

# PRECIOS EN BARRA DEL SEIN, PRECIOS EN BARRA Y PRECIOS EFECTIVOS DE SISTEMAS AISLADOS

TARIFAS EN BARRA (Res. N° 056-2018-OS/CD)

FIJACION AL 01/mayo/2017

ACTUALIZADO AL 04/Noviembre/2018 CON REDONDEO

| TENSIÓN<br>KV                                                                   | PPM<br>\$/KW-mes | PEMP<br>ctm. \$/KW/h | PEMPo<br>ctm. \$/KW/h |
|---------------------------------------------------------------------------------|------------------|----------------------|-----------------------|
| <b>Sistema Eléctrico Interconectado Nacional (SEIN) - Res. Barra (Cuadro 1)</b> |                  |                      |                       |
| Zorritos                                                                        | 220              | 20,00                | 14,53                 |
| Talara                                                                          | 220              | 20,00                | 14,42                 |
| Piura Oeste                                                                     | 220              | 20,00                | 14,60                 |
| Chiclayo Oeste                                                                  | 220              | 20,00                | 14,64                 |
| Carhuaz                                                                         | 220              | 20,00                | 14,43                 |
| Carhuaz                                                                         | 138              | 20,00                | 14,44                 |
| Cutervo                                                                         | 138              | 20,00                | 14,56                 |
| Jaen                                                                            | 138              | 20,00                | 14,67                 |
| Guadalupe                                                                       | 220              | 20,00                | 14,60                 |
| Guadalupe                                                                       | 60               | 20,00                | 14,63                 |
| Cajamarca                                                                       | 220              | 20,00                | 14,43                 |
| Trujillo Norte                                                                  | 220              | 20,00                | 14,55                 |
| Chimbote 1                                                                      | 220              | 20,00                | 14,48                 |
| Chimbote 1                                                                      | 138              | 20,00                | 14,48                 |
| Paramonga Nueva                                                                 | 220              | 20,00                | 14,25                 |
| Paramonga Nueva                                                                 | 138              | 20,00                | 14,23                 |
| Paramonga Existente                                                             | 138              | 20,00                | 14,17                 |
| Huacho                                                                          | 220              | 20,00                | 14,31                 |
| Zapallal                                                                        | 220              | 20,00                | 14,53                 |
| Ventanilla                                                                      | 220              | 20,00                | 14,57                 |
| Lima                                                                            | 220              | 20,00                | 14,60                 |
| Cantera                                                                         | 220              | 20,00                | 14,48                 |
| Chilca                                                                          | 220              | 20,00                | 14,49                 |
| Independencia                                                                   | 220              | 20,00                | 14,43                 |
| Ica                                                                             | 220              | 20,00                | 14,47                 |
| Marcona                                                                         | 220              | 20,00                | 14,42                 |
| Mantaro                                                                         | 220              | 20,00                | 13,79                 |
| Huayacachi                                                                      | 220              | 20,00                | 13,96                 |
| Pachachaca                                                                      | 220              | 20,00                | 13,67                 |
| Pomacocha                                                                       | 220              | 20,00                | 13,53                 |
| Huancavelica                                                                    | 220              | 20,00                | 13,97                 |
| Callahuanca                                                                     | 220              | 20,00                | 14,19                 |
| Cajamarquilla                                                                   | 220              | 20,00                | 14,49                 |
| Huailanca                                                                       | 138              | 20,00                | 14,05                 |
| Vizcarra                                                                        | 220              | 20,00                | 13,73                 |
| Tingo Maria                                                                     | 220              | 20,00                | 13,30                 |
| Aguaytia                                                                        | 220              | 20,00                | 13,18                 |
| Aguaytia                                                                        | 138              | 20,00                | 13,21                 |
| Aguaytia                                                                        | 22,9             | 20,00                | 13,20                 |
| Pucallpa                                                                        | 138              | 20,00                | 13,79                 |
| Pucallpa                                                                        | 60               | 20,00                | 13,81                 |
| Aucayacu                                                                        | 138              | 20,00                | 16,99                 |
| Tocache                                                                         | 138              | 20,00                | 16,89                 |
| Tingo Maria                                                                     | 138              | 20,00                | 13,11                 |
| Huánuco                                                                         | 138              | 20,00                | 13,41                 |
| Paragsha II                                                                     | 138              | 20,00                | 13,47                 |
| Paragsha                                                                        | 220              | 20,00                | 13,50                 |
| Yaupi                                                                           | 138              | 20,00                | 13,31                 |
| Yuncán                                                                          | 138              | 20,00                | 13,38                 |
| Yuncán                                                                          | 220              | 20,00                | 13,41                 |
| Oroya Nueva                                                                     | 220              | 20,00                | 13,61                 |
| Oroya Nueva                                                                     | 138              | 20,00                | 13,58                 |
| Oroya Nueva                                                                     | 50               | 20,00                | 13,60                 |
| Carhuamayo                                                                      | 138              | 20,00                | 13,49                 |
| Carhuamayo Nueva                                                                | 220              | 20,00                | 13,49                 |
| Carpo                                                                           | 138              | 20,00                | 13,53                 |
| Desierto                                                                        | 220              | 20,00                | 14,48                 |
| Condorcocha                                                                     | 138              | 20,00                | 13,55                 |
| Condorcocha                                                                     | 44               | 20,00                | 13,55                 |
| Machupicchu                                                                     | 138              | 20,00                | 14,19                 |
| Cachimayo                                                                       | 138              | 20,00                | 14,60                 |
| Cusco                                                                           | 138              | 20,00                | 14,66                 |
| Combapata                                                                       | 138              | 20,00                | 14,83                 |
| Tintaya                                                                         | 138              | 20,00                | 14,96                 |
| Ayaviri                                                                         | 138              | 20,00                | 14,74                 |
| Azángaro                                                                        | 138              | 20,00                | 14,61                 |
| San Gabán                                                                       | 138              | 20,00                | 13,95                 |
| Mazucú                                                                          | 138              | 20,00                | 14,15                 |
| Puerto Maldonado                                                                | 138              | 20,00                | 14,65                 |
| Juliaca                                                                         | 138              | 20,00                | 14,81                 |
| Puno                                                                            | 138              | 20,00                | 14,81                 |
| Puno                                                                            | 220              | 20,00                | 14,78                 |
| Callalli                                                                        | 138              | 20,00                | 14,94                 |
| Santuario                                                                       | 138              | 20,00                | 14,75                 |
| Arequipa                                                                        | 138              | 20,00                | 14,81                 |
| Socabaya                                                                        | 220              | 20,00                | 14,79                 |
| Cerro Verde                                                                     | 138              | 20,00                | 14,86                 |
| Repatriación                                                                    | 138              | 20,00                | 14,94                 |
| Mollendo                                                                        | 138              | 20,00                | 15,03                 |
| Moquegua                                                                        | 220              | 20,00                | 14,74                 |
| Moquegua                                                                        | 138              | 20,00                | 14,75                 |
| Ilo ELS                                                                         | 138              | 20,00                | 14,85                 |
| Bofillica                                                                       | 138              | 20,00                | 14,81                 |
| Toquepala                                                                       | 138              | 20,00                | 14,83                 |
| Aricota                                                                         | 138              | 20,00                | 14,71                 |
| Aricota                                                                         | 66               | 20,00                | 14,64                 |
| Tacna (Los Héroes)                                                              | 220              | 20,00                | 14,86                 |
| Tacna (Los Héroes)                                                              | 66               | 20,00                | 15,00                 |
| La Nina                                                                         | 220              | 20,00                | 14,58                 |
| Cotacuse                                                                        | 220              | 20,00                | 14,40                 |
| Carabayillo                                                                     | 220              | 20,00                | 14,48                 |
| La Ramada                                                                       | 220              | 20,00                | 14,25                 |
| Lomera                                                                          | 220              | 20,00                | 14,46                 |
| Asia                                                                            | 220              | 20,00                | 14,78                 |
| Alto Praderas                                                                   | 220              | 20,00                | 14,64                 |
| La Planicie                                                                     | 220              | 20,00                | 14,48                 |
| Belaunde                                                                        | 138              | 20,00                | 12,40                 |
| Tintaya Nueva                                                                   | 220              | 20,00                | 14,94                 |

|                                                                          | TENSIÓN<br>KV | PPM       | PEMP         | PEMF         | PCSP      | CPSEE        | (PPM+PCSP) | (PEMP + CPSEE) | (PEMF + CPSEE) | Potencia     | Energía      | Promedio     |
|--------------------------------------------------------------------------|---------------|-----------|--------------|--------------|-----------|--------------|------------|----------------|----------------|--------------|--------------|--------------|
|                                                                          |               | \$/KW-mes | ctm. \$/KW/h | ctm. \$/KW/h | \$/KW-mes | ctm. \$/KW/h | \$/KW-mes  | ctm. \$/KW/h   | ctm. \$/KW/h   | ctm. \$/KW/h | ctm. \$/KW/h | ctm. \$/KW/h |
| Sistema Eléctrico Interconectado Nacional (SEIN) - Res. Barra (Cuadro 1) |               |           |              |              |           |              |            |                |                |              |              |              |
| Zorritos                                                                 | 220           | 20,76     | 15,13        | 14,09        | 34,113    | 54,87        | 15,13      | 14,09          | 9,56           | 14,30        | 23,85        |              |
| Talara                                                                   | 220           | 20,76     | 15,01        | 13,99        | 34,113    | 54,87        | 15,01      | 13,99          | 9,56           | 14,19        | 23,75        |              |
| Piura Oeste                                                              | 220           | 20,76     | 15,20        | 14,18        | 34,113    | 54,87        | 15,20      | 14,18          | 9,56           | 14,38        | 23,94        |              |
| Chiclayo Oeste                                                           | 220           | 20,76     | 15,24        | 14,24        | 34,113    | 54,87        | 15,24      | 14,24          | 9,56           | 14,44        | 23,99        |              |
| Carhuaz                                                                  | 220           | 20,76     | 15,02        | 14,01        | 34,113    | 54,87        | 15,02      | 14,01          | 9,56           | 14,21        | 23,77        |              |
| Carhuaz                                                                  | 138           | 20,76     | 15,03        | 14,01        | 34,113    | 54,87        | 15,03      | 14,01          | 9,56           | 14,21        | 23,77        |              |
| Cutervo                                                                  | 138           | 20,76     | 15,16        | 14,07        | 34,113    | 54,87        | 15,16      | 14,07          | 9,56           | 14,29        | 23,84        |              |
| Jaen                                                                     | 138           | 20,76     | 15,27        | 14,12        | 34,113    | 54,87        | 15,27      | 14,12          | 9,56           | 14,35        | 23,90        |              |
| Guadalupe                                                                | 220           | 20,76     | 15,20        | 14,24        | 34,113    | 54,87        | 15,20      | 14,24          | 9,56           | 14,43        | 23,99        |              |
| Guadalupe                                                                | 60            | 20,76     | 15,23        | 14,26        | 34,113    | 54,87        | 15,23      | 14,26          | 9,56           | 14,45        | 24,01        |              |
| Guadalupe                                                                | 220           | 20,76     | 15,02        | 13,97        | 34,113    | 54,87        | 15,02      | 13,97          | 9,56           | 14,18        | 23,73        |              |
| Trujillo Norte                                                           | 220           | 20,76     | 15,15        | 14,24        | 34,113    | 54,87        | 15,15      | 14,24          | 9,56           | 14,42        | 23,98        |              |
| Chimbote 1                                                               | 220           | 20,76     | 15,08        | 14,21        | 34,113    | 54,87        | 15,08      | 14,21          | 9,56           | 14,38        | 23,94        |              |
| Chimbote 1                                                               | 138           | 20,76     | 15,08        | 14,18        | 34,113    | 54,87        | 15,08      | 14,18          | 9,56           | 14,36        | 23,91        |              |
| Paramonga Nueva                                                          | 220           | 20,76     | 14,84        | 14,03        | 34,113    | 54,87        | 14,84      | 14,03          | 9,56           | 14,19        | 23,75        |              |
| Paramonga Nueva                                                          | 138           | 20,76     | 14,81        | 14,02        | 34,113    | 54,87        | 14,81      | 14,02          | 9,56           | 14,18        | 23,73        |              |
| Paramonga Existente                                                      | 138           | 20,76     | 14,75        | 13,98        | 34,113    | 54,87        | 14,75      | 13,98          | 9,56           | 14,13        | 23,69        |              |
| Huacho                                                                   | 220           | 20,76     | 14,90        | 14,18        | 34,113    | 54,87        | 14,90      | 14,18          | 9,56           | 14,32        | 23,88        |              |
| Zapallal                                                                 | 220           | 20,76     | 15,13        | 14,47        | 34,113    | 54,87        | 15,13      | 14,47          | 9,56           | 14,60        | 24,16        |              |
| Ventanilla                                                               | 220           | 20,76     | 15,17        | 14,55        | 34,113    | 54,87        | 15,17      | 14,55          | 9,56           | 14,67        | 24,23        |              |
| Lima                                                                     | 220           | 20,76     | 15,20        | 14,62        | 34,113    | 54,87        | 15,20      | 14,62          | 9,56           | 14,74        | 24,29        |              |
| Cantera                                                                  | 220           | 20,76     | 15,08        | 14,50        | 34,113    | 54,87        | 15,08      | 14,50          | 9,56           | 14,62        | 24,17        |              |
| Chilca                                                                   | 220           | 20,76     | 15,09        | 14,56        | 34,113    | 54,87        | 15,09      | 14,56          | 9,56           | 14,67        | 24,22        |              |
| Independencia                                                            | 220           | 20,76     | 15,02        | 14,41        | 34,113    | 54,87        | 15,02      | 14,41          | 9,56           | 14,53        | 24,09        |              |
| Ica                                                                      | 220           | 20,76     | 15,06        | 14,43        | 34,113    | 54,87        | 15,06      | 14,43          | 9,56           | 14,56        | 24,11        |              |
| Marcona                                                                  | 220           | 20,76     | 15,01        | 14,27        | 34,113    | 54,87        | 15,01      | 14,27          | 9,56           | 14,42        | 23,97        |              |
| Mantaro                                                                  | 220           | 20,76     | 14,36        | 13,58        | 34,113    | 54,87        | 14,36      | 13,58          | 9,56           | 13,74        | 23,29        |              |
| Huayacachi                                                               | 220           | 20,76     | 14,63        | 13,78        | 34,113    | 54,87        | 14,63      | 13,78          | 9,56           | 13,95        | 23,50        |              |
| Pachachaca                                                               | 220           | 20,76     | 14,23        | 13,32        | 34,113    | 54,87        | 14,23      | 13,32          | 9,56           | 13,50        | 23,06        |              |
| Pomacocha                                                                | 220           | 20,76     | 14,09        | 13,09        | 34,113    | 54,87        | 14,09      | 13,09          | 9,56           | 13,29        | 22,84        |              |
| Huancavelica                                                             | 220           | 20,76     | 14,54        | 13,80        | 34,113    | 54,87        | 14,54      | 13,80          | 9,56           | 13,95        | 23,50        |              |
| Callahuanca                                                              | 220           | 20,76     | 14,77        | 14,22        | 34,113    | 54,87        | 14,77      | 14,22          | 9,56           | 14,33        | 23,89        |              |
| Cajamarquilla                                                            | 220           | 20,76     | 15,09        | 14,51        | 34,113    | 54,87        | 15,09      | 14,51          | 9,56           | 14,63        | 24,18        |              |
| Huailanca                                                                | 138           | 20,76     | 14,63        | 13,78        | 34,113    | 54,87        | 14,63      | 13,78          | 9,56           | 13,95        | 23,50        |              |
| Vizcarra                                                                 | 220           | 20,76     | 14,29        | 13,25        | 34,113    | 54,87        | 14,29      | 13,25          | 9,56           | 13,46        | 23,01        |              |
| Tingo Maria                                                              | 220           | 20,76     | 13,85        | 12,96        | 34,113    | 54,87        | 13,85      | 12,96          | 9,56           | 13,14        | 22,69        |              |
| Aguaytia                                                                 | 220           | 20,76     | 13,72        | 12,83        | 34,113    | 54,87        | 13,72      | 12,83          | 9,56           | 13,01        | 22,56        |              |
| Aguaytia                                                                 | 138           | 20,76     | 13,75        | 12,85        | 34,113    | 54,87        | 13,75      | 12,85          | 9,56           | 13,03        | 22,58        |              |
| Aguaytia                                                                 | 22,9          | 20,76     | 13,74        | 12,84        | 34,113    | 54,87        | 13,74      | 12,84          | 9,56           | 13,02        | 22,57        |              |
| Pucallpa                                                                 | 138           | 20,76     | 14,36        | 13,28        | 34,113    | 54,87        | 14,36      | 13,28          | 9,56           | 13,49        | 23,05        |              |
| Pucallpa                                                                 | 60            | 20,76     | 14,38        | 13,29        | 34,113    | 1,427        | 54,87      | 15,81          | 14,72          | 9,56         | 14,94        | 24,49        |
| Aucayacu                                                                 | 138           | 20,76     | 17,69        | 13,10        | 34,113    | 54,87        | 17,69      | 13,10          | 9,56           | 14,01        | 23,57        |              |
| Tocache                                                                  | 138           | 20,76     | 17,58        | 13,51        | 34,113    | 54,87        | 17,58      | 13,51          | 9,56           | 14,32        | 23,88        |              |
| Tingo Maria                                                              | 138           | 20,76     | 13,65        | 12,90        | 34,113    | 54,87        | 13,65      | 12,90          | 9,56           | 13,05        | 22,61        |              |
| Huánuco                                                                  | 138           | 20,76     | 13,96        | 12,94        | 34,113    | 54,87        | 13,96      | 12,94          | 9,56           | 13,00        | 22,60        |              |
| Paragsha II                                                              | 138           | 20,76     | 14,02        | 12,80        | 34,113    | 54,87        | 14,02      | 12,80          | 9,56           | 13,04        | 22,60        |              |
| Paragsha                                                                 | 220           | 20,76     | 14,05        | 12,81        | 34,113    | 54,87        | 14,05      | 12,81          | 9,56           | 13,06        | 22,61        |              |
| Yaupi                                                                    | 138           | 20,76     | 13,86        | 12,59        | 34,113    | 54,87        | 13,86      | 12,59          | 9,56           | 12,84        | 22,40        |              |
| Yuncán                                                                   | 138           | 20,76     | 13,93        | 12,65        | 34,113    | 54,87        | 13,93      | 12,65          | 9,56           | 12,90        | 22,46        |              |
| Yuncán                                                                   | 220           | 20,76     | 13,96        | 12,67        | 34,113    | 54,87        | 13,96      | 12,67          | 9,56           | 12,90        | 22,46        |              |
| Oroya Nueva                                                              | 220           | 20,76     | 14,17        | 12,89        | 34,113    | 54,87        | 14,17      | 12,89          | 9,56           | 13,14        | 22,70        |              |
| Oroya Nueva                                                              | 138           | 20,76     | 14,14        | 12,77        | 34,113    | 54,87        | 14,14      | 12,77          | 9,56           | 13,04        | 22,60        |              |
| Oroya Nueva                                                              | 50            | 20,76     | 14,16        | 12,93        | 34,113    | 54,87        | 14,16      | 12,93          | 9,56           | 13,17        | 22,73        |              |
| Carhuamayo                                                               | 138           | 20,76     | 14,04        | 12,76        | 34,113    | 54,87        | 14,04      | 12,76          | 9,56           | 13,01        | 22,57        |              |
| Carhuamayo Nueva                                                         | 220           | 20,76     | 14,04        | 12,73        | 34,113    | 54,87        | 14,04      | 12,73          | 9,56           | 12,99        | 22,55        |              |
| Carpo                                                                    | 138           | 20,76     | 14,09        | 12,73        | 34,113    | 54,87        | 14,09      | 12,73          | 9,56           | 13,00        | 22,56        |              |
| Desierto                                                                 | 220           | 20,76     | 15,08        | 14,48        | 34,113    | 54,87        | 15,08      | 14,48          | 9,56           | 14,60        | 24,16        |              |
| Condorcocha                                                              | 138           | 20,76     | 14,11        | 12,74        | 34,113    | 54,87        | 14,11      | 12,74          | 9,56           | 13,01        | 22,57        |              |
| Condorcocha                                                              | 44            | 20,76     | 14,11        | 12,74        | 34,113    | 54,87        | 14,11      | 12,74          | 9,56           | 13,01        | 22,57        |              |
| Machupicchu                                                              | 138           | 20,76     | 14,77        | 13,95        | 34,113    | 54,87        | 14,77      | 13,95          | 9,56           | 14,11        | 23,67        |              |
| Cachimayo                                                                | 138           | 20,76     | 15,20        | 14,30        | 34,113    | 54,87        | 15,20      | 14,30          | 9,56           | 14,48        | 24,03        |              |
| Cusco                                                                    | 138           | 20,76     | 15,26        | 14,35        | 34,113    | 54,87        | 15,26      | 14,35          | 9,56           | 14,53        | 24,09        |              |
| Combapata                                                                | 138           | 20,76     | 15,44        | 14,51        | 34,113    | 54,87        | 15,44      | 14,51          | 9,56           | 14,70        | 24,25        |              |
| Tintaya                                                                  | 138           | 20,76     | 15,57        | 14,66        | 34,113    | 54,87        | 15,57      | 14,66          | 9,56           | 14,84        | 24,40        |              |
| Yayuri                                                                   | 138           | 20,76     | 15,35        | 14,41        | 34,113    | 54,87        | 15,35      | 14,41          | 9,56           | 14,60        | 24,15        |              |
| Azángaro                                                                 | 138           | 20,76     | 15,21        | 14,27        | 34,113    | 54,87        | 15,21      | 14,27          | 9,56           | 14,46        | 24,01        |              |
| San Gabán                                                                | 138           | 20,76     | 14,52        | 13,67        | 34,113    | 54,87        | 14,52      | 13,67          | 9,56           | 13,84        | 23,39        |              |
| Ascaso                                                                   | 138           | 20,76     | 14,73        | 13,80        | 34,113    | 54,87        | 14,73      | 13,80          | 9,56           | 14,03        | 23,54        |              |
| Puerto Maldonado                                                         | 138           | 20,76     | 15,25        | 14,17        | 34,113    | 54,87        | 15,25      | 14,17          | 9,56           | 14,38        | 23,94        |              |
| Julica                                                                   | 138           | 20,76     | 15,42        | 14,44        | 34,113    | 54,87        | 15,42      | 14,44          | 9,56           | 14,64        | 24,19        |              |
| Puno                                                                     | 138           | 20,76     | 15,42        | 14,51        | 34,113    | 54,87        | 15,42      | 14,51          | 9,56           | 14,69        | 24,25        |              |
| Puno                                                                     | 138           | 20,76     | 15,39        | 14,48        | 34,113    | 54,87        | 15,39      | 14,48          | 9,56           | 14,66        | 24,22        |              |
| Callalli                                                                 | 138           | 20,76     | 15,55        | 14,73        | 34,113    | 54,87        | 15,55      | 14,73          | 9,56           | 14,89        | 24,45        |              |
| Arequipa                                                                 | 138           | 20,76     | 15,36        | 14,53        | 34,113    | 54,87        | 15,36      | 14,53          | 9,56           | 14,70        | 24,20        |              |
| Arequipa                                                                 | 220           | 20,76     | 15,42        | 14,56        | 34,113    | 54,87        | 15,42      | 14,56          | 9,56           | 14,73        | 24,29        |              |
| Scobayba                                                                 | 220           | 20,76     | 15,40        | 14,54        | 34,113    | 54,87        | 15,40      | 14,54          | 9,56           | 14,71        | 24,27        |              |
| Cerro Verde                                                              | 138           | 20,76     | 15,47        | 14,60        | 34,113    | 54,87        | 15,47      | 14,60          | 9,56           | 14,77        | 24,33        |              |
| Repatrión                                                                | 138           | 20,76     | 15,55        | 14,62        | 34,113    | 54,87        | 15,55      | 14,62          | 9,56           | 14,81        | 24,36        |              |
| Mollendo                                                                 | 138           | 20,76     | 15,65        | 14,68        | 34,113    | 54,87        | 15,65      | 14,68          | 9,56           | 14,87        | 24,43        |              |
| Mollendo                                                                 | 220           | 20,76     | 15,36        | 14,50        | 34,113    | 54,87        | 15,36      | 14,50          | 9,56           | 14,67        | 24,22        |              |
| Moquegua                                                                 | 138           | 20,76     | 15,38        | 14,51        | 34,113    | 54,87        | 15,38      | 14,51          | 9,56           | 14,68        | 24,23        |              |
| Moquegua                                                                 | 138           | 20,76     | 15,46        | 14,59        | 34,113    | 54,87        | 15,46      | 14,59          | 9,56           | 14,76        | 24,32        |              |
| Botiflaca                                                                | 138           | 20,76     | 15,42        | 14,59        | 34,113    | 54,87        | 15,42      | 14,59          | 9,56           | 14,76        | 24,31        |              |
| Toquepala                                                                | 138           | 20,76     | 15,44        | 14,62        | 34,113    | 54,87        | 15,44      | 14,62          | 9,56           | 14,78        | 24,34        |              |
| Atica                                                                    | 138           | 20,76     | 15,31        | 14,56        | 34,113    | 54,87        | 15,31      | 14,56          | 9,56           | 14,71        | 24,27        |              |
| Arica                                                                    | 66            | 20,76     | 15,24        | 14,53        | 34,113    | 0,5255       | 54,87      | 15,77          | 15,06          | 9,56         | 15,20        | 24,76        |
| Tacna (Los Héroes)                                                       | 220           | 20,76     | 15,47        | 14,58        | 34,113    | 54,87        | 15,47      | 14,58          | 9,56           | 14,76        | 24,31        |              |
| Tacna (Los Héroes)                                                       | 66            | 20,76     | 15,62        | 14,65        | 34,113    | 0,5255       | 54,87      | 16,15          | 15,18          | 9,56         | 15,37        | 24,93        |
| La Nina                                                                  | 220           | 20,76     | 15,18        | 14,24        | 34,113    | 54,87        | 15,18      | 14,24          | 9,56           | 14,43        | 23,98        |              |
| Cotacusi                                                                 | 220           | 20,76     | 14,99        | 14,15        | 34,113    | 54,87        | 14,99      | 14,15          | 9,56           | 14,32        | 23,83        |              |
| Cotacusi                                                                 | 220           | 20,76     | 14,93        | 14,10        | 34,113    | 54,87        | 14,93      | 14,10          | 9,56           | 14,26        | 23,80        |              |
| La Merced                                                                | 220           | 20,76     | 14,84        | 13,84        | 34,113    | 54,87        | 14,84      | 13,84          | 9,56           | 14,04        | 23,59        |              |
| La Roma                                                                  | 220           | 20,76     | 15,05        | 14,37        | 34,113    | 54,87        | 15,05      | 14,37          | 9,56           | 14,51        | 24,06        |              |
| Asia                                                                     | 220           | 20,76     | 15,09        | 14,55        | 34,113    | 54,87        | 15,09      | 14,55          | 9,56           | 14,66        | 24,21        |              |
| Alto Praderas                                                            | 220           | 20,76     | 15,24        | 14,72        | 34,113    | 54,87        | 15,24      | 14,72          | 9,56           | 14,82        | 24,38        |              |
| Alto Praderas                                                            | 220           | 20,76     | 15,08        | 14,44        | 34,113    | 54,87        | 15,08      | 14,44          | 9,56           | 14,57        | 24,12        |              |
| Belizán                                                                  | 220           | 20,76     | 15,21        | 14,22        | 34,113    | 54,87        | 15,21      | 14,22          | 9,56           | 14,41        | 23,96        |              |
| Tintaya Nueva                                                            | 220           | 20,76     | 15,55        | 14,66        | 34,113    | 54,87        | 15,        |                |                |              |              |              |

## PRECIO A NIVEL DE GENERACIÓN

VALORES BASE DEL PNG (Res. 0166-2018-OS/CD)  
FIJACIÓN AL 04/11/2018

ACTUALIZADO AL 04/Noviembre/2018 CON REDONDEO

| TENSIÓN                                                                  |          |             |          |             | TENSIÓN             |          |             |          |             |        |             |             |             |                | Potencia |                |          |         | Energía  |  | Promedio |  |
|--------------------------------------------------------------------------|----------|-------------|----------|-------------|---------------------|----------|-------------|----------|-------------|--------|-------------|-------------|-------------|----------------|----------|----------------|----------|---------|----------|--|----------|--|
| KV                                                                       | PPMo     |             | PEMPo    |             | KV                  | PPM      |             | PEMP     |             | PCSPt  | CPSEE       |             | (PPM+PCSPt) | (PEMP + CPSEE) |          | (PEMP + CPSEE) | Potencia | Energía | Promedio |  |          |  |
|                                                                          | S/KW-mes | ctm. S/KW.h | S/KW-mes | ctm. S/KW.h |                     | S/KW-mes | ctm. S/KW.h | S/KW-mes | ctm. S/KW.h |        | ctm. S/KW.h | ctm. S/KW.h |             |                |          |                |          |         |          |  |          |  |
| Sistema Eléctrico Interconectado Nacional (SEIN) - Res. Barra (Cuadro 1) |          |             |          |             |                     |          |             |          |             |        |             |             |             |                |          |                |          |         |          |  |          |  |
| Zorritos                                                                 | 220      | 21,59       | 19,35    | 15,31       | Zorritos            | 220      | 21,59       | 19,35    | 15,31       | 34,113 |             |             | 55,703      | 19,35          | 15,31    | 9,70           | 16,11    | 25,82   |          |  |          |  |
| Talara                                                                   | 220      | 21,59       | 19,20    | 15,21       | Talara              | 220      | 21,59       | 19,20    | 15,21       | 34,113 |             |             | 55,703      | 19,20          | 15,21    | 9,70           | 16,00    | 25,71   |          |  |          |  |
| Piura Oeste                                                              | 220      | 21,59       | 19,45    | 15,41       | Piura Oeste         | 220      | 21,59       | 19,45    | 15,41       | 34,113 |             |             | 55,703      | 19,45          | 15,41    | 9,70           | 16,21    | 25,92   |          |  |          |  |
| Chiclayo Oeste                                                           | 220      | 21,59       | 19,50    | 15,47       | Chiclayo Oeste      | 220      | 21,59       | 19,50    | 15,47       | 34,113 |             |             | 55,703      | 19,50          | 15,47    | 9,70           | 16,27    | 25,97   |          |  |          |  |
| Carhuauquero                                                             | 220      | 21,59       | 19,22    | 15,23       | Carhuauquero        | 220      | 21,59       | 19,22    | 15,23       | 34,113 |             |             | 55,703      | 19,22          | 15,23    | 9,70           | 16,02    | 25,73   |          |  |          |  |
| Carhuauquero                                                             | 138      | 21,59       | 19,23    | 15,23       | Carhuauquero        | 138      | 21,59       | 19,23    | 15,23       | 34,113 |             |             | 55,703      | 19,23          | 15,23    | 9,70           | 16,03    | 25,73   |          |  |          |  |
| Cutervo                                                                  | 138      | 21,59       | 19,40    | 15,29       | Cutervo             | 138      | 21,59       | 19,40    | 15,29       | 34,113 |             |             | 55,703      | 19,40          | 15,29    | 9,70           | 16,11    | 25,81   |          |  |          |  |
| Jaen                                                                     | 138      | 21,59       | 19,54    | 15,34       | Jaen                | 138      | 21,59       | 19,54    | 15,34       | 34,113 |             |             | 55,703      | 19,54          | 15,34    | 9,70           | 16,18    | 25,88   |          |  |          |  |
| Guadalupe                                                                | 220      | 21,59       | 19,44    | 15,48       | Guadalupe           | 220      | 21,59       | 19,44    | 15,48       | 34,113 |             |             | 55,703      | 19,44          | 15,48    | 9,70           | 16,27    | 25,97   |          |  |          |  |
| Guadalupe                                                                | 60       | 21,59       | 19,47    | 15,50       | Guadalupe           | 60       | 21,59       | 19,47    | 15,50       | 34,113 |             |             | 55,703      | 19,47          | 15,50    | 9,70           | 16,29    | 25,99   |          |  |          |  |
| Cajamarca                                                                | 220      | 21,59       | 19,22    | 15,19       | Cajamarca           | 220      | 21,59       | 19,22    | 15,19       | 34,113 |             |             | 55,703      | 19,22          | 15,19    | 9,70           | 15,99    | 25,69   |          |  |          |  |
| Trujillo Norte                                                           | 220      | 21,59       | 19,37    | 15,47       | Trujillo Norte      | 220      | 21,59       | 19,37    | 15,47       | 34,113 |             |             | 55,703      | 19,37          | 15,47    | 9,70           | 16,25    | 25,95   |          |  |          |  |
| Chimbote 1                                                               | 220      | 21,59       | 19,29    | 15,45       | Chimbote 1          | 220      | 21,59       | 19,29    | 15,45       | 34,113 |             |             | 55,703      | 19,29          | 15,45    | 9,70           | 16,21    | 25,92   |          |  |          |  |
| Chimbote 1                                                               | 138      | 21,59       | 19,29    | 15,41       | Chimbote 1          | 138      | 21,59       | 19,29    | 15,41       | 34,113 |             |             | 55,703      | 19,29          | 15,41    | 9,70           | 16,18    | 25,88   |          |  |          |  |
| Paramonga Nueva                                                          | 220      | 21,59       | 18,99    | 15,26       | Paramonga Nueva     | 220      | 21,59       | 18,99    | 15,26       | 34,113 |             |             | 55,703      | 18,99          | 15,26    | 9,70           | 16,00    | 25,70   |          |  |          |  |
| Paramonga Nueva                                                          | 138      | 21,59       | 18,96    | 15,24       | Paramonga Nueva     | 138      | 21,59       | 18,96    | 15,24       | 34,113 |             |             | 55,703      | 18,96          | 15,24    | 9,70           | 15,98    | 25,68   |          |  |          |  |
| Paramonga Existente                                                      | 138      | 21,59       | 18,88    | 15,20       | Paramonga Existente | 138      | 21,59       | 18,88    | 15,20       | 34,113 |             |             | 55,703      | 18,88          | 15,20    | 9,70           | 15,93    | 25,63   |          |  |          |  |
| Huacho                                                                   | 220      | 21,59       | 19,06    | 15,40       | Huacho              | 220      | 21,59       | 19,06    | 15,40       | 34,113 |             |             | 55,703      | 19,06          | 15,40    | 9,70           | 16,13    | 25,83   |          |  |          |  |
| Zapallal                                                                 | 220      | 21,59       | 19,35    | 15,72       | Zapallal            | 220      | 21,59       | 19,35    | 15,72       | 34,113 |             |             | 55,703      | 19,35          | 15,72    | 9,70           | 16,44    | 26,14   |          |  |          |  |
| Ventanilla                                                               | 220      | 21,59       | 19,40    | 15,81       | Ventanilla          | 220      | 21,59       | 19,40    | 15,81       | 34,113 |             |             | 55,703      | 19,40          | 15,81    | 9,70           | 16,52    | 26,23   |          |  |          |  |
| Lima                                                                     | 220      | 21,59       | 19,45    | 15,87       | Lima                | 220      | 21,59       | 19,45    | 15,87       | 34,113 |             |             | 55,703      | 19,45          | 15,87    | 9,70           | 16,58    | 26,28   |          |  |          |  |
| Cantera                                                                  | 220      | 21,59       | 19,28    | 15,75       | Cantera             | 220      | 21,59       | 19,28    | 15,75       | 34,113 |             |             | 55,703      | 19,28          | 15,75    | 9,70           | 16,45    | 26,15   |          |  |          |  |
| Chilca                                                                   | 220      | 21,59       | 19,30    | 15,82       | Chilca              | 220      | 21,59       | 19,30    | 15,82       | 34,113 |             |             | 55,703      | 19,30          | 15,82    | 9,70           | 16,51    | 26,21   |          |  |          |  |
| Independencia                                                            | 220      | 21,59       | 19,22    | 15,65       | Independencia       | 220      | 21,59       | 19,22    | 15,65       | 34,113 |             |             | 55,703      | 19,22          | 15,65    | 9,70           | 16,36    | 26,06   |          |  |          |  |
| Ica                                                                      | 220      | 21,59       | 19,27    | 15,68       | Ica                 | 220      | 21,59       | 19,27    | 15,68       | 34,113 |             |             | 55,703      | 19,27          | 15,68    | 9,70           | 16,39    | 26,10   |          |  |          |  |
| Marcona                                                                  | 220      | 21,59       | 19,21    | 15,51       | Marcona             | 220      | 21,59       | 19,21    | 15,51       | 34,113 |             |             | 55,703      | 19,21          | 15,51    | 9,70           | 16,25    | 25,95   |          |  |          |  |
| Manitaro                                                                 | 220      | 21,59       | 18,39    | 14,77       | Manitaro            | 220      | 21,59       | 18,39    | 14,77       | 34,113 |             |             | 55,703      | 18,39          | 14,77    | 9,70           | 16,49    | 26,19   |          |  |          |  |
| Huayucachi                                                               | 220      | 21,59       | 18,61    | 14,98       | Huayucachi          | 220      | 21,59       | 18,61    | 14,98       | 34,113 |             |             | 55,703      | 18,61          | 14,98    | 9,70           | 15,70    | 25,40   |          |  |          |  |
| Pachachaca                                                               | 220      | 21,59       | 18,23    | 14,50       | Pachachaca          | 220      | 21,59       | 18,23    | 14,50       | 34,113 |             |             | 55,703      | 18,23          | 14,50    | 9,70           | 15,24    | 24,94   |          |  |          |  |
| Pomacocha                                                                | 220      | 21,59       | 18,04    | 14,26       | Pomacocha           | 220      | 21,59       | 18,04    | 14,26       | 34,113 |             |             | 55,703      | 18,04          | 14,26    | 9,70           | 15,01    | 24,71   |          |  |          |  |
| Huancavelica                                                             | 220      | 21,59       | 18,62    | 15,01       | Huancavelica        | 220      | 21,59       | 18,62    | 15,01       | 34,113 |             |             | 55,703      | 18,62          | 15,01    | 9,70           | 15,73    | 25,43   |          |  |          |  |
| Callahuana                                                               | 220      | 21,59       | 18,91    | 15,45       | Callahuana          | 220      | 21,59       | 18,91    | 15,45       | 34,113 |             |             | 55,703      | 18,91          | 15,45    | 9,70           | 16,14    | 25,84   |          |  |          |  |
| Cajamarquilla                                                            | 220      | 21,59       | 19,30    | 15,76       | Cajamarquilla       | 220      | 21,59       | 19,30    | 15,76       | 34,113 |             |             | 55,703      | 19,30          | 15,76    | 9,70           | 16,46    | 26,17   |          |  |          |  |
| Huallanca                                                                | 138      | 21,59       | 18,72    | 14,99       | Huallanca           | 138      | 21,59       | 18,72    | 14,99       | 34,113 |             |             | 55,703      | 18,72          | 14,99    | 9,70           | 15,73    | 25,43   |          |  |          |  |
| Vizcarra                                                                 | 220      | 21,59       | 18,31    | 14,43       | Vizcarra            | 220      | 21,59       | 18,31    | 14,43       | 34,113 |             |             | 55,703      | 18,31          | 14,43    | 9,70           | 15,20    | 24,90   |          |  |          |  |
| Tingo María                                                              | 220      | 21,59       | 17,75    | 14,12       | Tingo María         | 220      | 21,59       | 17,75    | 14,12       | 34,113 |             |             | 55,703      | 17,75          | 14,12    | 9,70           | 14,84    | 24,54   |          |  |          |  |
| Aguaytia                                                                 | 220      | 21,59       | 17,59    | 13,97       | Aguaytia            | 220      | 21,59       | 17,59    | 13,97       | 34,113 |             |             | 55,703      | 17,59          | 13,97    | 9,70           | 14,69    | 24,39   |          |  |          |  |
| Aguaytia                                                                 | 138      | 21,59       | 17,63    | 14,00       | Aguaytia            | 138      | 21,59       | 17,63    | 14,00       | 34,113 |             |             | 55,703      | 17,63          | 14,00    | 9,70           | 14,72    | 24,42   |          |  |          |  |
| Aguaytia                                                                 | 22,9     | 21,59       | 17,62    | 13,99       | Aguaytia            | 22,9     | 21,59       | 17,62    | 13,99       | 34,113 |             |             | 55,703      | 17,62          | 13,99    | 9,70           | 14,71    | 24,41   |          |  |          |  |
| Pucallpa                                                                 | 138      | 21,59       | 18,39    | 14,46       | Pucallpa            | 138      | 21,59       | 18,39    | 14,46       | 34,113 |             |             | 55,703      | 18,39          | 14,46    | 9,70           | 15,24    | 24,94   |          |  |          |  |
| Pucallpa                                                                 | 60       | 21,59       | 18,41    | 14,47       | Pucallpa            | 60       | 21,59       | 18,41    | 14,47       | 34,113 | 1,427       |             | 55,703      | 19,84          | 15,90    | 9,70           | 16,68    | 26,38   |          |  |          |  |
| Aucayacu                                                                 | 138      | 21,59       | 22,56    | 14,27       | Aucayacu            | 138      | 21,59       | 22,56    | 14,27       | 34,113 |             |             | 55,703      | 22,56          | 14,27    | 9,70           | 15,92    | 25,62   |          |  |          |  |
| Tocache                                                                  | 138      | 21,59       | 22,43    | 14,71       | Tocache             | 138      | 21,59       | 22,43    | 14,71       | 34,113 |             |             | 55,703      | 22,43          | 14,71    | 9,70           | 16,25    | 25,95   |          |  |          |  |
| Tingo María                                                              | 138      | 21,59       | 17,50    | 14,05       | Tingo María         | 138      | 21,59       | 17,50    | 14,05       | 34,113 |             |             | 55,703      | 17,50          | 14,05    | 9,70           | 14,74    | 24,44   |          |  |          |  |
| Huánuco                                                                  | 138      | 21,59       | 17,89    | 14,09       | Huánuco             | 138      | 21,59       | 17,89    | 14,09       | 34,113 |             |             | 55,703      | 17,89          | 14,09    | 9,70           | 14,85    | 24,55   |          |  |          |  |
| Paragsha II                                                              | 138      | 21,59       | 17,98    | 13,95       | Paragsha II         | 138      | 21,59       | 17,98    | 13,95       | 34,113 |             |             | 55,703      | 17,98          | 13,95    | 9,70           | 14,75    | 24,45   |          |  |          |  |
| Paragsha                                                                 | 220      | 21,59       | 18,01    | 13,95       | Paragsha            | 220      | 21,59       | 18,01    | 13,95       | 34,113 |             |             | 55,703      | 18,01          | 13,95    | 9,70           | 14,76    | 24,46   |          |  |          |  |
| Yaupi                                                                    | 138      | 21,59       | 17,76    | 13,72       | Yaupi               | 138      | 21,59       | 17,76    | 13,72       | 34,113 |             |             | 55,703      | 17,76          | 13,72    | 9,70           | 14,52    | 24,23   |          |  |          |  |
| Yuncan                                                                   | 138      | 21,59       | 17,85    | 13,79       | Yuncan              | 138      | 21,59       | 17,85    | 13,79       | 34,113 |             |             | 55,703      | 17,85          | 13,79    | 9,70           | 14,60    | 24,30   |          |  |          |  |
| Yuncan                                                                   | 220      | 21,59       | 17,90    | 13,81       | Yuncan              | 220      | 21,59       | 17,90    | 13,81       | 34,113 |             |             | 55,703      | 17,90          | 13,81    | 9,70           | 14,62    | 24,33   |          |  |          |  |
| Oroya Nueva                                                              | 220      | 21,59       | 18,15    | 14,04       | Oroya Nueva         | 220      | 21,59       | 18,15    | 14,04       | 34,113 |             |             | 55,703      | 18,15          | 14,04    | 9,70           | 14,86    | 24,56   |          |  |          |  |
| Oroya Nueva                                                              | 138      | 21,59       | 18,11    | 13,92       | Oroya Nueva         | 138      | 21,59       | 18,11    | 13,92       | 34,113 |             |             | 55,703      | 18,11          | 13,92    | 9,70           | 14,75    | 24,45   |          |  |          |  |
| Oroya Nueva                                                              | 50       | 21,59       | 18,14    | 14,09       | Oroya Nueva         | 50       | 21,59       | 18,14    | 14,09       | 34,113 |             |             | 55,703      | 18,14          | 14,09    | 9,70           | 14,90    | 24,60   |          |  |          |  |
| Carhuamayo                                                               | 138      | 21,59       | 17,99    | 13,90       | Carhuamayo          | 138      | 21,59       | 17,99    | 13,90       | 34,113 |             |             | 55,703      | 17,99          | 13,90    | 9,70           | 14,71    | 24,42   |          |  |          |  |
| Carhuamayo Nueva                                                         | 220      | 21,59       | 17,99    | 13,88       | Carhuamayo Nueva    | 220      | 21,59       | 17,99    | 13,88       | 34,113 |             |             | 55,703      | 17,99          | 13,88    | 9,70           | 14,70    | 24,40   |          |  |          |  |
| Caripa                                                                   | 138      | 21,59       | 18,05    | 13,88       | Caripa              | 138      | 21,59       | 18,05    | 13,88       | 34,113 |             |             | 55,703      | 18,05          | 13,88    | 9,70           | 14,71    | 24,41   |          |  |          |  |
| Desierto                                                                 | 220      | 21,59       | 19,29    | 15,73       | Desierto            | 220      | 21,59       | 19,29    | 15,73       | 34,113 |             |             | 55,703      | 19,29          | 15,73    | 9,70           | 16,44    | 26,14   |          |  |          |  |
| Condorcocha                                                              | 138      | 21,59       | 18,07    | 13,89       | Condorcocha         | 138      | 21,59       | 18,07    | 13,89       | 34,113 |             |             | 55,703      | 18,07          | 13,89    | 9,70           | 14,72    | 24,42   |          |  |          |  |
| Condorcocha                                                              | 44       | 21,59       | 18,07    | 13,89       | Condorcocha         | 44       | 21,59       | 18,07    | 13,89       | 34,113 |             |             | 55,703      | 18,07          | 13,89    | 9,70           | 14,72    | 24,42   |          |  |          |  |
| Machupicchu                                                              | 138      | 21,59       | 18,91    | 15,17       | Machupicchu         | 138      | 21,59       | 18,91    | 15,17       | 34,113 |             |             | 55,703      | 18,91          | 15,17    | 9,70           | 15,91    | 25,62   |          |  |          |  |
| Cachimayo                                                                | 138      | 21,59       | 19,44    | 15,54       | Cachimayo           | 138</    |             |          |             |        |             |             |             |                |          |                |          |         |          |  |          |  |

# PEAJES DE CONEXIÓN AL SISTEMA PRINCIPAL DE TRANSMISIÓN (PCSPT)

VALORES BASE DE LOS PEAJES (Res. 056-2018-OS/CD)

Actualizado al 04/Noviembre/2018 con redondeo

| Sistema de Transmisión                                                                        |                                                                   | PCSPT + PTSPT (S/./kW-mes) |         |             |
|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------|---------|-------------|
|                                                                                               |                                                                   | Valor Base (Res. Barra)    | FAPCSPT | Actualizado |
| SPT de REP                                                                                    |                                                                   | 2,930                      | 1,0427  | 3,055       |
| SPT de REP (Ampliacion 13)                                                                    |                                                                   | 0,000                      | 1,0427  | 0,000       |
| SPT de REP (Ampliacion 17)                                                                    |                                                                   | 0,000                      | 1,0427  | 0,000       |
| SPT de REP (Ampliacion 18.1)                                                                  |                                                                   | 0,007                      | 0,0000  | 0,000       |
| SPT de REP (Ampliacion 18.2)                                                                  |                                                                   | 0,018                      | 0,0000  | 0,000       |
| SPT de REP (Ampliacion 18.3)                                                                  |                                                                   | 0,012                      | 0,0000  | 0,000       |
| SPT de REP (Ampliacion 18.4)                                                                  |                                                                   | 0,003                      | 0,0000  | 0,000       |
| SPT de Egemsa                                                                                 |                                                                   | 0,002                      | 1,0353  | 0,002       |
| SPT de San Gabán                                                                              |                                                                   | 0,004                      | 1,0311  | 0,004       |
| SPT de Antamina                                                                               |                                                                   | 0,005                      | 1,0349  | 0,005       |
| SPT de Eteselva                                                                               |                                                                   | 0,079                      | 1,0588  | 0,084       |
| SPT de Redesur                                                                                |                                                                   | 0,629                      | 1,0427  | 0,656       |
| SPT de Transmataro (Contrato BOOT, Addendum N° 5 y Addendum N° 10)                            |                                                                   | 1,687                      | 1,0427  | 1,759       |
| SPT de Transmataro (Addendum N° 8)                                                            |                                                                   | 0,546                      | 1,0427  | 0,569       |
| SPT de Transmataro (Ampliacion Adicional 1)                                                   |                                                                   | 0,043                      | 1,0427  | 0,045       |
| SPT de ISA (contrato BOOT, ampliación 1 y 2)                                                  |                                                                   | 0,436                      | 1,0427  | 0,455       |
| SGT Línea Chilca - Zapallal (Tamos 1 y 2)                                                     |                                                                   | 0,455                      | 1,0427  | 0,474       |
| SGT Líneas Carhuamayo - Cajamarca 220 kV (Tamos 1, 2, 3 y4) y SVC-Cajamarca                   | LT 220 kV Carhuamayo-Paragsha y subestaciones asociadas – Tramo 1 | 0,072                      | 1,0427  | 0,075       |
|                                                                                               | L.T. Paragsha-Conococha y subestaciones asociadas – Tramo 2       | 0,064                      | 1,0427  | 0,067       |
|                                                                                               | Ampliación de la Subestación Cajamarca 220 kV – SVC               | 0,082                      | 1,0427  | 0,086       |
|                                                                                               | LT 220 kV Conococha-Huallanca y subestaciones asociadas – Tramo 3 | 0,179                      | 1,0427  | 0,187       |
|                                                                                               | LT 220 kV Huallanca-Cajamarca y subestaciones asociadas - Tramo 4 | 0,331                      | 1,0427  | 0,345       |
| SGT Línea Talara Piura 220 kV (2do circuito)                                                  |                                                                   | 0,100                      | 1,0427  | 0,104       |
| SGT Línea Zapallal – Trujillo 500 kV                                                          |                                                                   | 1,149                      | 1,0427  | 1,198       |
| SGT Línea Pomacocha - Carhuamayo 220 kV                                                       |                                                                   | 0,104                      | 1,0427  | 0,108       |
| SGT Línea Socabaya - Tintaya 220 kV                                                           |                                                                   | 0,288                      | 1,0427  | 0,300       |
| SGT Línea Chilca – Marcona –Montalvo 500 kV                                                   |                                                                   | 2,089                      | 1,0427  | 2,178       |
| SGT Línea Carhuaquero- Cajamarca Norte- Cáclic- Moyobamba 220 kV (1)                          |                                                                   | 0,752                      | 1,0427  | 0,784       |
| SGT Línea Machupicchu–Quencoro–Onocora–Tintaya 220 kV (1)                                     |                                                                   | 0,685                      | 0,0000  | 0,000       |
| SGT Línea Trujillo - Chiclayo 500 KV                                                          |                                                                   | 0,680                      | 1,0427  | 0,709       |
| SGT Línea Machupicchu - Abancay - Cotaruse 220 kV (1)                                         |                                                                   | 0,500                      | 1,0427  | 0,521       |
| SGT Línea 500 kV Mantaro- Marcona-Socabaya-Montalvo y Subestaciones Asociadas (1)             |                                                                   | 1,823                      | 1,0427  | 1,901       |
| Subestacion Carapongo y enlaces de conexión (1er etapa)                                       |                                                                   | 0,279                      | 0,0000  | 0,000       |
| Refuerzo de Línea Trujillo - Chiclayo                                                         |                                                                   | 0,038                      | 1,0427  | 0,040       |
| Línea Azangaro-Juliaca-Puno 220 kV                                                            |                                                                   | 0,244                      | 1,0427  | 0,254       |
| Cargo Unitario por Compensación por Seguridad de Suministro (3)                               | No RF                                                             | 0,264                      | 1,0377  | 0,274       |
|                                                                                               | RF de Talara                                                      | 0,815                      | 1,0613  | 0,865       |
|                                                                                               | RF de Ilo                                                         | 1,798                      | 1,0412  | 1,872       |
|                                                                                               | RF de Pucallpa                                                    | 0,189                      | 1,0423  | 0,197       |
|                                                                                               | RF de Puerto Maldonado                                            | 0,109                      | 1,0367  | 0,113       |
|                                                                                               | RF de Puerto Eten                                                 | 0,902                      | 1,0976  | 0,990       |
| Cargo Unitario por CVOA-CMg                                                                   |                                                                   | 0,000                      | 0,0000  | 0,000       |
| Cargo Unitario por CVOA-RSC                                                                   |                                                                   | 0,000                      | 0,0000  | 0,000       |
| Cargo por Prima                                                                               | Cogeneración Paramonga                                            | 0,101                      | 1,9703  | 0,199       |
|                                                                                               | C.H. Santa Cruz II                                                | 0,078                      | 1,0513  | 0,082       |
|                                                                                               | C.H. Santa Cruz I                                                 | 0,068                      | 1,1324  | 0,077       |
|                                                                                               | C.H. Poechos 2                                                    | 0,107                      | 0,8692  | 0,093       |
|                                                                                               | C.H. Roncador                                                     | 0,046                      | 1,3696  | 0,063       |
|                                                                                               | C.H. Carhuaquero IV                                               | 0,190                      | 1,1368  | 0,216       |
|                                                                                               | C.H. Caña Brava                                                   | 0,043                      | 1,4419  | 0,062       |
|                                                                                               | C.H. La Joya                                                      | 0,123                      | 1,1707  | 0,144       |
|                                                                                               | C.T. Huaycoloro                                                   | 0,122                      | 1,1393  | 0,139       |
|                                                                                               | C. H. Purmacana                                                   | 0,010                      | 0,0000  | 0,000       |
|                                                                                               | C.H. Huasahuasi I                                                 | 0,102                      | 1,0686  | 0,109       |
|                                                                                               | C.H. Huasahuasi II                                                | 0,100                      | 1,1700  | 0,117       |
|                                                                                               | C.H. Nuevo Imperial                                               | 0,042                      | 1,2381  | 0,052       |
|                                                                                               | CS Repartición Solar 20T                                          | 0,359                      | 1,0585  | 0,380       |
|                                                                                               | CS Majes Solar 20T                                                | 0,360                      | 1,0528  | 0,379       |
|                                                                                               | CS Tacna Solar 20T                                                | 0,445                      | 1,0719  | 0,477       |
|                                                                                               | CS Panamericana Solar 20T                                         | 0,464                      | 1,0582  | 0,491       |
|                                                                                               | C.H. Yanapampa                                                    | 0,045                      | 1,0444  | 0,047       |
|                                                                                               | C.H. Las Pizarras                                                 | 0,204                      | 1,0784  | 0,220       |
|                                                                                               | C.E Marcona                                                       | 0,347                      | 1,0692  | 0,371       |
|                                                                                               | C.E. Talara                                                       | 0,403                      | 1,0571  | 0,426       |
|                                                                                               | C.E. Cupisnique                                                   | 1,006                      | 1,0596  | 1,066       |
|                                                                                               | C.H. Runatullo III                                                | 0,244                      | 1,1557  | 0,282       |
|                                                                                               | C.H. Runatullo II                                                 | 0,178                      | 1,1067  | 0,197       |
|                                                                                               | CSF Moquegua FV                                                   | 0,212                      | 1,0708  | 0,227       |
|                                                                                               | C.H. Canchayillo                                                  | 0,031                      | 1,2581  | 0,039       |
|                                                                                               | C.T. La Gringa V                                                  | 0,048                      | 1,2500  | 0,060       |
|                                                                                               | C.H. Chancay                                                      | 0,241                      | 0,0000  | 0,000       |
|                                                                                               | C.H. Rucuy                                                        | 0,111                      | 0,0000  | 0,000       |
|                                                                                               | C.E. Tres Hermanas                                                | 0,971                      | 1,1565  | 1,123       |
|                                                                                               | C.H. Potrero                                                      | 0,143                      | 0,2517  | 0,036       |
|                                                                                               | C.H. Yarucaya                                                     | 0,371                      | 0,9245  | 0,343       |
|                                                                                               | C.S. Rubi                                                         | 0,863                      | 1,0127  | 0,874       |
|                                                                                               | C.H. Renovandes H1                                                | 0,285                      | 1,1123  | 0,317       |
|                                                                                               | C.S. Intipampa                                                    | 0,197                      | 1,1421  | 0,225       |
| Cargo Unitario por FISE (3)                                                                   |                                                                   | 0,473                      | 1,0825  | 0,512       |
| Cargo Unitario por CASEI                                                                      |                                                                   | 0,000                      | 0,0000  | 0,000       |
| Cargo Unitario por CASEge (5)                                                                 |                                                                   | 0,000                      | 0,0000  | 0,000       |
| Cargo Unitario por Generación Adicional (6)                                                   | Usuarios Regulados                                                | 0,000                      | 0,0000  | 0,000       |
| Cargo Unitario por Capacidad de Generación Eléctrica - CT Puerto Bravo (8)                    |                                                                   | 2,1770                     | 1,0919  | 2,377       |
| Cargo Unitario por Capacidad de Generación Eléctrica - CT Planta N° 2 Ilo (8)                 |                                                                   | 1,7870                     | 1,0509  | 1,878       |
| Cargo Unitario por Compensación de la Confiabilidad en la Cadena de Suministro de Energía (4) |                                                                   | 0,1220                     | 1,1230  | 0,137       |

PCSPT = 34,113

# Factores de Expansión de Pérdidas Medias Media Tension (Potencia y Energía)

Factores de Pérdidas en los Sistemas Secundarios de Transmisión por Áreas de Demanda según nivel de Tensión

## Factor de Expansión de Pérdidas (Establecido en la Resolución de Peajes Secundarios)

### FPMdP

### FPMdE

| Área de Demanda | MAT    | MAT/AT | AT     | AT/MT  | MAT    | MAT/AT | AT     | AT/MT  |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1               | 1,0000 | 1,0031 | 1,0174 | 1,0029 | 1,0000 | 1,0035 | 1,0168 | 1,0034 |
| 2               | 1,0000 | 1,0034 | 1,0128 | 1,0047 | 1,0000 | 1,0036 | 1,0089 | 1,0043 |
| 3               | 1,0035 | 1,0047 | 1,0117 | 1,0025 | 1,0031 | 1,0045 | 1,0103 | 1,0029 |
| 4               | 1,0212 | 1,0037 | 1,0129 | 1,0031 | 1,0139 | 1,0032 | 1,0073 | 1,0041 |
| 5               | 1,0007 | 1,0043 | 1,0246 | 1,0046 | 1,0005 | 1,0043 | 1,0149 | 1,0047 |
| 6               | 1,0014 | 1,0045 | 1,0054 | 1,0059 | 1,0012 | 1,0044 | 1,0043 | 1,0064 |
| 7               | 1,0022 | 1,0081 | 1,0069 | 1,0056 | 1,0023 | 1,0087 | 1,0067 | 1,0062 |
| 8               | 1,0000 | 1,0033 | 1,0171 | 1,0039 | 1,0000 | 1,0034 | 1,0233 | 1,0044 |
| 9               | 1,0021 | 1,0050 | 1,0122 | 1,0046 | 1,0023 | 1,0063 | 1,0138 | 1,0063 |
| 10              | 1,0065 | 1,0039 | 1,0126 | 1,0035 | 1,0013 | 1,0034 | 1,0053 | 1,0039 |
| 11              | 1,0011 | 1,0047 | 1,0047 | 1,0063 | 1,0012 | 1,0056 | 1,0043 | 1,0047 |
| 12              | 1,0002 | 1,0033 | 1,0000 | 1,0004 | 1,0003 | 1,0047 | 1,0000 | 1,0008 |
| 13              | 1,0000 | 1,0000 | 1,0121 | 1,0057 | 1,0000 | 1,0000 | 1,0088 | 1,0057 |
| 14              | 1,0000 | 1,0000 | 1,0039 | 1,0060 | 1,0000 | 1,0000 | 1,0032 | 1,0055 |

Nota: Factores de Pérdidas Medias Individuales con la Res. 129-2017-OS/CD

## Factor de expansión de Pérdidas aplicable para expandir hasta MT (acumulados calculados) (1/)

### FPMdP

### FPMdE

| Área de Demanda | Desde MAT | Desde AT (1/) | Desde MT |
|-----------------|-----------|---------------|----------|
| 1               | 1,0235    | 1,0204        | 1,0000   |
| 2               | 1,0210    | 1,0176        | 1,0000   |
| 3               | 1,0226    | 1,0142        | 1,0000   |
| 4               | 1,0414    | 1,0160        | 1,0000   |
| 5               | 1,0345    | 1,0293        | 1,0000   |
| 6               | 1,0173    | 1,0113        | 1,0000   |
| 7               | 1,0230    | 1,0125        | 1,0000   |
| 8               | 1,0244    | 1,0211        | 1,0000   |
| 9               | 1,0241    | 1,0169        | 1,0000   |
| 10              | 1,0267    | 1,0161        | 1,0000   |
| 11              | 1,0169    | 1,0110        | 1,0000   |
| 12              | 1,0039    | 1,0004        | 1,0000   |
| 13              | 1,0179    | 1,0179        | 1,0000   |
| 14              | 1,0099    | 1,0099        | 1,0000   |

| Desde MAT | Desde AT (1/) | Desde MT |
|-----------|---------------|----------|
| 1,0238    | 1,0203        | 1,0000   |
| 1,0169    | 1,0132        | 1,0000   |
| 1,0209    | 1,0132        | 1,0000   |
| 1,0288    | 1,0114        | 1,0000   |
| 1,0246    | 1,0197        | 1,0000   |
| 1,0164    | 1,0107        | 1,0000   |
| 1,0241    | 1,0129        | 1,0000   |
| 1,0313    | 1,0278        | 1,0000   |
| 1,0290    | 1,0202        | 1,0000   |
| 1,0140    | 1,0092        | 1,0000   |
| 1,0159    | 1,0090        | 1,0000   |
| 1,0058    | 1,0008        | 1,0000   |
| 1,0146    | 1,0146        | 1,0000   |
| 1,0087    | 1,0087        | 1,0000   |