | 3.03 | 3.23 | 3.40 | 3.58 | 3.75 | 3.96 | 4.18 | 4.41 | 4.63 | 4.86 | 5.10 |
| Total | 549.53 | 581.08 | 601.56 | 619.82 | 652.71 | 691.04 | 735.31 | 774.78 | 815.13 | 854.49 | 902.91 | 953.54 | 1004.20 | 1055.16 | 1107.44 | 1162.94 |
| EDECHI | | | | | | | | | | | | | | | | |
| Mata de Nance 34 | 60.79 | 64.28 | 66.55 | 68.57 | 72.21 | 76.45 | 81.34 | 85.71 | 90.17 | 94.53 | 99.88 | 105.49 | 111.09 | 116.73 | 122.51 | 128.65 |
| Progreso | 12.06 | 12.75 | 13.20 | 13.60 | 14.32 | 15.16 | 16.13 | 17.00 | 17.89 | 18.75 | 19.81 | 20.92 | 22.03 | 23.15 | 24.30 | 25.52 |
| Total | 72.85 | 77.03 | 79.75 | 82.17 | 86.53 | 91.61 | 97.48 | 102.71 | 108.06 | 113.28 | 119.70 | 126.41 | 133.12 | 139.88 | 146.81 | 154.17 |
| TOTAL DIST. | 1034.84 | 1094.27 | 1132.83 | 1167.21 | 1229.15 | 1301.34 | 1384.70 | 1459.04 | 1535.01 | 1609.13 | 1700.31 | 1795.66 | 1891.06 | 1987.02 | 2085.48 | 2190.00 |
| CEMENTO PANAMA | 5.94 | 8.12 | 8.05 | 8.23 | 8.23 | 8.23 | 8.23 | 8.23 | 8.26 | 8.26 | 8.26 | 8.26 | 8.26 | 8.26 | 8.26 | 8.26 |
| PTP (Ch. Grande) | 0.00 | 15.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37 |
| CHANGUINOLA | 0.00 | 11.87 | 12.35 | 12.86 | 13.39 | 13.95 | 14.54 | 15.15 | 15.80 | 16.48 | 17.20 | 17.95 | 18.75 | 19.56 | 20.40 | 21.28 |
| TOTAL DEMANDA | 1,040.78 | 1,129.26 | 1,190.23 | 1,225.30 | 1,287.77 | 1,360.52 | 1,444.47 | 1,519.42 | 1,596.07 | 1,670.87 | 1,762.77 | 1,858.87 | 1,955.07 | 2,051.84 | 2,151.14 | 2,256.54 |
| Pérdidas Trans. MW | 23.52 | 20.04 | 25.77 | 57.60 | 69.13 | 75.78 | 82.43 | 89.08 | 95.73 | 96.73 | 97.73 | 98.73 | 99.73 | 100.76 | 101.76 | 102.76 |
| Pérdidas Trans. % | 2.21% | 1.74% | 2.12% | 4.49% | 5.09% | 5.28% | 5.40% | 5.54% | 5.66% | 5.47% | 5.25% | 5.04% | 4.85% | 4.68% | 4.52% | 4.36% |
| TOTAL GENERACIÓN | 1,064.30 | 1,149.30 | 1,216.00 | 1,282.90 | 1,356.90 | 1,436.30 | 1,526.90 | 1,608.50 | 1,691.80 | 1,767.60 | 1,860.50 | 1,957.60 | 2,054.80 | 2,152.60 | 2,252.90 | 2359.3 |

