

## TARIFFS 2006 FOR GRID USE AND ANCILLARY SERVICES

The price conditions for grid use and ancillary services, as stipulated by the decision of the CREG dated December 8<sup>th</sup> 2005 and renewed by the decisions of the CREG dated March 10<sup>th</sup> 2006, May 30<sup>th</sup> 2006 and September 26<sup>th</sup> 2006, are in application from January 1<sup>st</sup> 2006 until December 31<sup>th</sup> 2006.

On proposition of Elia and after approval of the CREG, the following modifications have been applied to the tariff structure in application from January 1<sup>st</sup> 2006 for clients directly connected to the Elia grid.

- The introduction of a new term “additional power” proportional to the annual peak.
- The introduction of the concept gross limited<sup>1</sup> energy as basis for the calculation of the term for the following services
  - o System management
  - o Primary frequency control, secondary control of the equilibrium of the control area and black-start service
  - o Voltage control and for reactive power

This modification in the tariff structure has no impact on users directly connected to the Elia grid without local generation.

Unless stated otherwise, tariff periods used for the application of tariffs are : « Peak hours », « Offpeak hours », « Weekend », as defined below. Winter corresponds to the months January to March, and October to December. Summer corresponds to April to September.

| Day           | Hour          | Peak hours | Off peak hours | Weekend |
|---------------|---------------|------------|----------------|---------|
| Monday-Friday | 0 to 7 hour   |            | ✓              |         |
| Monday-Friday | 7 to 22 hour  | ✓          |                |         |
| Monday-Friday | 22 to 24 hour |            | ✓              |         |
| Saturday      | 0 to 7 hour   |            | ✓              |         |
| Saturday      | 7 to 24 hour  |            |                | ✓       |
| Sunday        | 0 to 22 hour  |            |                | ✓       |
| Sunday        | 22 to 24 hour |            | ✓              |         |

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<sup>1</sup> For the definition, see further in this document D. Definitions relative to energy.

## **A. TARIFF FOR GRID USE**

1° Administrative fees - Not applicable.

2° Tariff for power subscription and additional power, according to the “standard formula”

### **a) Tariff for power subscription**

**Table 1 :** *Tariff for power subscription according to the “standard formula”*

|                                                         |                         | Clients directly<br>connected to the Elia<br>grid | Grid Operators          |
|---------------------------------------------------------|-------------------------|---------------------------------------------------|-------------------------|
|                                                         |                         | Tariff<br>(€/kW.period)                           | Tariff<br>(€/kW.period) |
| <b>On the 380/220/150 kV network</b>                    |                         |                                                   |                         |
| Yearly subscription                                     |                         | 10,1943000                                        | 12,7956000              |
| Monthly subscription                                    | Winter – Peak hours     | 0,6081000                                         | 0,7633000               |
|                                                         | Winter – Off peak hours | 0,3688000                                         | 0,4629000               |
|                                                         | Winter - Weekend        | 0,2406000                                         | 0,3019000               |
|                                                         | Summer – Peak hours     | 0,4802000                                         | 0,6028000               |
|                                                         | Summer – Off peak hours | 0,3242000                                         | 0,4070000               |
|                                                         | Summer - Weekend        | 0,2132000                                         | 0,2675000               |
| <b>At transformer output to the 70/36/30 kV network</b> |                         |                                                   |                         |
| Yearly subscription                                     |                         | 15,0154000                                        | 18,9030000              |
| Monthly subscription                                    | Winter – Peak hours     | 0,9093000                                         | 1,1447000               |
|                                                         | Winter – Off peak hours | 0,5425000                                         | 0,6830000               |
|                                                         | Winter - Weekend        | 0,3508000                                         | 0,4416000               |
|                                                         | Summer – Peak hours     | 0,7051000                                         | 0,8877000               |
|                                                         | Summer – Off peak hours | 0,4708000                                         | 0,5927000               |
|                                                         | Summer - Weekend        | 0,3093000                                         | 0,3894000               |
| <b>On the 70/36/30 kV network</b>                       |                         |                                                   |                         |
| Yearly subscription                                     |                         | 22,3362000                                        | 28,154000               |
| Monthly subscription                                    | Winter – Peak hours     | 1,3665000                                         | 1,7223000               |
|                                                         | Winter – Off peak hours | 0,8109000                                         | 1,0220000               |
|                                                         | Winter - Weekend        | 0,5176000                                         | 0,6524000               |
|                                                         | Summer – Peak hours     | 1,0372000                                         | 1,3072000               |
|                                                         | Summer – Off peak hours | 0,6887000                                         | 0,8680000               |
|                                                         | Summer - Weekend        | 0,4514000                                         | 0,5689000               |
| <b>At transformer output to medium voltage</b>          |                         |                                                   |                         |
| Yearly subscription                                     |                         |                                                   | 31,1823000              |
| Monthly subscription                                    | Winter – Peak hours     |                                                   | 1,9097000               |
|                                                         | Winter – Off peak hours |                                                   | 1,1337000               |
|                                                         | Winter - Weekend        |                                                   | 0,7234000               |
|                                                         | Summer – Peak hours     |                                                   | 1,4411000               |
|                                                         | Summer – Off peak hours |                                                   | 0,9555000               |
|                                                         | Summer - Weekend        |                                                   | 0,6277000               |

Remark:

For off-take covered by local generation, the price for the subscribed power is reduced with 30%. This reduction is applied to a maximum power of 75 MW. This contractual formula is only applicable for yearly subscriptions and is limited to 1000 hours per year..

b) Tariff for additional power

**Table 2 :** *Tariff proportional to the annual peak according to the “standard formula”*

|                                                               | Clients directly connected to the Elia grid | Grid Operators     |
|---------------------------------------------------------------|---------------------------------------------|--------------------|
|                                                               | Tariff (€/kW.year)                          | Tariff (€/kW.year) |
| <b>On the 380/220/150 kV network In 380/220/150 kV-netten</b> | 2,2240000                                   |                    |
| <b>At transformer output to the 70/36/30 kV network</b>       | 2,9516000                                   |                    |
| <b>On the 70/36/30 kV network</b>                             | 4,6808000                                   |                    |
| <b>At transformer output to medium voltage</b>                |                                             |                    |

The annual peak is monthly determined for a running year (month M up to month M-11).

For additional monthly power that is registered by Elia ex-post, the prices equal 115% of the price for power subscription at the same point, according to the monthly scheme, during the corresponding period.

3° Tariff for power subscription and additional power, according to the “Day / Night and weekend formula”

For the application of the tariffs for subscribed power and complementary power, according to the « Day / Night and weekend » formula, the tariff periods « Day » and « Night and weekend » have been defined as follows:

- Day : from 8h to 20h, Monday to Friday (60 hours per week)
- Night and week-end : from 20h to 8h (Monday to Friday) + Saturday and Sunday, whole day (108 hours per week)

This formula will be applied under following conditions :

- For each access point, the Access holder chooses between the « standard formula » or the « Day / Night and weekend » formula. These possibilities are mutually exclusive. The choice of the « Day : Night and weekend » is valid for one year.
- The net offtake from the concerned access point has shown a profile (during the preceding year of the choice), such that :
  - The maximal power net offtaken during “Day” hours was smaller than the maximal power net offtaken during “Night and Week-end”;
  - The energy net offtaken during “Day” hours is smaller than 25% of the energy net offtaken during “Night and Week-end” hours.

a) Tariff for power subscription

**Table 3 :** *Tariff for power subscription, according to the « Day / Night and weekend » formula*

|                                                         |                             | Tariff<br>( €/kW.period) |
|---------------------------------------------------------|-----------------------------|--------------------------|
| <b>On the 380/220/150 kV network</b>                    |                             |                          |
| Yearly subscription                                     | Day                         | 3,9879000                |
|                                                         | Night and week-end          | 6,2486000                |
| Monthly subscription                                    | Winter - Day                | 0,4885000                |
|                                                         | Winter - Night and week-end | 0,7339000                |
|                                                         | Summer - Day                | 0,3858000                |
|                                                         | Summer - Night and week-end | 0,6360000                |
| <b>At transformer output to the 70/36/30 kV network</b> |                             |                          |
| Yearly subscription                                     | Day                         | 5,9406000                |
|                                                         | Night and week-end          | 9,1818000                |
| Monthly subscription                                    | Winter - Day                | 0,7327000                |
|                                                         | Winter - Night and week-end | 1,0828000                |
|                                                         | Summer - Day                | 0,5681000                |
|                                                         | Summer - Night and week-end | 0,9277000                |
| <b>On the 70/36/30 kV network</b>                       |                             |                          |
| Yearly subscription                                     | Day                         | 8,8885000                |
|                                                         | Night and week-end          | 13,6327000               |
| Monthly subscription                                    | Winter - Day                | 1,1023000                |
|                                                         | Winter - Night and week-end | 1,6151000                |
|                                                         | Summer - Day                | 0,8366000                |
|                                                         | Summer - Night and week-end | 1,3586000                |
| <b>At transformer output to medium voltage</b>          |                             |                          |
| Yearly subscription                                     | Day                         | 9,8469000                |
|                                                         | Night and week-end          | 15,0990000               |
| Monthly subscription                                    | Winter - Day                | 1,2222000                |
|                                                         | Winter - Night and week-end | 1,7912000                |
|                                                         | Summer - Day                | 0,9223000                |
|                                                         | Summer - Night and week-end | 1,4971000                |

b) Tariff for additional power

**Table 4 :** *Tariff proportional to the annual peak according to the « Day / Night and weekend » formula*

|                                                               | Clients directly connected to the Elia grid |
|---------------------------------------------------------------|---------------------------------------------|
|                                                               | Tariff (€/kW.year)                          |
| <b>On the 380/220/150 kV network In 380/220/150 kV-netten</b> | 2,2240000                                   |
| <b>At transformer output to the 70/36/30 kV network</b>       | 2,9516000                                   |
| <b>On the 70/36/30 kV network</b>                             | 4,6808000                                   |
| <b>At transformer output to medium voltage</b>                |                                             |

The annual peak is monthly determined for a running year (month M up to month M-11).

For additional monthly power that is registered by Elia ex-post, the prices equal 115% of the price for power subscription at the same point, according to the monthly scheme, during the corresponding period.

4° Tariff for System management

**Table 5 :** *Tariff for System management*

|                                                               | Tariff (€/kWh gross limited <sup>2</sup> ) |
|---------------------------------------------------------------|--------------------------------------------|
| <b>On the 380/220/150 kV network In 380/220/150 kV-netten</b> | 0,0003735                                  |
| <b>At transformer output to the 70/36/30 kV network</b>       | 0,0005342                                  |
| <b>On the 70/36/30 kV network</b>                             | 0,0008210                                  |
| <b>At transformer output to medium voltage</b>                | 0,0008902                                  |

Remark:

- Extra tariff related to the non-respect of an accepted nomination for injection or offtake is equal to 0 €/MW.

<sup>2</sup> For the definition, see further in this document D. Definitions relative to energy.

## **B. TARIFFS FOR ANCILLARY SERVICES**

1° Tariff for primary frequency control, secondary control of the equilibrium of the control area and black-start service

**Table 6 :** *Tariff for primary frequency control, secondary control of the equilibrium of the control area and black-start service*

|                                                         | Tariff<br>(€/kWh gross limited <sup>3</sup> ) |
|---------------------------------------------------------|-----------------------------------------------|
| <b>On the 380/220/150 kV network</b>                    | 0,0010316                                     |
| <b>At transformer output to the 70/36/30 kV network</b> | 0,0010316                                     |
| <b>On the 70/36/30 kV network</b>                       | 0,0010316                                     |
| <b>At transformer output to medium voltage</b>          | 0,0010316                                     |

2° Tariff for voltage control and for reactive power

**Table 7 :** *Tariff for voltage control and for reactive power*

|                                                               | Tariff<br>(€/kWh gross limited <sup>3</sup> ) |
|---------------------------------------------------------------|-----------------------------------------------|
| <b>On the 380/220/150 kV network In 380/220/150 kV-netten</b> | 0,0002034                                     |
| <b>At transformer output to the 70/36/30 kV network</b>       | 0,0002034                                     |
| <b>On the 70/36/30 kV network</b>                             | 0,0002034                                     |
| <b>At transformer output to medium voltage</b>                | 0,0002246                                     |

Remark:

- Elia System Operator makes quarter-hourly deliveries of reactive power that exceed  $t_g \varphi = 0,329$  per off take point. This leads to a term for supplementary deliveries of reactive energy, according to the article 209 §4 and §5 of the Technical Code.

**Table 8 :** *Tariff for supplementary deliveries of reactive energy*

|                                                               | Tariff<br>(€/kVArh) |
|---------------------------------------------------------------|---------------------|
| <b>On the 380/220/150 kV network In 380/220/150 kV-netten</b> | 0,0025000           |
| <b>At transformer output to the 70/36/30 kV network</b>       | 0,0050000           |
| <b>On the 70/36/30 kV network</b>                             | 0,0050000           |
| <b>At transformer output to medium voltage</b>                | 0,0060000           |

<sup>3</sup> For the definition, see further in this document D. Definitions relative to energy.

- In the event that the offtaken active energy does not exceed, on a quarterly basis, 10% of the valid subscriptions at any given point, the additional delivery of reactive energy will be defined as the excess in respect of 32,9% of the 10% of the valid subscriptions at that point.

### 3° Tariff for congestion management

**Table 9 :** *Tariff for congestion management*

|                                                               | Tariff<br>(€/kWh net offtaken <sup>4</sup> ) |
|---------------------------------------------------------------|----------------------------------------------|
| <b>On the 380/220/150 kV network In 380/220/150 kV-netten</b> | 0,0000532                                    |
| <b>At transformer output to the 70/36/30 kV network</b>       | 0,0000662                                    |
| <b>On the 70/36/30 kV network</b>                             | 0,0000662                                    |
| <b>At transformer output to medium voltage</b>                | 0,0000662                                    |

### 4° Tariff for compensation of grid losses

**Table 10 :** *Tariff for compensation of grid losses (in €/kWh net offtaken<sup>4</sup>)*

|                                                         | Winter     |                |           | Summer     |                |           |
|---------------------------------------------------------|------------|----------------|-----------|------------|----------------|-----------|
|                                                         | Peak hours | Off peak hours | Week-end  | Peak hours | Off peak hours | Week-end  |
| <b>On the 380/220/150 kV network</b>                    | 0,0000000  | 0,0000000      | 0,0000000 | 0,0000000  | 0,0000000      | 0,0000000 |
| <b>At transformer output to the 70/36/30 kV network</b> | 0,0001122  | 0,0000460      | 0,0000373 | 0,0001078  | 0,0000433      | 0,0000349 |
| <b>On the 70/36/30 kV network</b>                       | 0,0005415  | 0,0002304      | 0,0001929 | 0,0005273  | 0,0002120      | 0,0001738 |
| <b>At transformer output to medium voltage</b>          | 0,0005612  | 0,0002385      | 0,0001971 | 0,0005561  | 0,0002274      | 0,0001861 |

Note : There are no tariffs for compensation of losses on the 380/220/150 kV networks. Losses on these networks have to be compensated by Access Responsible Parties, in agreement with their balancing responsibility defined in the Access Responsible Party agreement.

<sup>4</sup> For the definition, see further in this document D. Definitions relative to energy.

## C. LEVIES

According to the dispositions of the law dated July 20<sup>th</sup> 2005 modifying the law dated April 29<sup>th</sup> 1999 concerning the organization of the electricity market and according to the dispositions of the Royal Decree dated September 26<sup>th</sup> 2005 modifying the Royal Decree dated March 24<sup>th</sup> 2003, the federal contribution and the levy for “protected customers” won’t be received anymore by the grid operator.

### 1° Levy for financing measures for promotion of rational energy use

This levy is only in application in the **Flemish Region**.

*Table 11 : Levy for financing measures for promotion of rational energy use (in Flemish Region)*

|                                                         | Levy<br>(€/kWh net offtaken <sup>5</sup> ) |
|---------------------------------------------------------|--------------------------------------------|
| <b>On the 380/220/150 kV network</b>                    | ---                                        |
| <b>At transformer output to the 70/36/30 kV network</b> | 0,0000246                                  |
| <b>On the 70/36/30 kV network</b>                       | 0,0000246                                  |
| <b>At transformer output to medium voltage</b>          | 0,0000246                                  |

### 2° Federal Contribution in order to compensate the loss of revenues of the municipalities due to the liberalization of the electricity market

According to the dispositions foreseen in article 22 bis of the law dated April 29<sup>th</sup>, 1999 concerning the organization of the electricity market and foreseen in the ministerial decree dated May 13<sup>th</sup>, 2005 (“Arrêté ministériel portant exécution de l’article 22 bis de la loi du 29 avril 1999 relative à l’organisation du marché de l’électricité et de l’arrêté royal du 20 avril 2005 fixant les modalités d’attribution de la cotisation fédérale destinée à compenser la perte de revenus des communes résultant de la libéralisation du marché de l’électricité”), this contribution is in application on the off-takes of final consumers connected to the distribution grid with a limit to 25 GWh a year.

This contribution is only in application in the **Flemish Region** (according to the decree of the Walloon Government dated December 23<sup>nd</sup>, 2004 and to the decree of the Brussels Metropolitan Region dated December 20<sup>th</sup>, 2004 that exempt consumers situated in these Regions from this contribution).

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<sup>5</sup> For the definition, see further in this document D. Definitions relative to energy.



**Table 12 :** *Contribution in favour of the municipalities (in the Flemish Region)*

|                                                         | Levy<br>(€/kWh net offtaken <sup>6</sup> ) |
|---------------------------------------------------------|--------------------------------------------|
| <b>On the 380/220/150 kV network</b>                    | ---                                        |
| <b>At transformer output to the 70/36/30 kV network</b> | 0,0049100                                  |
| <b>On the 70/36/30 kV network</b>                       | 0,0049100                                  |
| <b>At transformer output to medium voltage</b>          | 0,0049100                                  |

3° Levy for occupying public domain

This levy is only in application in the **Flemish Region**.

**Table 13 :** *Levy for occupying public domain (in Flemish Region)*

|                                                         | Levy<br>(€/kWh net offtaken <sup>6</sup> ) |
|---------------------------------------------------------|--------------------------------------------|
| <b>On the 380/220/150 kV network</b>                    | ---                                        |
| <b>At transformer output to the 70/36/30 kV network</b> | 0,0000000                                  |
| <b>On the 70/36/30 kV network</b>                       | 0,0000000                                  |
| <b>At transformer output to medium voltage</b>          | 0,0000000                                  |

4° Levy for occupying public domain

This levy is in application in the **Walloon Region**.

**Table 14 :** *Levy for occupying public domain (in Walloon Region)*

|                                                         | Levy<br>(€/kWh net offtaken <sup>6</sup> ) |
|---------------------------------------------------------|--------------------------------------------|
| <b>On the 380/220/150 kV network</b>                    | ---                                        |
| <b>At transformer output to the 70/36/30 kV network</b> | 0,0002485                                  |
| <b>On the 70/36/30 kV network</b>                       | 0,0002485                                  |
| <b>At transformer output to medium voltage</b>          | 0,0002485                                  |

<sup>6</sup> For the definition, see further in this document D. Definitions relative to energy.

5° Levy for occupying road network

This levy is in application in the **Brussels Metropolitan Region** as from July the 1<sup>st</sup>, 2004.

**Table 15 :** *Levy for occupying road network (in the Brussels Metropolitan Region)*

|                                                         | Levy<br>(€/kWh net oftaken <sup>7</sup> ) |
|---------------------------------------------------------|-------------------------------------------|
| <b>On the 380/220/150 kV network</b>                    | 0,0027298                                 |
| <b>At transformer output to the 70/36/30 kV network</b> | 0,0027298                                 |
| <b>On the 70/36/30 kV network</b>                       | 0,0027298                                 |
| <b>At transformer output to medium voltage</b>          | ---                                       |

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<sup>7</sup> For the definition, see further in this document D. Definitions relative to energy.

## **D. DEFINITIONS RELATIVE TO ENERGY**

**The gross limited power**, on an access point for a given quarter of an hour, is the difference, if positive, between the offtaken power by the load(s) connected in this access point and the injected power by the local generation(s) associated to this access point, and this for the part of the injected power by these local generations that is smaller or equal to 25 MW. In case the before mentioned difference gives a negative value, the gross limited power is equal to 0.

**The gross limited energy**, on a given access point for a given period, is the integral of the gross limited power in this access point for the given period.

In other words, if

- $P_{load}(qh)$  is the average offtaken power by the loads on an access point for a given quarter of an hour  $qh$ , and
- $P_{generation}(qh)$  is the injected (produced) power by the local generation(s) associated to this access point on the given quarter of an hour  $qh$ ,

the gross limited energy, for the period  $per$ , equals

$$E_{gross\_limited}(per) = \sum_{qh \in per} \max(0; P_{charge}(qh) - \min(P_{production}(qh); 25MW)).$$

**The net offtaken power**, on an access point for a given quarter of an hour, is the difference, if positive, between the offtaken power by the load(s) connected in this access point and the injected power by the local generation(s) associated to this access point. In case the before mentioned difference gives a negative value, the net offtaken power is equal to 0.

**The net offtaken energy**, on a given access point for a given period, is the integral of the net offtaken power in this access point for the given period.

In other words, if

- $P_{load}(qh)$  is the average offtaken power by the loads on an access point for a given quarter of an hour  $qh$ , and
- $P_{generation}(qh)$  is the injected (produced) power by the local generation(s) associated to this access point on the given quarter of an hour  $qh$ ,

the net offtaken energy, for the period  $per$ , equals

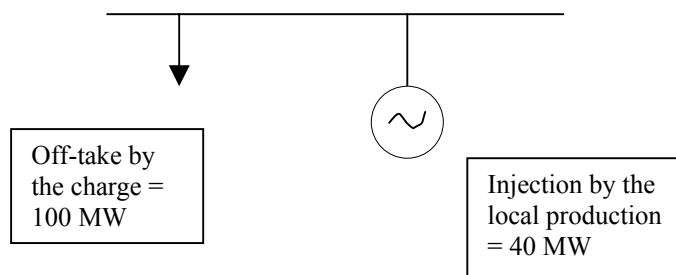
$$E_{offtaken}(per) = \sum_{qh \in per} \max(0; P_{charge}(qh) - P_{production}(qh)).$$

### Remark

If the injected power by the local generation(s) equals 0, the net offtaken energy coincides the gross limited energy.

### Example

For a load of 100 MW (for a given quarter of an hour), and an injection of 40 MW by a local generation associated to this load:



For the given quarter of an hour:

- Net offtaken energy  
=  $\max(0, 100 \text{ MW} - 40 \text{ MW}) * 15 \text{ minutes}$   
= 15 MWh
- Gross limited energy  
=  $\max(0, 100 \text{ MW} - \min(40 \text{ MW}, 25 \text{ MW})) * 15 \text{ minutes}$   
= 18,75 MWh.