

# SEFIR

## DELEGATION DU SERVICE PUBLIC DE PRODUCTION ET DE DISTRIBUTION DE CHAUFFAGE URBAIN

Avenant n°4

### TARIF DE VENTE (HTVA) Tranche Conditionnelle

pour le mois de : **JANVIER 2016**

#### 1- Eléments proportionnel

R1c ENERGIE = 33,24 € HT / MWh

R1 EAU CHAUDE SANITAIRE = 3,32 € HT / M3

#### 2- Eléments fixe

R2 PRESTATIONS = 22,88 € HT / Kw

R3' ENTRETIEN CENTRALE ET S/ST = 1,79 € HT / Kw

R3" ENTRETIEN RESEAU = 1,08 € HT / Kw

R4' AMORTISSEMENT TRAVAUX = 16,11 € HT / Kw

R5 EXTENSIONS DU RESEAU = 2,51 € HT/Kw

TOTAL R2 = 44,38 € HT/Kw

## SEFIR

## JUSTIFICATION DU TARIF DE VENTE(HTVA)

Pour le mois de : JANVIER 2016

| VALEURS DE BASE DES INDICES            |           | INDICES CONNUS AU : 31/01/2016   |   | TARIF DE BASE TRANCHE FERME   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
|--|-----------|--|---|---|--|--|--|--------|----------|--|----------|---|------|-------|---------------------------------|-----|---|-------|-------|----------------------------|-------|---|-------|-------|--------------------------|------|---|-------|-------|----------------------------|--------------------------|--|--|------|----------------------------|--|--|--------|--|--|
| EMT                                    | = 116,90  | ELMT (EMT indice remplacé par ELMT tarif vert A5 351102 - coefficient de raccordement 1) | = 164,96                                | <table border="1"> <thead> <tr> <th colspan="2"></th> <th>Coef %</th> <th>Val base</th> <th></th> </tr> </thead> <tbody> <tr> <td>Gaz cogé</td> <td>a</td> <td>9,0%</td> <td>20,44</td> <td>date date de valeur 01 mai 2014</td> </tr> <tr> <td>Gaz</td> <td>b</td> <td>16,0%</td> <td>49,27</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Fioul</td> <td>c</td> <td>12,0%</td> <td>55,81</td> <td>date de valeur sept 2010</td> </tr> <tr> <td>Bois</td> <td>d</td> <td>63,0%</td> <td>28,39</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Autre R1 CO<sub>2</sub></td> <td></td> <td></td> <td>0,18</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td colspan="2"></td> <td>100,0%</td> <td></td> <td></td> </tr> </tbody> </table> |  |  |  | Coef % | Val base |  | Gaz cogé | a | 9,0% | 20,44 | date date de valeur 01 mai 2014 | Gaz | b | 16,0% | 49,27 | date de valeur 01 mai 2014 | Fioul | c | 12,0% | 55,81 | date de valeur sept 2010 | Bois | d | 63,0% | 28,39 | date de valeur 01 mai 2014 | Autre R1 CO <sub>2</sub> |  |  | 0,18 | date de valeur 01 mai 2014 |  |  | 100,0% |  |  |
|  |           | Coef %   | Val base                                |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| Gaz cogé                               | a         | 9,0%   | 20,44                                   | date date de valeur 01 mai 2014   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| Gaz                                    | b         | 16,0%  | 49,27                                   | date de valeur 01 mai 2014  |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| Fioul                                  | c         | 12,0%  | 55,81                                   | date de valeur sept 2010  |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| Bois                                   | d         | 63,0%  | 28,39                                   | date de valeur 01 mai 2014  |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| Autre R1 CO <sub>2</sub>               |           |  | 0,18                                    | date de valeur 01 mai 2014  |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
|  |           | 100,0%   |   |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| FOD                                    | = 247,78  | FOD  | = 196,11                                |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| ICHT-IME                               | = 100,90  | ICHT-IME   | = 115,80                                |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| ICHT rev TS                            | = 100,90  | ICHTrev TS   | =                                       |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| IT "date de valeur 01 mai 2014"        | = 136,22  | IT   | = 126,25                                |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| A38CC                                  | = 101,30  | A38CC  | =                                       |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| FSD1 "date de valeur 01 mai 2014"      | = 129,60  | FSD1   | = 121,60                                |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| FSD1                                   | = 118,10  |  |   |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| FSD2                                   | = 117,10  | FSD2   | = 121,60                                |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| BT40                                   | = 952,30  | BT40   | = 1016,09                               |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| G0 "date de valeur 01 mai 2014"        | = 34,70   | G  | = 31,12                                 |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| BT40 (révision R1 cogé)                | = 1019,80 | BT40   | = 1016,09                               |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| ICEEB-PF "date de valeur 01 mai 2014"  | = 112,60  | ICEEB-PF   | = 122,70 <sup>3ème trimestre 2015</sup> |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| ICEEB-CLA "date de valeur 01 mai 2014" | = 131,50  | ICEEB-CLA  | = 146,60 <sup>3ème trimestre 2015</sup> |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |

## CALCUL TERME R1

R1c = a x R1cogé + b x R1gaz + c x R1fioul + d x R1bois + e x R1autres

|          |         |   |  |        |       |       |                                      |   |       |       |   |       |        |   |       |
|----------|---------|---|--|--------|-------|-------|--------------------------------------|---|-------|-------|---|-------|--------|---|-------|
| R1Gaz =  | R1Gazo  | x | $\frac{G}{Go}$   | R1Gaz= | 49,27 | x     | $\left(\frac{31,122}{34,700}\right)$ | = | 44,19 |       |   |       |        |   |       |
| R1FOD =  | R1Fodo  | x | $\frac{Fod}{Fodo}$   | R1FOD= | 55,81 | x     | $\frac{196,11}{247,78}$              | = | 44,17 |       |   |       |        |   |       |
| R1cogé = | R1cogéo | x | $(0,10 + 0,65 \times \frac{G}{Co} + 0,10 \times \frac{BT40}{BT40o} + 0,15 \times \frac{FSD1}{FSD1o})$                    |        |       |       |                                      |   |       |       |   |       |        |   |       |
| R1cogé = | 20,44   | x | $(0,10 + 0,65 \times \frac{31,122}{34,700} + 0,10 \times \frac{1016,09}{1019,80} + 0,15 \times \frac{121,60}{129,60})$   |        |       |       |                                      | = | 18,87 |       |   |       |        |   |       |
| R1bois = | R1Boiso | x | $(0,15 + 0,15 \times \frac{IT}{ITo} + 0,30 \times \frac{ICEEB-PF}{ICEEB-PFo} + 0,4 \times \frac{ICEEB-CLA}{ICEEB-CLAo})$ |        |       |       |                                      |   |       |       |   |       |        |   |       |
| R1bois = | 28,39   | x | $(0,15 + 0,15 \times \frac{126,250}{136,220} + 0,30 \times \frac{122,70}{112,60} + 0,4 \times \frac{146,60}{131,50})$    |        |       |       |                                      | = | 30,15 |       |   |       |        |   |       |
| R1Mwh =  | 16%     | x | 44,19  | + 12%  | x     | 44,17 | + 9%                                 | x | 18,87 | + 63% | x | 30,15 | + 0,18 | = | 33,24 |
| R1m3 =   | 3,32    |   |  |        |       |       |                                      |   |       |       |   |       |        |   |       |

## CALCUL TERME R2

|      |       |   |  |  |  |  |  |   |       |
|------|-------|---|--|--|--|--|--|---|-------|
| R2 = | R2o   | x | $(0,1 + 0,1 \times \frac{EMT}{EMTo} + 0,45 \times \frac{ICHT-IME}{ICHT-IMEo} + 0,35 \times \frac{FSD1}{FSD1o})$    |  |  |  |  |   |       |
| R2 = | 20,47 | x | $(0,1 + 0,1 \times \frac{164,96}{116,90} + 0,45 \times \frac{115,80}{100,90} + 0,35 \times \frac{121,60}{118,10})$ |  |  |  |  | = | 22,88 |

## CALCUL TERME R3'

|       |      |   |   |  |  |  |  |   |      |
|-------|------|---|---|--|--|--|--|---|------|
| R3' = | R3'o | x | $(0,15 + 0,3 \times \frac{ICHT-IME}{ICHT-IMEo} + 0,55 \times \frac{BT40}{BT40o})$ |  |  |  |  |   |      |
| R3' = | 1,66 | x | $(0,15 + 0,3 \times \frac{115,80}{100,90} + 0,55 \times \frac{1016,09}{952,30})$  |  |  |  |  | = | 1,79 |

## CALCUL TERME R3"

|       |      |   |   |  |  |  |  |   |      |
|-------|------|---|---|--|--|--|--|---|------|
| R3 =  | R3'o | x | $(0,15 + 0,3 \times \frac{ICHT-IME}{ICHT-IMEo} + 0,55 \times \frac{BT40}{BT40o})$ |  |  |  |  |   |      |
| R3" = | 1    | x | $(0,15 + 0,3 \times \frac{115,80}{100,90} + 0,55 \times \frac{1016,09}{952,30})$  |  |  |  |  | = | 1,08 |

## CALCUL TERME R4' TC

|       |       |   |   |  |  |  |  |   |       |                                    |
|-------|-------|---|---|--|--|--|--|---|-------|------------------------------------|
| R4' = | R4'o  | x | $(0,1 + 0,6 \times \frac{BT40}{BT40o} + 0,3 \times \frac{ICHT-IME}{ICHT-IMEo})$ |  |  |  |  |   |       |                                    |
| R4' = | 14,98 | x | $(0,1 + 0,6 \times \frac{1016,09}{952,30} + 0,3 \times \frac{115,80}{100,90})$  |  |  |  |  | = | 16,11 | Actualisation à la mise en service |

## CALCUL TERME R5

|      |      |   |   |  |  |  |  |   |      |
|------|------|---|---|--|--|--|--|---|------|
| R5 = | R5o  | x | $(0,1 + 0,6 \times \frac{BT40}{BT40o} + 0,3 \times \frac{ICHT-IME}{ICHT-IMEo})$ |  |  |  |  |   |      |
| R5 = | 2,31 | x | $(0,1 + 0,6 \times \frac{1016,09}{952,30} + 0,3 \times \frac{115,80}{100,90})$  |  |  |  |  | = | 2,51 |

Valeur en mai 2014 JANVIER

2016

| Contrats 2014 - 2015       |                  |        |              | Mis à jour tarif mois n |        |        |              |
|----------------------------|------------------|--------|--------------|-------------------------|--------|--------|--------------|
| LV                         | FT               | FB     | Global av4   | LV                      | FT     | FB     | Mois n       |
| 28 672                     | 7 700            | 3 650  | 40 022       | 28 672                  | 7 700  | 3 650  | 40 022       |
| PEG NORD_MA                | €/MWh pcs        | 21,13  | 21,13        | 21,13                   | 16,33  | 16,33  | 16,33        |
| Prix fournisseur           | €/MWh pcs        | 2,81   | 0,77         | 0,77                    | 3,60   | 0,77   | 0,77         |
| Terme variable             | €/MWh pcs        | 0,76   | 5,28         | 5,28                    | 0,79   | 5,65   | 5,65         |
| Stockage                   | €/MWh pcs        | 2,04   | 1,78         | 1,78                    | 2,04   | 1,78   | 1,78         |
| <b>Prix de ma molécule</b> | <b>€/MWh pcs</b> |        | <b>27,37</b> |                         |        |        | <b>23,26</b> |
| TSS                        | €/MWh pcs        | 0,2    | 0,2          | 0,2                     | 0,2    | 0,2    | 0,20         |
| Biométhane                 | €/MWh pcs        | 0,0072 | 0,0072       | 0,0072                  | 0,0153 | 0,0153 | 0,0153       |
| TICGN                      | €/MWh pcs        | 1,19   | 1,19         | 1,27                    | 1,19   | 1,19   | 2,64         |
| <b>Taxes</b>               | <b>€/MWh pcs</b> |        | <b>1,41</b>  |                         |        |        | <b>1,54</b>  |

| Terme fixe            | € | 183 409 | 36 092 | 17 590 | 237 091     | 194 437  | 39 541 | 19 206 | 253 184     |
|-----------------------|---|---------|--------|--------|-------------|----------|--------|--------|-------------|
| TCS                   |   | 89,32   | 89,32  | 89,32  |             | 93,75    | 93,75  | 93,75  |             |
| TCR                   |   | 64,42   | 64,42  | 64,42  |             | 67,61    | 67,61  | 67,61  |             |
| NTR                   |   | 2       | 2      | 2      |             | 2        | 2      | 2      |             |
| TCL                   |   | 33,92   | 33,92  | 33,92  |             | 35,61    | 35,61  | 35,61  |             |
| CJn                   |   | 340     | 133,50 | 63,40  |             | 340      | 139,55 | 66,15  |             |
| AbtD                  |   | 14296,8 | 707,64 | 707,64 |             | 15295,56 | 728,4  | 728,4  |             |
| Nb_PCE                |   | 1       | 1      | 1      |             | 1        | 1      | 1      |             |
| TSACJ                 |   | 186     |        |        |             | 199,08   |        |        |             |
| taux CTA transport    |   | 0,0471  | 0,0471 | 0,0471 |             | 0,0471   | 0,0471 | 0,0471 |             |
| taux CTA distribution |   | 0,208   | 0,208  | 0,208  |             | 0,208    | 0,208  | 0,208  |             |
| <b>Terme fixe</b>     |   |         |        |        | <b>5,92</b> |          |        |        | <b>6,33</b> |

= variation mensuelle  
 = variation annuelle  
 = variation selon contrat d'appro

G0 34,7

$$G = G0 (Peg-Peg0) + (Taxe-taxe0) + (Prime fixe-Prime fixe0) / MWh gaz$$

**G 31,12**

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Avenant n°4

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pour le mois de : **FEVRIER 2016**

#### 1- Eléments proportionnel

R1c ENERGIE = 31,92 € HT / MWh

R1 EAU CHAUDE SANITAIRE = 3,19 € HT / M3

#### 2- Eléments fixe

R2 PRESTATIONS = 22,83 € HT / Kw

R3' ENTRETIEN CENTRALE ET S/ST = 1,79 € HT / Kw

R3" ENTRETIEN RESEAU = 1,08 € HT / Kw

R4' AMORTISSEMENT TRAVAUX = 16,11 € HT / Kw

R5 EXTENSIONS DU RESEAU = 2,50 € HT/Kw

TOTAL R2 = 44,32 € HT/Kw

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Pour le mois de : **FEVRIER 2016**

| VALEURS DE BASE DES INDICES            |           | INDICES CONNUS AU : 31/01/2016   |  | TARIF DE BASE TRANCHE FERME   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
|--|-----------|--|--|---|--|--|--|--------|----------|--|----------|---|------|-------|---------------------------------|-----|---|-------|-------|----------------------------|-------|---|-------|-------|--------------------------|------|---|-------|-------|----------------------------|--------------------------|--|--|------|----------------------------|--|--|--------|--|--|
| EMT                                    | = 116,90  | ELMT (EMT indice remplacé par ELMT tarif vert A5 351102 - coefficient de raccordement 1) | = 164,96                               | <table border="1"> <thead> <tr> <th colspan="2"></th> <th>Coef %</th> <th>Val base</th> <th></th> </tr> </thead> <tbody> <tr> <td>Gaz cogé</td> <td>a</td> <td>9,0%</td> <td>20,44</td> <td>date date de valeur 01 mai 2014</td> </tr> <tr> <td>Gaz</td> <td>b</td> <td>16,0%</td> <td>49,27</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Fioul</td> <td>c</td> <td>12,0%</td> <td>55,81</td> <td>date de valeur sept 2010</td> </tr> <tr> <td>Bois</td> <td>d</td> <td>63,0%</td> <td>28,39</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Autre R1 CO<sub>2</sub></td> <td></td> <td></td> <td>0,18</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td colspan="2"></td> <td>100,0%</td> <td></td> <td></td> </tr> </tbody> </table> |  |  |  | Coef % | Val base |  | Gaz cogé | a | 9,0% | 20,44 | date date de valeur 01 mai 2014 | Gaz | b | 16,0% | 49,27 | date de valeur 01 mai 2014 | Fioul | c | 12,0% | 55,81 | date de valeur sept 2010 | Bois | d | 63,0% | 28,39 | date de valeur 01 mai 2014 | Autre R1 CO <sub>2</sub> |  |  | 0,18 | date de valeur 01 mai 2014 |  |  | 100,0% |  |  |
|  |           | Coef %   | Val base                               |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| Gaz cogé                               | a         | 9,0%   | 20,44                                  | date date de valeur 01 mai 2014   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| Gaz                                    | b         | 16,0%  | 49,27                                  | date de valeur 01 mai 2014  |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| Fioul                                  | c         | 12,0%  | 55,81                                  | date de valeur sept 2010  |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| Bois                                   | d         | 63,0%  | 28,39                                  | date de valeur 01 mai 2014  |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| Autre R1 CO <sub>2</sub>               |           |  | 0,18                                   | date de valeur 01 mai 2014  |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
|  |           | 100,0%   |  |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| FOD                                    | = 247,78  | FOD  | = 184,96                               |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| ICHT-IME                               | = 100,90  | ICHT-IME   | = 115,80                               |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| ICHT rev TS                            | = 100,90  | ICHTrev TS   | =                                      |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| IT "date de valeur 01 mai 2014"        | = 136,22  | IT   | = 126,47                               |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| A38CC                                  | = 101,30  | A38CC  | =                                      |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| FSD1 "date de valeur 01 mai 2014"      | = 129,60  | FSD1   | = 120,70                               |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| FSD1                                   | = 118,10  |  |  |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| FSD2                                   | = 117,10  | FSD2   | = 121,00                               |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| BT40                                   | = 952,30  | BT40   | = 1015,10                              |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| G0 "date de valeur 01 mai 2014"        | = 34,70   | G  | = 29,01                                |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| BT40 (révision R1 cogé)                | = 1019,80 | BT40   | = 1015,10                              |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| ICEEB-PF "date de valeur 01 mai 2014"  | = 112,60  | ICEEB-PF   | = 114,50 <sup>ème trimestre 2015</sup> |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| ICEEB-CLA "date de valeur 01 mai 2014" | = 131,50  | ICEEB-CLA  | = 145,10 <sup>ème trimestre 2015</sup> |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |

## CALCUL TERME R1

R1c = a x R1cogé + b x R1gaz + c x R1fioul + d x R1bois + e x R1autres

|          |         |   |  |       |        |       |      |                                      |       |       |   |       |        |   |       |
|----------|---------|---|--|-------|--------|-------|------|--------------------------------------|-------|-------|---|-------|--------|---|-------|
| R1Gaz =  | R1Gazo  | x | $\frac{G}{Go}$   |       | R1Gaz= | 49,27 | x    | $\left(\frac{29,013}{34,700}\right)$ | =     | 41,20 |   |       |        |   |       |
| R1FOD =  | R1Fodo  | x | $\frac{Fod}{Fodo}$   |       | R1FOD= | 55,81 | x    | $\frac{184,96}{247,78}$              | =     | 41,66 |   |       |        |   |       |
| R1cogé = | R1cogéo | x | $(0,10 + 0,65 \times \frac{G}{Co} + 0,10 \times \frac{BT40}{BT40o} + 0,15 \times \frac{FSD1}{FSD1o})$                    |       |        |       |      |                                      |       |       |   |       |        |   |       |
| R1cogé = | 20,44   | x | $(0,10 + 0,65 \times \frac{29,013}{34,700} + 0,10 \times \frac{1015,10}{1019,80} + 0,15 \times \frac{120,70}{129,60})$   | =     | 18,04  |       |      |                                      |       |       |   |       |        |   |       |
| R1bois = | R1Boiso | x | $(0,15 + 0,15 \times \frac{IT}{ITo} + 0,30 \times \frac{ICEEB-PF}{ICEEB-PFo} + 0,4 \times \frac{ICEEB-CLA}{ICEEB-CLAo})$ |       |        |       |      |                                      |       |       |   |       |        |   |       |
| R1bois = | 28,39   | x | $(0,15 + 0,15 \times \frac{126,470}{136,220} + 0,30 \times \frac{114,50}{112,60} + 0,4 \times \frac{145,10}{131,50})$    | =     | 29,40  |       |      |                                      |       |       |   |       |        |   |       |
| R1Mwh =  | 16%     | x | 41,20  | + 12% | x      | 41,66 | + 9% | x                                    | 18,04 | + 63% | x | 29,40 | + 0,18 | = | 31,92 |
| R1m3 =   | 3,19    |   |  |       |        |       |      |                                      |       |       |   |       |        |   |       |

## CALCUL TERME R2

|      |       |   |  |   |       |  |  |  |  |  |
|------|-------|---|--|---|-------|--|--|--|--|--|
| R2 = | R2o   | x | $(0,1 + 0,1 \times \frac{EMT}{EMTo} + 0,45 \times \frac{ICHT-IME}{ICHT-IMEo} + 0,35 \times \frac{FSD1}{FSD1o})$    |   |       |  |  |  |  |  |
| R2 = | 20,47 | x | $(0,1 + 0,1 \times \frac{164,96}{116,90} + 0,45 \times \frac{115,80}{100,90} + 0,35 \times \frac{120,70}{118,10})$ | = | 22,83 |  |  |  |  |  |

## CALCUL TERME R3'

|       |      |   |   |   |      |  |  |  |  |  |
|-------|------|---|---|---|------|--|--|--|--|--|
| R3' = | R3'o | x | $(0,15 + 0,3 \times \frac{ICHT-IME}{ICHT-IMEo} + 0,55 \times \frac{BT40}{BT40o})$ |   |      |  |  |  |  |  |
| R3' = | 1,66 | x | $(0,15 + 0,3 \times \frac{115,80}{100,90} + 0,55 \times \frac{1015,10}{952,30})$  | = | 1,79 |  |  |  |  |  |

## CALCUL TERME R3"

|       |      |   |   |   |      |  |  |  |  |  |
|-------|------|---|---|---|------|--|--|--|--|--|
| R3" = | R3'o | x | $(0,15 + 0,3 \times \frac{ICHT-IME}{ICHT-IMEo} + 0,55 \times \frac{BT40}{BT40o})$ |   |      |  |  |  |  |  |
| R3" = | 1    | x | $(0,15 + 0,3 \times \frac{115,80}{100,90} + 0,55 \times \frac{1015,10}{952,30})$  | = | 1,08 |  |  |  |  |  |

## CALCUL TERME R4' TC

Faut-il maintenir cette redevance, l'avenant 4 ne fait pas référence au R4

|       |       |   |   |   |       |  |  |  |  |                                    |
|-------|-------|---|---|---|-------|--|--|--|--|------------------------------------|
| R4' = | R4'o  | x | $(0,1 + 0,6 \times \frac{BT40}{BT40o} + 0,3 \times \frac{ICHT-IME}{ICHT-IMEo})$ |   |       |  |  |  |  |                                    |
| R4' = | 14,98 | x | $(0,1 + 0,6 \times \frac{1015,10}{952,30} + 0,3 \times \frac{115,80}{100,90})$  | = | 16,11 |  |  |  |  | Actualisation à la mise en service |

## CALCUL TERME R5

|      |      |   |   |   |      |  |  |  |  |  |
|------|------|---|---|---|------|--|--|--|--|--|
| R5 = | R5o  | x | $(0,1 + 0,6 \times \frac{BT40}{BT40o} + 0,3 \times \frac{ICHT-IME}{ICHT-IMEo})$ |   |      |  |  |  |  |  |
| R5 = | 2,31 | x | $(0,1 + 0,6 \times \frac{1015,10}{952,30} + 0,3 \times \frac{115,80}{100,90})$  | = | 2,50 |  |  |  |  |  |

Valeur en mai 2014 FEVRIER

|                            |                  | 2016                 |        |        |              |                         |       |       |              |
|----------------------------|------------------|----------------------|--------|--------|--------------|-------------------------|-------|-------|--------------|
|                            |                  | Contrats 2014 - 2015 |        |        |              | Mis à jour tarif mois n |       |       |              |
|                            |                  | LV                   | FT     | FB     | Global av4   | LV                      | FT    | FB    | Mois n       |
| Conso                      | MWh PCS          | 28 672               | 7 700  | 3 650  | 40 022       | 28 672                  | 7 700 | 3 650 | 40 022       |
| PEG NORD_MA                | €/MWh pcs        | 21,13                | 21,13  | 21,13  | 21,13        | 13,98                   | 13,98 | 13,98 | 13,98        |
| Prix fournisseur           | €/MWh pcs        | 2,81                 | 0,77   | 0,77   | 2,23         | 3,60                    | 0,77  | 0,77  | 2,80         |
| Terme variable             | €/MWh pcs        | 0,76                 | 5,28   | 5,28   | 2,04         | 0,79                    | 5,65  | 5,65  | 2,17         |
| Stockage                   | €/MWh pcs        | 2,04                 | 1,78   | 1,78   | 1,97         | 2,04                    | 1,78  | 1,78  | 1,97         |
| <b>Prix de ma molécule</b> | <b>€/MWh pcs</b> |                      |        |        | <b>27,37</b> |                         |       |       | <b>20,91</b> |
| TSS                        | €/MWh pcs        | 0,2                  | 0,2    | 0,2    | 0,20         | -                       | -     | -     | 0,00         |
| Biométhane                 | €/MWh pcs        | 0,0072               | 0,0072 | 0,0072 | 0,01         | -                       | -     | -     | 0,00         |
| TICGN                      | €/MWh pcs        | 1,19                 | 1,19   | 1,27   | 1,20         | 1,52                    | 1,52  | 4,34  | 1,78         |
| <b>Taxes</b>               | <b>€/MWh pcs</b> |                      |        |        | <b>1,41</b>  |                         |       |       | <b>1,78</b>  |

|                       |   | 183 409 | 36 092 | 17 590 | 237 091     | 194 437  | 39 576 | 19 241 | 253 254     |
|-----------------------|---|---------|--------|--------|-------------|----------|--------|--------|-------------|
| <b>Terme fixe</b>     | € |         |        |        |             |          |        |        |             |
| TCS                   |   | 89,32   | 89,32  | 89,32  |             | 93,75    | 93,75  | 93,75  |             |
| TCR                   |   | 64,42   | 64,42  | 64,42  |             | 67,61    | 67,61  | 67,61  |             |
| NTR                   |   | 2       | 2      | 2      |             | 2        | 2      | 2      |             |
| TCL                   |   | 33,92   | 33,92  | 33,92  |             | 35,61    | 35,61  | 35,61  |             |
| CJn                   |   | 340     | 133,50 | 63,40  |             | 340      | 139,55 | 66,15  |             |
| AbtD                  |   | 14296,8 | 707,64 | 707,64 |             | 15295,56 | 757,08 | 757,08 |             |
| Nb_PCE                |   | 1       | 1      | 1      |             | 1        | 1      | 1      |             |
| TSACJ                 |   | 186     |        |        |             | 199,08   |        |        |             |
| taux CTA transport    |   | 0,0471  | 0,0471 | 0,0471 |             | 0,0471   | 0,0471 | 0,0471 |             |
| taux CTA distribution |   | 0,208   | 0,208  | 0,208  |             | 0,208    | 0,208  | 0,208  |             |
| <b>Terme fixe</b>     |   |         |        |        | <b>5,92</b> |          |        |        | <b>6,33</b> |

= variation mensuelle  
 = variation annuelle  
 = variation selon contrat d'appro

G<sub>0</sub> 34,70

$$G = G_0 (Peg - Peg_0) + (Taxe - taxe_0) + (Prime\ fixe - Prime\ fixe_0) / MWh\ gaz$$

**G 29,01**

# SEFIR

## DELEGATION DU SERVICE PUBLIC DE PRODUCTION ET DE DISTRIBUTION DE CHAUFFAGE URBAIN

Avenant n° 4

### TARIF DE VENTE (HTVA) Tranche Conditionnelle

pour le mois de : **MARS 2016**

#### 1- Eléments proportionnel

R1c ENERGIE = 31,52 €HT / MWh

R1 EAU CHAUDE SANITAIRE = 3,15 €HT / M3

#### 2- Eléments fixe

R2 PRESTATIONS = 22,76 €HT / Kw

R3' ENTRETIEN CENTRALE ET S/ST = 1,79 €HT / Kw

R3" ENTRETIEN RESEAU = 1,08 €HT / Kw

R4' AMORTISSEMENT TRAVAUX = 16,11 €HT / Kw

R5 EXTENSIONS DU RESEAU = 2,51 €HT/Kw

TOTAL R2 44,25 €HT/Kw

## SEFIR

## JUSTIFICATION DU TARIF DE VENTE(HTVA)

Pour le mois de : **MARS 2016**

| VALEURS DE BASE DES INDICES            |           | INDICES CONNUS AU : 31/01/2016   |   | TARIF DE BASE TRANCHE FERME   |  |                                 |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
|--|-----------|--|---|---|--|---------------------------------|--|--------|----------|--|----------|---|------|-------|---------------------------------|-----|---|-------|-------|----------------------------|-------|---|-------|-------|--------------------------|------|---|-------|-------|----------------------------|--------------------------|--|--|------|----------------------------|--|--|--------|--|--|
| EMT                                    | = 116,90  | ELMT (EMT indice remplacé par ELMT tarif vert A5 351102 - coefficient de raccordement 1) | = 164,96  | <table border="1"> <thead> <tr> <th colspan="2"></th> <th>Coef %</th> <th>Val base</th> <th></th> </tr> </thead> <tbody> <tr> <td>Gaz cogé</td> <td>a</td> <td>9,0%</td> <td>20,44</td> <td>date date de valeur 01 mai 2014</td> </tr> <tr> <td>Gaz</td> <td>b</td> <td>16,0%</td> <td>49,27</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Fioul</td> <td>c</td> <td>12,0%</td> <td>55,81</td> <td>date de valeur sept 2010</td> </tr> <tr> <td>Bois</td> <td>d</td> <td>63,0%</td> <td>28,39</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Autre R1 CO<sub>2</sub></td> <td></td> <td></td> <td>0,18</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td colspan="2"></td> <td>100,0%</td> <td></td> <td></td> </tr> </tbody> </table> |  |                                 |  | Coef % | Val base |  | Gaz cogé | a | 9,0% | 20,44 | date date de valeur 01 mai 2014 | Gaz | b | 16,0% | 49,27 | date de valeur 01 mai 2014 | Fioul | c | 12,0% | 55,81 | date de valeur sept 2010 | Bois | d | 63,0% | 28,39 | date de valeur 01 mai 2014 | Autre R1 CO <sub>2</sub> |  |  | 0,18 | date de valeur 01 mai 2014 |  |  | 100,0% |  |  |
|  |           | Coef %   | Val base  |   |  |                                 |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| Gaz cogé                               | a         | 9,0%   | 20,44   |   |  | date date de valeur 01 mai 2014 |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| Gaz                                    | b         | 16,0%  | 49,27   |   |  | date de valeur 01 mai 2014      |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| Fioul                                  | c         | 12,0%  | 55,81   |   |  | date de valeur sept 2010        |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| Bois                                   | d         | 63,0%  | 28,39   |   |  | date de valeur 01 mai 2014      |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| Autre R1 CO <sub>2</sub>               |           |  | 0,18  |   |  | date de valeur 01 mai 2014      |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
|  |           | 100,0%   |   |   |  |                                 |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| FOD                                    | = 247,78  | FOD  | = 184,37  |   |  |                                 |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| ICHT-IME                               | = 100,90  | ICHT-IME   | = 115,80  |   |  |                                 |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| ICHT rev TS                            | = 100,90  | ICHTrev TS   | =   |   |  |                                 |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| IT "date de valeur 01 mai 2014"        | = 136,22  | IT   | = 127,63  |   |  |                                 |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| A38CC                                  | = 101,30  | A38CC  | =   |   |  |                                 |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| FSD1 "date de valeur 01 mai 2014"      | = 129,60  | FSD1   | = 119,60  |   |  |                                 |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| FSD1                                   | = 118,10  |  |   |   |  |                                 |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| FSD2                                   | = 117,10  | FSD2   | = 120,30  |   |  |                                 |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| BT40                                   | = 952,30  | BT40   | = 1016,09   |   |  |                                 |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| G0 "date de valeur 01 mai 2014"        | = 34,70   | G  | = 27,45   |   |  |                                 |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| BT40 (révision R1 cogé)                | = 1019,80 | BT40   | = 1016,09   |   |  |                                 |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| ICEEB-PF "date de valeur 01 mai 2014"  | = 112,60  | ICEEB-PF   | = 114,50 <sup>1<sup>er</sup> trimestre 2015</sup> |   |  |                                 |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| ICEEB-CLA "date de valeur 01 mai 2014" | = 131,50  | ICEEB-CLA  | = 145,10 <sup>1<sup>er</sup> trimestre 2015</sup> |   |  |                                 |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |

## CALCUL TERME R1

R1c = a x R1cogé + b x R1gaz + c x R1fioul + d x R1bois + e x R1autres

$$R1Gaz = R1Gazo \times \frac{G}{Go} \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \quad R1Gaz = 49,27 \times \left( \frac{27,453}{34,700} \right) = 38,98$$

$$R1FOD = R1Fodo \times \frac{Fod}{Fodo} \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \quad R1FOD = 55,81 \times \frac{184,37}{247,78} = 41,53$$

$$R1cogé = R1cogéo \times \left( 0,10 + 0,65 \times \frac{G}{Co} + 0,10 \times \frac{BT40}{BT40o} + 0,15 \times \frac{FSD1}{FSD1o} \right)$$

$$R1cogé = 20,44 \times \left( 0,10 + 0,65 \times \frac{27,453}{34,700} + 0,10 \times \frac{1016,09}{1019,80} + 0,15 \times \frac{119,60}{129,60} \right) = 17,42$$

$$R1bois = R1Boiso \times \left( 0,15 + 0,15 \times \frac{IT}{ITo} + 0,30 \times \frac{ICEEB-PF}{ICEEB-PFo} + 0,4 \times \frac{ICEEB-CLA}{ICEEB-CLAo} \right)$$

$$R1bois = 28,39 \times \left( 0,15 + 0,15 \times \frac{127,630}{136,220} + 0,30 \times \frac{114,50}{112,60} + 0,4 \times \frac{145,10}{131,50} \right) = 29,44$$

$$R1Mwh = 16\% \times 38,98 + 12\% \times 41,53 + 9\% \times 17,42 + 63\% \times 29,44 + 0,18 = 31,52$$

$$R1m3 = 3,15$$

## CALCUL TERME R2

$$R2 = R2o \times \left( 0,1 + 0,1 \times \frac{EMT}{EMTo} + 0,45 \times \frac{ICHT-IME}{ICHT-IMEo} + 0,35 \times \frac{FSD1}{FSD1o} \right)$$

$$R2 = 20,47 \times \left( 0,1 + 0,1 \times \frac{164,96}{116,90} + 0,45 \times \frac{115,80}{100,90} + 0,35 \times \frac{119,60}{118,10} \right) = 22,76$$

## CALCUL TERME R3'

$$R3' = R3'o \times \left( 0,15 + 0,3 \times \frac{ICHT-IME}{ICHT-IMEo} + 0,55 \times \frac{BT40}{BT40o} \right)$$

$$R3' = 1,66 \times \left( 0,15 + 0,3 \times \frac{115,80}{100,90} + 0,55 \times \frac{1016,09}{952,30} \right) = 1,79$$

## CALCUL TERME R3''

$$R3'' = R3'o \times \left( 0,15 + 0,3 \times \frac{ICHT-IME}{ICHT-IMEo} + 0,55 \times \frac{BT40}{BT40o} \right)$$

$$R3'' = 1 \times \left( 0,15 + 0,3 \times \frac{115,80}{100,900} + 0,55 \times \frac{1016,09}{952,30} \right) = 1,08$$

## CALCUL TERME R4' TC

$$R4' = R4'o \times \left( 0,1 + 0,6 \times \frac{BT40}{BT40o} + 0,3 \times \frac{ICHT-IME}{ICHT-IMEo} \right) \quad 16,25$$

$$R4' = 14,98 \times \left( 0,1 + 0,6 \times \frac{1016,09}{952,30} + 0,3 \times \frac{115,80}{100,90} \right) = 16,11 \quad \text{Actualisation à la mise en service}$$

## CALCUL TERME R5

$$R5 = R5o \times \left( 0,1 + 0,6 \times \frac{BT40}{BT40o} + 0,3 \times \frac{ICHT-IME}{ICHT-IMEo} \right)$$

$$R5 = 2,31 \times \left( 0,1 + 0,6 \times \frac{1016,09}{952,30} + 0,3 \times \frac{115,80}{100,90} \right) = 2,51$$

Valeur en mai 2014

|                            |                  | Contrats 2014 - 2015 |        |        |              | Mis à jour tarif mois n |       |       |              |
|----------------------------|------------------|----------------------|--------|--------|--------------|-------------------------|-------|-------|--------------|
|                            |                  | LV                   | FT     | FB     | Global av4   | LV                      | FT    | FB    | Mois n       |
| Conso                      | MWh PCS          | 28 672               | 7 700  | 3 650  | 40 022       | 28 672                  | 7 700 | 3 650 | 40 022       |
| PEG NORD_MA                | €/MWh pcs        | 21,13                | 21,13  | 21,13  | 21,13        | 12,42                   | 12,42 | 12,42 | 12,42        |
| Prix fournisseur           | €/MWh pcs        | 2,81                 | 0,77   | 0,77   | 2,23         | 3,60                    | 0,77  | 0,77  | 2,80         |
| Terme variable             | €/MWh pcs        | 0,76                 | 5,28   | 5,28   | 2,04         | 0,79                    | 5,65  | 5,65  | 2,17         |
| Stockage                   | €/MWh pcs        | 2,04                 | 1,78   | 1,78   | 1,97         | 2,04                    | 1,78  | 1,78  | 1,97         |
| <b>Prix de ma molécule</b> | <b>€/MWh pcs</b> |                      |        |        | <b>27,37</b> |                         |       |       | <b>19,35</b> |
| TSS                        | €/MWh pcs        | 0,2                  | 0,2    | 0,2    | 0,20         | -                       | -     | -     | 0,00         |
| Biométhane                 | €/MWh pcs        | 0,0072               | 0,0072 | 0,0072 | 0,01         | -                       | -     | -     | 0,00         |
| TICGN                      | €/MWh pcs        | 1,19                 | 1,19   | 1,27   | 1,20         | 1,52                    | 1,52  | 4,34  | 1,78         |
| <b>Taxes</b>               | <b>€/MWh pcs</b> |                      |        |        | <b>1,41</b>  |                         |       |       | <b>1,78</b>  |

|                       |          | 183 409 | 36 092 | 17 590 | 237 091     | 194 437  | 39 576 | 19 241 | 253 254     |
|-----------------------|----------|---------|--------|--------|-------------|----------|--------|--------|-------------|
| <b>Terme fixe</b>     | <b>€</b> |         |        |        |             |          |        |        |             |
| TCS                   |          | 89,32   | 89,32  | 89,32  |             | 93,75    | 93,75  | 93,75  |             |
| TCR                   |          | 64,42   | 64,42  | 64,42  |             | 67,61    | 67,61  | 67,61  |             |
| NTR                   |          | 2       | 2      | 2      |             | 2        | 2      | 2      |             |
| TCL                   |          | 33,92   | 33,92  | 33,92  |             | 35,61    | 35,61  | 35,61  |             |
| CJn                   |          | 340     | 133,50 | 63,40  |             | 340      | 139,55 | 66,15  |             |
| AbtD                  |          | 14296,8 | 707,64 | 707,64 |             | 15295,56 | 757,08 | 757,08 |             |
| Nb_PCE                |          | 1       | 1      | 1      |             | 1        | 1      | 1      |             |
| TSACJ                 |          | 186     |        |        |             | 199,08   |        |        |             |
| taux CTA transport    |          | 0,0471  | 0,0471 | 0,0471 |             | 0,0471   | 0,0471 | 0,0471 |             |
| taux CTA distribution |          | 0,208   | 0,208  | 0,208  |             | 0,208    | 0,208  | 0,208  |             |
| <b>Terme fixe</b>     |          |         |        |        | <b>5,92</b> |          |        |        | <b>6,33</b> |

= variation mensuelle  
 = variation annuelle  
 = variation selon contrat d'appro

G<sub>0</sub> 34,70

$$G = G_0 (Peg - Peg_0) + (Taxe - taxe_0) + (Prime\ fixe - Prime\ fixe_0) / MWh\ gaz$$

**G 27,45**

# SEFIR

## DELEGATION DU SERVICE PUBLIC DE PRODUCTION ET DE DISTRIBUTION DE CHAUFFAGE URBAIN

Avenant n° 4

### TARIF DE VENTE (HTVA) Tranche Conditionnelle

pour le mois de : **AVRIL 2016**

#### 1- Eléments proportionnel

R1c ENERGIE = 31,92 €HT / MWh

R1 EAU CHAUDE SANITAIRE = 3,19 €HT / M3

#### 2- Eléments fixe

R2 PRESTATIONS = 22,79 €HT / Kw

R3' ENTRETIEN CENTRALE ET S/ST = 1,80 €HT / Kw

R3" ENTRETIEN RESEAU = 1,08 €HT / Kw

R4' AMORTISSEMENT TRAVAUX = 16,11 €HT / Kw

R5 EXTENSIONS DU RESEAU = 2,51 €HT/Kw

TOTAL R2 44,28 €HT/Kw

## SEFIR

## JUSTIFICATION DU TARIF DE VENTE(HTVA)

Pour le mois de : **AVRIL 2016**

| VALEURS DE BASE DES INDICES            |           | INDICES CONNUS AU : 31/01/2016   |   | TARIF DE BASE TRANCHE FERME   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
|--|-----------|--|---|---|--|--|--|--------|----------|--|----------|---|------|-------|---------------------------------|-----|---|-------|-------|----------------------------|-------|---|-------|-------|--------------------------|------|---|-------|-------|----------------------------|--------------------------|--|--|------|----------------------------|--|--|--------|--|--|
| EMT                                    | = 116,90  | ELMT (EMT indice remplacé par ELMT tarif vert A5 351107 - coefficient de raccordement 1) | = 163,70                                | <table border="1"> <thead> <tr> <th colspan="2"></th> <th>Coef %</th> <th>Val base</th> <th></th> </tr> </thead> <tbody> <tr> <td>Gaz cogé</td> <td>a</td> <td>9,0%</td> <td>20,44</td> <td>date date de valeur 01 mai 2014</td> </tr> <tr> <td>Gaz</td> <td>b</td> <td>16,0%</td> <td>49,27</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Fioul</td> <td>c</td> <td>12,0%</td> <td>55,81</td> <td>date de valeur sept 2010</td> </tr> <tr> <td>Bois</td> <td>d</td> <td>63,0%</td> <td>28,39</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Autre R1 CO<sub>2</sub></td> <td></td> <td></td> <td>0,18</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td colspan="2"></td> <td>100,0%</td> <td></td> <td></td> </tr> </tbody> </table> |  |  |  | Coef % | Val base |  | Gaz cogé | a | 9,0% | 20,44 | date date de valeur 01 mai 2014 | Gaz | b | 16,0% | 49,27 | date de valeur 01 mai 2014 | Fioul | c | 12,0% | 55,81 | date de valeur sept 2010 | Bois | d | 63,0% | 28,39 | date de valeur 01 mai 2014 | Autre R1 CO <sub>2</sub> |  |  | 0,18 | date de valeur 01 mai 2014 |  |  | 100,0% |  |  |
|  |           | Coef %   | Val base                                |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| Gaz cogé                               | a         | 9,0%   | 20,44                                   | date date de valeur 01 mai 2014   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| Gaz                                    | b         | 16,0%  | 49,27                                   | date de valeur 01 mai 2014  |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| Fioul                                  | c         | 12,0%  | 55,81                                   | date de valeur sept 2010  |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| Bois                                   | d         | 63,0%  | 28,39                                   | date de valeur 01 mai 2014  |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| Autre R1 CO <sub>2</sub>               |           |  | 0,18                                    | date de valeur 01 mai 2014  |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
|  |           | 100,0%   |   |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| FOD                                    | = 247,78  | FOD  | = 197,86                                |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| ICHT-IME                               | = 100,90  | ICHT-IME   | = 116,30                                |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| ICHT rev TS                            | = 100,90  | ICHTrev TS   | =                                       |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| IT "date de valeur 01 mai 2014"        | = 136,22  | IT   | = 127,97                                |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| A38CC                                  | = 101,30  | A38CC  | =                                       |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| FSD1 "date de valeur 01 mai 2014"      | = 129,60  | FSD1   | = 119,60                                |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| FSD1                                   | = 118,10  |  |   |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| FSD2                                   | = 117,10  | FSD2   | = 120,30                                |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| BT40                                   | = 952,30  | BT40   | = 1016,09                               |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| G0 "date de valeur 01 mai 2014"        | = 34,70   | G  | = 27,57                                 |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| BT40 (révision R1 cogé)                | = 1019,80 | BT40   | = 1016,09                               |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| ICEEB-PF "date de valeur 01 mai 2014"  | = 112,60  | ICEEB-PF   | = 114,50 <sup>3ème trimestre 2015</sup> |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |
| ICEEB-CLA "date de valeur 01 mai 2014" | = 131,50  | ICEEB-CLA  | = 145,10 <sup>3ème trimestre 2015</sup> |   |  |  |  |        |          |  |          |   |      |       |                                 |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |                          |  |  |      |                            |  |  |        |  |  |

## CALCUL TERME R1

R1c = a x R1cogé + b x R1gaz + c x R1fioul + d x R1bois + e x R1autres

|          |         |   |  |       |        |       |      |                                    |       |       |   |       |        |   |       |
|----------|---------|---|--|-------|--------|-------|------|------------------------------------|-------|-------|---|-------|--------|---|-------|
| R1Gaz =  | R1Gazo  | x | $\frac{G}{Go}$   |       | R1Gaz= | 49,27 | x    | $\left(\frac{27,57}{34,70}\right)$ | =     | 39,15 |   |       |        |   |       |
| R1FOD =  | R1Fodo  | x | $\frac{Fod}{Fodo}$   |       | R1FOD= | 55,81 | x    | $\frac{197,86}{247,78}$            | =     | 44,57 |   |       |        |   |       |
| R1cogé = | R1cogéo | x | $(0,10 + 0,65 \times \frac{G}{Co} + 0,10 \times \frac{BT40}{BT40o} + 0,15 \times \frac{FSD1}{FSD1o})$                    |       |        |       |      |                                    |       |       |   |       |        |   |       |
| R1cogé = | 20,44   | x | $(0,10 + 0,65 \times \frac{27,57}{34,70} + 0,10 \times \frac{1016,09}{1019,80} + 0,15 \times \frac{119,60}{129,60})$     | =     | 17,47  |       |      |                                    |       |       |   |       |        |   |       |
| R1bois = | R1Boiso | x | $(0,15 + 0,15 \times \frac{IT}{ITo} + 0,30 \times \frac{ICEEB-PF}{ICEEB-PFo} + 0,4 \times \frac{ICEEB-CLA}{ICEEB-CLAo})$ |       |        |       |      |                                    |       |       |   |       |        |   |       |
| R1bois = | 28,39   | x | $(0,15 + 0,15 \times \frac{127,97}{136,22} + 0,30 \times \frac{114,50}{112,60} + 0,4 \times \frac{145,10}{131,50})$      | =     | 29,45  |       |      |                                    |       |       |   |       |        |   |       |
| R1Mwh =  | 16%     | x | 39,15  | + 12% | x      | 44,57 | + 9% | x                                  | 17,47 | + 63% | x | 29,45 | + 0,18 | = | 31,92 |
| R1m3 =   | 3,19    |   |  |       |        |       |      |                                    |       |       |   |       |        |   |       |

## CALCUL TERME R2

|      |       |   |  |   |       |  |  |  |  |  |
|------|-------|---|--|---|-------|--|--|--|--|--|
| R2 = | R2o   | x | $(0,1 + 0,1 \times \frac{EMT}{EMTo} + 0,45 \times \frac{ICHT-IME}{ICHT-IMEo} + 0,35 \times \frac{FSD1}{FSD1o})$    |   |       |  |  |  |  |  |
| R2 = | 20,47 | x | $(0,1 + 0,1 \times \frac{163,70}{116,90} + 0,45 \times \frac{116,30}{100,90} + 0,35 \times \frac{119,60}{118,10})$ | = | 22,79 |  |  |  |  |  |

## CALCUL TERME R3'

|       |      |   |   |   |      |  |  |  |  |  |
|-------|------|---|---|---|------|--|--|--|--|--|
| R3' = | R3'o | x | $(0,15 + 0,3 \times \frac{ICHT-IME}{ICHT-IMEo} + 0,55 \times \frac{BT40}{BT40o})$ |   |      |  |  |  |  |  |
| R3' = | 1,66 | x | $(0,15 + 0,3 \times \frac{116,30}{100,90} + 0,55 \times \frac{1016,09}{952,30})$  | = | 1,80 |  |  |  |  |  |

## CALCUL TERME R3"

|       |      |   |   |   |      |  |  |  |  |  |
|-------|------|---|---|---|------|--|--|--|--|--|
| R3" = | R3'o | x | $(0,15 + 0,3 \times \frac{ICHT-IME}{ICHT-IMEo} + 0,55 \times \frac{BT40}{BT40o})$ |   |      |  |  |  |  |  |
| R3" = | 1    | x | $(0,15 + 0,3 \times \frac{116,30}{100,90} + 0,55 \times \frac{1016,09}{952,30})$  | = | 1,08 |  |  |  |  |  |

## CALCUL TERME R4' TC

|       |       |   |   |   |       |                                    |
|-------|-------|---|---|---|-------|------------------------------------|
| R4' = | R4'o  | x | $(0,1 + 0,6 \times \frac{BT40}{BT40o} + 0,3 \times \frac{ICHT-IME}{ICHT-IMEo})$ |   | 16,27 |                                    |
| R4' = | 14,98 | x | $(0,1 + 0,6 \times \frac{1016,09}{952,30} + 0,3 \times \frac{116,30}{100,90})$  | = | 16,11 | Actualisation à la mise en service |

## CALCUL TERME R5

|      |      |   |   |   |      |
|------|------|---|---|---|------|
| R5 = | R5o  | x | $(0,1 + 0,6 \times \frac{BT40}{BT40o} + 0,3 \times \frac{ICHT-IME}{ICHT-IMEo})$ |   |      |
| R5 = | 2,31 | x | $(0,1 + 0,6 \times \frac{1016,09}{952,30} + 0,3 \times \frac{116,30}{100,90})$  | = | 2,51 |

Valeur en mai 2014

|                            |                  | Contrats 2014 - 2015 |        |        |              | Mis à jour tarif mois n |       |       |              |
|----------------------------|------------------|----------------------|--------|--------|--------------|-------------------------|-------|-------|--------------|
|                            |                  | LV                   | FT     | FB     | Global av4   | LV                      | FT    | FB    | Mois n       |
| Conso                      | MWh PCS          | 28 672               | 7 700  | 3 650  | 40 022       | 28 672                  | 7 700 | 3 650 | 40 022       |
| PEG NORD_MA                | €/MWh pcs        | 21,13                | 21,13  | 21,13  | 21,13        | 12,29                   | 12,29 | 12,29 | 12,29        |
| Prix fournisseur           | €/MWh pcs        | 2,81                 | 0,77   | 0,77   | 2,23         | 3,60                    | 0,77  | 0,77  | 2,80         |
| Terme variable             | €/MWh pcs        | 0,76                 | 5,28   | 5,28   | 2,04         | 0,79                    | 5,65  | 5,65  | 2,17         |
| Stockage                   | €/MWh pcs        | 2,04                 | 1,78   | 1,78   | 1,97         | 2,04                    | 1,78  | 1,78  | 1,97         |
| <b>Prix de ma molécule</b> | <b>€/MWh pcs</b> |                      |        |        | <b>27,37</b> |                         |       |       | <b>19,22</b> |
| TSS                        | €/MWh pcs        | 0,2                  | 0,2    | 0,2    | 0,20         | -                       | -     | -     | 0,00         |
| Biométhane                 | €/MWh pcs        | 0,0072               | 0,0072 | 0,0072 | 0,01         | -                       | -     | -     | 0,00         |
| TICGN                      | €/MWh pcs        | 1,19                 | 1,19   | 1,27   | 1,20         | 1,52                    | 1,52  | 4,34  | 1,78         |
| <b>Taxes</b>               | <b>€/MWh pcs</b> |                      |        |        | <b>1,41</b>  |                         |       |       | <b>1,78</b>  |

|                       |   | 183 409 | 36 092 | 17 590 | 237 091     | 200 650  | 42 126 | 20 450 | 263 226     |
|-----------------------|---|---------|--------|--------|-------------|----------|--------|--------|-------------|
| Terme fixe            | € | 183 409 | 36 092 | 17 590 | 237 091     | 200 650  | 42 126 | 20 450 | 263 226     |
| TCS                   |   | 89,32   | 89,32  | 89,32  |             | 99,93    | 99,93  | 99,93  |             |
| TCR                   |   | 64,42   | 64,42  | 64,42  |             | 72,07    | 72,07  | 72,07  |             |
| NTR                   |   | 2       | 2      | 2      |             | 2        | 2      | 2      |             |
| TCL                   |   | 33,92   | 33,92  | 33,92  |             | 37,96    | 37,96  | 37,96  |             |
| CJn                   |   | 340     | 133,50 | 63,40  |             | 340      | 139,55 | 66,15  |             |
| AbtD                  |   | 14296,8 | 707,64 | 707,64 |             | 15295,56 | 757,08 | 757,08 |             |
| Nb_PCE                |   | 1       | 1      | 1      |             | 1        | 1      | 1      |             |
| TSACJ                 |   | 186     |        |        |             | 199,08   |        |        |             |
| taux CTA transport    |   | 0,0471  | 0,0471 | 0,0471 |             | 0,0471   | 0,0471 | 0,0471 |             |
| taux CTA distribution |   | 0,208   | 0,208  | 0,208  |             | 0,208    | 0,208  | 0,208  |             |
| <b>Terme fixe</b>     |   |         |        |        | <b>5,92</b> |          |        |        | <b>6,58</b> |

= variation mensuelle  
 = variation annuelle  
 = variation selon contrat d'appro

G<sub>0</sub> 34,70

$$G = G_0 (Peg - Peg_0) + (Taxe - taxe_0) + (Prime\ fixe - Prime\ fixe_0) / MWh\ gaz$$

**G** 27,57

## SEFIR

### DELEGATION DU SERVICE PUBLIC DE PRODUCTION ET DE DISTRIBUTION DE CHAUFFAGE URBAIN

*Avenant n°4*

#### TARIF DE VENTE (HTVA) Tranche Conditionnelle

pour le mois de : **MAI 2016**

#### 1- Eléments proportionnel

R1c ENERGIE = 31,69 € HT / MWh

R1 EAU CHAUDE SANITAIRE = 3,17 € HT / M3

#### 2- Eléments fixe

R2 PRESTATIONS = 22,96 € HT / Kw

R3' ENTRETIEN CENTRALE ET S/ST = 1,80 € HT / Kw

R3" ENTRETIEN RESEAU = 1,08 € HT / Kw

R4' AMORTISSEMENT TRAVAUX = 16,11 € HT / Kw

R5 EXTENSIONS DU RESEAU = 2,51 € HT/Kw

TOTAL R2 44,47 € HT/Kw

## SEFIR

## JUSTIFICATION DU TARIF DE VENTE(HTVA)

Pour le mois de : MAI 2016

| VALEURS DE BASE DES INDICES            |           | INDICES CONNUS AU : 31/01/2016   |  | TARIF DE BASE TRANCHE FERME  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
|--|-----------|--|--|--|--|--|--|--|--|--------|----------|--|----------|---|------|-------|----------------------------|-----|---|-------|-------|----------------------------|-------|---|-------|-------|--------------------------|------|---|-------|-------|----------------------------|-------|--|--|--|--|--------------------|--|--|------|----------------------------|--|--|--------|--|--|
| EMT                                    | = 116,90  | ELMT (EMT indice remplacé par ELMT tarif vert A5 351107 - coefficient de rattachement 1) | = 170,72                               | <table border="1"> <thead> <tr> <th colspan="2"></th> <th>Coef %</th> <th>Val base</th> <th></th> </tr> </thead> <tbody> <tr> <td>Gaz cogé</td> <td>a</td> <td>9,0%</td> <td>20,44</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Gaz</td> <td>b</td> <td>16,0%</td> <td>49,27</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Fioul</td> <td>c</td> <td>12,0%</td> <td>55,81</td> <td>date de valeur sept 2010</td> </tr> <tr> <td>Bois</td> <td>d</td> <td>63,0%</td> <td>28,39</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Autre</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>R1 CO<sub>2</sub></td> <td></td> <td></td> <td>0,18</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td colspan="2"></td> <td>100,0%</td> <td></td> <td></td> </tr> </tbody> </table> |  |  |  |  |  | Coef % | Val base |  | Gaz cogé | a | 9,0% | 20,44 | date de valeur 01 mai 2014 | Gaz | b | 16,0% | 49,27 | date de valeur 01 mai 2014 | Fioul | c | 12,0% | 55,81 | date de valeur sept 2010 | Bois | d | 63,0% | 28,39 | date de valeur 01 mai 2014 | Autre |  |  |  |  | R1 CO <sub>2</sub> |  |  | 0,18 | date de valeur 01 mai 2014 |  |  | 100,0% |  |  |
|  |           | Coef %   | Val base                               |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Gaz cogé                               | a         | 9,0%   | 20,44                                  | date de valeur 01 mai 2014   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Gaz                                    | b         | 16,0%  | 49,27                                  | date de valeur 01 mai 2014   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Fioul                                  | c         | 12,0%  | 55,81                                  | date de valeur sept 2010   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Bois                                   | d         | 63,0%  | 28,39                                  | date de valeur 01 mai 2014   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Autre                                  |           |  |  |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| R1 CO <sub>2</sub>                     |           |  | 0,18                                   | date de valeur 01 mai 2014   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
|  |           | 100,0%   |  |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| FOD                                    | = 247,78  | FOD  | = 197,86                               |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| ICHT-IME                               | = 100,90  | ICHT-IME   | = 116,30                               |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| ICHT rev TS                            | = 100,90  | ICHTrev TS   | =                                      |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| IT "date de valeur 01 mai 2014"        | = 136,22  | IT   | = 127,97                               |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| A38CC                                  | = 101,30  | A38CC  | =                                      |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| FSD1 "date de valeur 01 mai 2014"      | = 129,60  | FSD1   | = 120,50                               |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| FSD1                                   | = 118,10  | FSD1   | =                                      |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| FSD2                                   | = 117,10  | FSD2   | = 120,80                               |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| BT40                                   | = 952,30  | BT40   | = 1019,04                              |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| G0 "date de valeur 01 mai 2014"        | = 34,70   | G  | = 27,34                                |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| BT40 (révision R1 cogé)                | = 1019,80 | BT40   | = 1019,04                              |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| ICEEB-PF "date de valeur 01 mai 2014"  | = 112,60  | ICEEB-PF   | = 114,40 <sup>1er trimestre 2016</sup> |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| ICEEB-CLA "date de valeur 01 mai 2014" | = 131,50  | ICEEB-CLA  | = 142,10 <sup>1er trimestre 2016</sup> |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |

## CALCUL TERME R1

R1c = a x R1cogé + b x R1gaz + c x R1fioul + d x R1bois + e x R1autres

|          |         |   |   |          |       |       |  |   |       |
|----------|---------|---|---|----------|-------|-------|--|---|-------|
| R1Gaz =  | R1Gazo  | x | $\frac{G}{G_0}$   | R1Gaz=   | 49,27 | x     | $\left( \frac{27,343}{34,700} \right)$   | = | 38,82 |
| R1FOD =  | R1Fodo  | x | $\frac{Fod}{Fodo}$  | R1FOD=   | 55,81 | x     | $\frac{197,86}{247,78}$  | = | 44,57 |
| R1cogé = | R1cogéo | x | $(0,10 + 0,65 \times \frac{G}{C_0} + 0,10 \times \frac{BT40}{BT40_0} + 0,15 \times \frac{FSD1}{FSD1_0})$                    | R1cogé = | 20,44 | x     | $(0,10 + 0,65 \times \frac{27,343}{34,700} + 0,10 \times \frac{1019,04}{1019,80} + 0,15 \times \frac{120,50}{129,60})$ | = | 17,41 |
| R1bois = | R1Boiso | x | $(0,15 + 0,15 \times \frac{IT}{IT_0} + 0,30 \times \frac{ICEEB-PF}{ICEEB-PF_0} + 0,4 \times \frac{ICEEB-CLA}{ICEEB-CLA_0})$ | R1bois = | 28,39 | x     | $(0,15 + 0,15 \times \frac{127,970}{136,220} + 0,30 \times \frac{114,40}{112,60} + 0,4 \times \frac{142,10}{131,50})$  | = | 29,18 |
| R1Mwh =  | 16%     | x | 38,82   | + 12%    | x     | 44,57 | + 9%   | x | 17,41 |
| R1m3 =   | 3,17    |   |   | + 63%    | x     | 29,18 | + 0,18   | = | 31,69 |

## CALCUL TERME R2

|      |       |   |  |   |       |
|------|-------|---|--|---|-------|
| R2 = | R2o   | x | $(0,1 + 0,1 \times \frac{EMT}{EMT_0} + 0,45 \times \frac{ICHT-IME}{ICHT-IME_0} + 0,35 \times \frac{FSD1}{FSD1_0})$ |   |       |
| R2 = | 20,47 | x | $(0,1 + 0,1 \times \frac{170,72}{116,90} + 0,45 \times \frac{116,30}{100,90} + 0,35 \times \frac{120,50}{118,10})$ | = | 22,96 |

## CALCUL TERME R3'

|       |      |   |   |   |      |
|-------|------|---|---|---|------|
| R3' = | R3'o | x | $(0,15 + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0} + 0,55 \times \frac{BT40}{BT40_0})$ |   |      |
| R3' = | 1,66 | x | $(0,15 + 0,3 \times \frac{116,30}{100,90} + 0,55 \times \frac{1019,04}{952,30})$    | = | 1,80 |

## CALCUL TERME R3"

|       |      |   |   |   |      |
|-------|------|---|---|---|------|
| R3" = | R3'o | x | $(0,15 + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0} + 0,55 \times \frac{BT40}{BT40_0})$ |   |      |
| R3" = | 1    | x | $(0,15 + 0,3 \times \frac{116,30}{100,90} + 0,55 \times \frac{1019,04}{952,30})$    | = | 1,08 |

## CALCUL TERME R4' TC

Faut-il maintenir cette redevance, l'avenant 4 ne fait pas référence au R4

|       |       |   |   |       |       |
|-------|-------|---|---|-------|-------|
| R4' = | R4'o  | x | $(0,1 + 0,6 \times \frac{BT40}{BT40_0} + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0})$ | 16,30 |       |
| R4' = | 14,98 | x | $(0,1 + 0,6 \times \frac{1019,04}{952,30} + 0,3 \times \frac{116,30}{100,90})$    | =     | 16,11 |

Actualisation à la mise en service

## CALCUL TERME R5

|      |      |   |   |   |      |
|------|------|---|---|---|------|
| R5 = | R5o  | x | $(0,1 + 0,6 \times \frac{BT40}{BT40_0} + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0})$ |   |      |
| R5 = | 2,31 | x | $(0,1 + 0,6 \times \frac{1019,04}{952,30} + 0,3 \times \frac{116,30}{100,90})$    | = | 2,51 |

Valeur en mai 2014 MAI

|                            |                  | 2016                 |        |        |              |                         |       |       |              |
|----------------------------|------------------|----------------------|--------|--------|--------------|-------------------------|-------|-------|--------------|
|                            |                  | Contrats 2014 - 2015 |        |        |              | Mis à jour tarif mois n |       |       |              |
|                            |                  | LV                   | FT     | FB     | Global av4   | LV                      | FT    | FB    | Mois n       |
| Conso                      | MWh PCS          | 28 672               | 7 700  | 3 650  | 40 022       | 28 672                  | 7 700 | 3 650 | 40 022       |
| PEG NORD_MA                | €/MWh pcs        | 21,13                | 21,13  | 21,13  | 21,13        | 12,06                   | 12,06 | 12,06 | 12,06        |
| Prix fournisseur           | €/MWh pcs        | 2,81                 | 0,77   | 0,77   | 2,23         | 3,60                    | 0,77  | 0,77  | 2,80         |
| Terme variable             | €/MWh pcs        | 0,76                 | 5,28   | 5,28   | 2,04         | 0,79                    | 5,65  | 5,65  | 2,17         |
| Stockage                   | €/MWh pcs        | 2,04                 | 1,78   | 1,78   | 1,97         | 2,04                    | 1,78  | 1,78  | 1,97         |
| <b>Prix de ma molécule</b> | <b>€/MWh pcs</b> |                      |        |        | <b>27,37</b> |                         |       |       | <b>18,99</b> |
| TSS                        | €/MWh pcs        | 0,2                  | 0,2    | 0,2    | 0,20         | -                       | -     | -     | 0,00         |
| Biométhane                 | €/MWh pcs        | 0,0072               | 0,0072 | 0,0072 | 0,01         | -                       | -     | -     | 0,00         |
| TICGN                      | €/MWh pcs        | 1,19                 | 1,19   | 1,27   | 1,20         | 1,52                    | 1,52  | 4,34  | 1,78         |
| <b>Taxes</b>               | <b>€/MWh pcs</b> |                      |        |        | <b>1,41</b>  |                         |       |       | <b>1,78</b>  |

|                       |          | 183 409 | 36 092 | 17 590 | 237 091     | 200 650  | 42 126 | 20 450 | 263 226     |
|-----------------------|----------|---------|--------|--------|-------------|----------|--------|--------|-------------|
| <b>Terme fixe</b>     | <b>€</b> |         |        |        |             |          |        |        |             |
| TCS                   |          | 89,32   | 89,32  | 89,32  |             | 99,93    | 99,93  | 99,93  |             |
| TCR                   |          | 64,42   | 64,42  | 64,42  |             | 72,07    | 72,07  | 72,07  |             |
| NTR                   |          | 2       | 2      | 2      |             | 2        | 2      | 2      |             |
| TCL                   |          | 33,92   | 33,92  | 33,92  |             | 37,96    | 37,96  | 37,96  |             |
| CJn                   |          | 340     | 133,50 | 63,40  |             | 340      | 139,55 | 66,15  |             |
| AbtD                  |          | 14296,8 | 707,64 | 707,64 |             | 15295,56 | 757,08 | 757,08 |             |
| Nb_PCE                |          | 1       | 1      | 1      |             | 1        | 1      | 1      |             |
| TSACJ                 |          | 186     |        |        |             | 199,08   |        |        |             |
| taux CTA transport    |          | 0,0471  | 0,0471 | 0,0471 |             | 0,0471   | 0,0471 | 0,0471 |             |
| taux CTA distribution |          | 0,208   | 0,208  | 0,208  |             | 0,208    | 0,208  | 0,208  |             |
| <b>Terme fixe</b>     |          |         |        |        | <b>5,92</b> |          |        |        | <b>6,58</b> |

= variation mensuelle  
 = variation annuelle  
 = variation selon contrat d'appro

G<sub>0</sub> 34,70

$$G = G_0 (Peg - Peg_0) + (Taxe - taxe_0) + (Prime\ fixe - Prime\ fixe_0) / MWh\ gaz$$

**G** 27,34

## SEFIR

### DELEGATION DU SERVICE PUBLIC DE PRODUCTION ET DE DISTRIBUTION DE CHAUFFAGE URBAIN

*Avenant n°4*

#### TARIF DE VENTE (HTVA) Tranche Conditionnelle

pour le mois de : **JUIN 2016**

#### 1- Eléments proportionnel

R1c ENERGIE = 32,57 € HT / MWh

R1 EAU CHAUDE SANITAIRE = 3,26 € HT / M3

#### 2- Eléments fixe

R2 PRESTATIONS = 22,89 € HT / Kw

R3' ENTRETIEN CENTRALE ET S/ST = 1,80 € HT / Kw

R3" ENTRETIEN RESEAU = 1,08 € HT / Kw

R4' AMORTISSEMENT TRAVAUX = 16,11 € HT / Kw

R5 EXTENSIONS DU RESEAU = 2,51 € HT/Kw

TOTAL R2 = 44,40 € HT/Kw

## SEFIR

## JUSTIFICATION DU TARIF DE VENTE(HTVA)

Pour le mois de : **JUIN 2016**

| VALEURS DE BASE DES INDICES            |           | INDICES CONNUS AU : 31/01/2016   |   | TARIF DE BASE TRANCHE FERME  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
|--|-----------|--|---|--|--|--|--|--|--|--------|----------|--|----------|---|------|-------|----------------------------|-----|---|-------|-------|----------------------------|-------|---|-------|-------|--------------------------|------|---|-------|-------|----------------------------|-------|--|--|--|--|--------------------|--|--|------|----------------------------|--|--|--------|--|--|
| EMT                                    | = 116,90  | ELMT (EMT indice remplacé par ELMT tarif vert A5 351107 - coefficient de rattachement 1) | = 166,78  | <table border="1"> <thead> <tr> <th colspan="2"></th> <th>Coef %</th> <th>Val base</th> <th></th> </tr> </thead> <tbody> <tr> <td>Gaz cogé</td> <td>a</td> <td>9,0%</td> <td>20,44</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Gaz</td> <td>b</td> <td>16,0%</td> <td>49,27</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Fioul</td> <td>c</td> <td>12,0%</td> <td>55,81</td> <td>date de valeur sept 2010</td> </tr> <tr> <td>Bois</td> <td>d</td> <td>63,0%</td> <td>28,39</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Autre</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>R1 CO<sub>2</sub></td> <td></td> <td></td> <td>0,18</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td></td> <td></td> <td>100,0%</td> <td></td> <td></td> </tr> </tbody> </table> |  |  |  |  |  | Coef % | Val base |  | Gaz cogé | a | 9,0% | 20,44 | date de valeur 01 mai 2014 | Gaz | b | 16,0% | 49,27 | date de valeur 01 mai 2014 | Fioul | c | 12,0% | 55,81 | date de valeur sept 2010 | Bois | d | 63,0% | 28,39 | date de valeur 01 mai 2014 | Autre |  |  |  |  | R1 CO <sub>2</sub> |  |  | 0,18 | date de valeur 01 mai 2014 |  |  | 100,0% |  |  |
|  |           | Coef %   | Val base  |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Gaz cogé                               | a         | 9,0%   | 20,44   | date de valeur 01 mai 2014   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Gaz                                    | b         | 16,0%  | 49,27   | date de valeur 01 mai 2014   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Fioul                                  | c         | 12,0%  | 55,81   | date de valeur sept 2010   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Bois                                   | d         | 63,0%  | 28,39   | date de valeur 01 mai 2014   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Autre                                  |           |  |   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| R1 CO <sub>2</sub>                     |           |  | 0,18  | date de valeur 01 mai 2014   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
|  |           | 100,0%   |   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| FOD                                    | = 247,78  | FOD  | = 219,49  |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| ICHT-IME                               | = 100,90  | ICHT-IME   | = 116,30  |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| ICHT rev TS                            | = 100,90  | ICHTrev TS   | =   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| IT "date de valeur 01 mai 2014"        | = 136,22  | IT   | = 129,46  |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| A38CC                                  | = 101,30  | A38CC  | =   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| FSD1 "date de valeur 01 mai 2014"      | = 129,60  | FSD1   | = 120,50  |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| FSD1                                   | = 118,10  | FSD1   | =   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| FSD2                                   | = 117,10  | FSD2   | = 120,80  |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| BT40                                   | = 952,30  | BT40   | = 1019,04   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| G0 "date de valeur 01 mai 2014"        | = 34,70   | G  | = 28,36   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| BT40 (révision R1 cogé)                | = 1019,80 | BT40   | = 1019,04   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| ICEEB-PF "date de valeur 01 mai 2014"  | = 112,60  | ICEEB-PF   | = 114,40 <sup>1<sup>er</sup> trimestre 2016</sup> |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| ICEEB-CLA "date de valeur 01 mai 2014" | = 131,50  | ICEEB-CLA  | = 142,10 <sup>1<sup>er</sup> trimestre 2016</sup> |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |

## CALCUL TERME R1

R1c = a x R1cogé + b x R1gaz + c x R1fioul + d x R1bois + e x R1autres

|          |         |   |   |          |       |       |  |   |       |       |   |       |        |   |       |
|----------|---------|---|---|----------|-------|-------|--|---|-------|-------|---|-------|--------|---|-------|
| R1Gaz =  | R1Gazo  | x | $\frac{G}{G_0}$   | R1Gaz=   | 49,27 | x     | $\left( \frac{28,363}{34,700} \right)$   | = | 40,27 |       |   |       |        |   |       |
| R1FOD =  | R1Fodo  | x | $\frac{Fod}{Fodo}$  | R1FOD=   | 55,81 | x     | $\frac{219,49}{247,78}$  | = | 49,44 |       |   |       |        |   |       |
| R1cogé = | R1cogéo | x | $( 0,10 + 0,65 \times \frac{G}{C_0} + 0,10 \times \frac{BT40}{BT40_0} + 0,15 \times \frac{FSD1}{FSD1_0} )$                    | R1cogé = | 20,44 | x     | $( 0,10 + 0,65 \times \frac{28,363}{34,700} + 0,10 \times \frac{1019,04}{1019,80} + 0,15 \times \frac{120,50}{129,60} )$ | = | 17,80 |       |   |       |        |   |       |
| R1bois = | R1Boiso | x | $( 0,15 + 0,15 \times \frac{IT}{IT_0} + 0,30 \times \frac{ICEEB-PF}{ICEEB-PF_0} + 0,4 \times \frac{ICEEB-CLA}{ICEEB-CLA_0} )$ | R1bois = | 28,39 | x     | $( 0,15 + 0,15 \times \frac{129,460}{136,220} + 0,30 \times \frac{114,40}{112,60} + 0,4 \times \frac{142,10}{131,50} )$  | = | 29,23 |       |   |       |        |   |       |
| R1Mwh =  | 16%     | x | 40,27   | + 12%    | x     | 49,44 | + 9%   | x | 17,80 | + 63% | x | 29,23 | + 0,18 | = | 32,57 |
| R1m3 =   | 3,26    |   |   |          |       |       |  |   |       |       |   |       |        |   |       |

## CALCUL TERME R2

|      |       |   |  |   |       |
|------|-------|---|--|---|-------|
| R2 = | R2o   | x | $( 0,1 + 0,1 \times \frac{EMT}{EMT_0} + 0,45 \times \frac{ICHT-IME}{ICHT-IME_0} + 0,35 \times \frac{FSD1}{FSD1_0} )$ |   |       |
| R2 = | 20,47 | x | $( 0,1 + 0,1 \times \frac{166,78}{116,90} + 0,45 \times \frac{116,30}{100,90} + 0,35 \times \frac{120,50}{118,10} )$ | = | 22,89 |

## CALCUL TERME R3'

|       |      |   |   |   |      |
|-------|------|---|---|---|------|
| R3' = | R3'o | x | $( 0,15 + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0} + 0,55 \times \frac{BT40}{BT40_0} )$ |   |      |
| R3' = | 1,66 | x | $( 0,15 + 0,3 \times \frac{116,30}{100,90} + 0,55 \times \frac{1019,04}{952,30} )$    | = | 1,80 |

## CALCUL TERME R3"

|       |      |   |   |   |      |
|-------|------|---|---|---|------|
| R3" = | R3'o | x | $( 0,15 + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0} + 0,55 \times \frac{BT40}{BT40_0} )$ |   |      |
| R3" = | 1    | x | $( 0,15 + 0,3 \times \frac{116,30}{100,90} + 0,55 \times \frac{1019,04}{952,30} )$    | = | 1,08 |

## CALCUL TERME R4' TC

Faut-il maintenir cette redevance, l'avenant 4 ne fait pas référence au R4

|       |       |   |   |       |       |                                    |
|-------|-------|---|---|-------|-------|------------------------------------|
| R4' = | R4'o  | x | $( 0,1 + 0,6 \times \frac{BT40}{BT40_0} + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0} )$ | 16,30 |       |                                    |
| R4' = | 14,98 | x | $( 0,1 + 0,6 \times \frac{1019,04}{952,30} + 0,3 \times \frac{116,30}{100,90} )$    | =     | 16,11 | Actualisation à la mise en service |

## CALCUL TERME R5

|      |      |   |   |   |      |
|------|------|---|---|---|------|
| R5 = | R5o  | x | $( 0,1 + 0,6 \times \frac{BT40}{BT40_0} + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0} )$ |   |      |
| R5 = | 2,31 | x | $( 0,1 + 0,6 \times \frac{1019,04}{952,30} + 0,3 \times \frac{116,30}{100,90} )$    | = | 2,51 |

Valeur en mai 2014 JUIN

|                            |                  | 2016                 |        |        |              |                         |       |       |              |
|----------------------------|------------------|----------------------|--------|--------|--------------|-------------------------|-------|-------|--------------|
|                            |                  | Contrats 2014 - 2015 |        |        |              | Mis à jour tarif mois n |       |       |              |
|                            |                  | LV                   | FT     | FB     | Global av4   | LV                      | FT    | FB    | Mois n       |
| Conso                      | MWh PCS          | 28 672               | 7 700  | 3 650  | 40 022       | 28 672                  | 7 700 | 3 650 | 40 022       |
| PEG NORD_MA                | €/MWh pcs        | 21,13                | 21,13  | 21,13  | 21,13        | 13,08                   | 13,08 | 13,08 | 13,08        |
| Prix fournisseur           | €/MWh pcs        | 2,81                 | 0,77   | 0,77   | 2,23         | 3,60                    | 0,77  | 0,77  | 2,80         |
| Terme variable             | €/MWh pcs        | 0,76                 | 5,28   | 5,28   | 2,04         | 0,79                    | 5,65  | 5,65  | 2,17         |
| Stockage                   | €/MWh pcs        | 2,04                 | 1,78   | 1,78   | 1,97         | 2,04                    | 1,78  | 1,78  | 1,97         |
| <b>Prix de ma molécule</b> | <b>€/MWh pcs</b> |                      |        |        | <b>27,37</b> |                         |       |       | <b>20,01</b> |
| TSS                        | €/MWh pcs        | 0,2                  | 0,2    | 0,2    | 0,20         | -                       | -     | -     | 0,00         |
| Biométhane                 | €/MWh pcs        | 0,0072               | 0,0072 | 0,0072 | 0,01         | -                       | -     | -     | 0,00         |
| TICGN                      | €/MWh pcs        | 1,19                 | 1,19   | 1,27   | 1,20         | 1,52                    | 1,52  | 4,34  | 1,78         |
| <b>Taxes</b>               | <b>€/MWh pcs</b> |                      |        |        | <b>1,41</b>  |                         |       |       | <b>1,78</b>  |

| Terme fixe            | € | 183 409 | 36 092 | 17 590 | 237 091     | 200 650  | 42 126 | 20 450 | 263 226     |
|-----------------------|---|---------|--------|--------|-------------|----------|--------|--------|-------------|
| TCS                   |   | 89,32   | 89,32  | 89,32  |             | 99,93    | 99,93  | 99,93  |             |
| TCR                   |   | 64,42   | 64,42  | 64,42  |             | 72,07    | 72,07  | 72,07  |             |
| NTR                   |   | 2       | 2      | 2      |             | 2        | 2      | 2      |             |
| TCL                   |   | 33,92   | 33,92  | 33,92  |             | 37,96    | 37,96  | 37,96  |             |
| CJn                   |   | 340     | 133,50 | 63,40  |             | 340      | 139,55 | 66,15  |             |
| AbtD                  |   | 14296,8 | 707,64 | 707,64 |             | 15295,56 | 757,08 | 757,08 |             |
| Nb_PCE                |   | 1       | 1      | 1      |             | 1        | 1      | 1      |             |
| TSACJ                 |   | 186     |        |        |             | 199,08   |        |        |             |
| taux CTA transport    |   | 0,0471  | 0,0471 | 0,0471 |             | 0,0471   | 0,0471 | 0,0471 |             |
| taux CTA distribution |   | 0,208   | 0,208  | 0,208  |             | 0,208    | 0,208  | 0,208  |             |
| <b>Terme fixe</b>     |   |         |        |        | <b>5,92</b> |          |        |        | <b>6,58</b> |

= variation mensuelle  
 = variation annuelle  
 = variation selon contrat d'appro

G<sub>0</sub> 34,70

$$G = G_0 (Peg - Peg_0) + (Taxe - taxe_0) + (Prime\ fixe - Prime\ fixe_0) / MWh\ gaz$$

**G 28,36**

## SEFIR

### DELEGATION DU SERVICE PUBLIC DE PRODUCTION ET DE DISTRIBUTION DE CHAUFFAGE URBAIN

*Avenant n° 4*

#### TARIF DE VENTE (HTVA) Tranche Conditionnelle

pour le mois de : **JUILLET 2016**

#### 1- Eléments proportionnel

R1c ENERGIE = 33,22 €HT / MWh

R1 EAU CHAUDE SANITAIRE = 3,32 €HT / M3

#### 2- Eléments fixe

R2 PRESTATIONS = 22,93 €HT / Kw

R3' ENTRETIEN CENTRALE ET S/ST = 1,80 €HT / Kw

R3" ENTRETIEN RESEAU = 1,09 €HT / Kw

R4' AMORTISSEMENT TRAVAUX = 16,11 €HT / Kw

R5 EXTENSIONS DU RESEAU = 2,52 €HT/Kw

TOTAL R2 44,45 €HT/Kw

## SEFIR

## JUSTIFICATION DU TARIF DE VENTE(HTVA)

Pour le mois de : **JUILLET 2016**

| VALEURS DE BASE DES INDICES            |           | INDICES CONNUS AU : 31/01/2016   |   | TARIF DE BASE TRANCHE FERME  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
|--|-----------|--|---|--|--|--|--|--|--|--------|----------|--|----------|---|------|-------|----------------------------|-----|---|-------|-------|----------------------------|-------|---|-------|-------|--------------------------|------|---|-------|-------|----------------------------|-------|--|--|--|--|--------------------|--|--|------|----------------------------|--|--|--------|--|--|
| EMT                                    | = 116,90  | ELMT (EMT indice remplacé par ELMT tarif vert A5 351107 - coefficient de rattachement 1) | = 164,26  | <table border="1"> <thead> <tr> <th colspan="2"></th> <th>Coef %</th> <th>Val base</th> <th></th> </tr> </thead> <tbody> <tr> <td>Gaz cogé</td> <td>a</td> <td>9,0%</td> <td>20,44</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Gaz</td> <td>b</td> <td>16,0%</td> <td>49,27</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Fioul</td> <td>c</td> <td>12,0%</td> <td>55,81</td> <td>date de valeur sept 2010</td> </tr> <tr> <td>Bois</td> <td>d</td> <td>63,0%</td> <td>28,39</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Autre</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>R1 CO<sub>2</sub></td> <td></td> <td></td> <td>0,18</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td></td> <td></td> <td>100,0%</td> <td></td> <td></td> </tr> </tbody> </table> |  |  |  |  |  | Coef % | Val base |  | Gaz cogé | a | 9,0% | 20,44 | date de valeur 01 mai 2014 | Gaz | b | 16,0% | 49,27 | date de valeur 01 mai 2014 | Fioul | c | 12,0% | 55,81 | date de valeur sept 2010 | Bois | d | 63,0% | 28,39 | date de valeur 01 mai 2014 | Autre |  |  |  |  | R1 CO <sub>2</sub> |  |  | 0,18 | date de valeur 01 mai 2014 |  |  | 100,0% |  |  |
|  |           | Coef %   | Val base  |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Gaz cogé                               | a         | 9,0%   | 20,44   | date de valeur 01 mai 2014   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Gaz                                    | b         | 16,0%  | 49,27   | date de valeur 01 mai 2014   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Fioul                                  | c         | 12,0%  | 55,81   | date de valeur sept 2010   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Bois                                   | d         | 63,0%  | 28,39   | date de valeur 01 mai 2014   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Autre                                  |           |  |   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| R1 CO <sub>2</sub>                     |           |  | 0,18  | date de valeur 01 mai 2014   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
|  |           | 100,0%   |   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| FOD                                    | = 247,78  | FOD  | = 228,67  |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| ICHT-IME                               | = 100,90  | ICHT-IME   | = 117,10  |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| ICHT rev TS                            | = 100,90  | ICHTrev TS   | =   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| IT "date de valeur 01 mai 2014"        | = 136,22  | IT   | = 130,04  |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| A38CC                                  | = 101,30  | A38CC  | =   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| FSD1 "date de valeur 01 mai 2014"      | = 129,60  | FSD1   | = 120,60  |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| FSD1                                   | = 118,10  | FSD1   | =   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| FSD2                                   | = 117,10  | FSD2   | = 121,00  |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| BT40                                   | = 952,30  | BT40   | = 1020,02   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| G0 "date de valeur 01 mai 2014"        | = 34,70   | G  | = 29,84   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| BT40 (révision R1 cogé)                | = 1019,80 | BT40   | = 1020,02   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| ICEEB-PF "date de valeur 01 mai 2014"  | = 112,60  | ICEEB-PF   | = 114,40 <sup>1<sup>er</sup> trimestre 2016</sup> |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| ICEEB-CLA "date de valeur 01 mai 2014" | = 131,50  | ICEEB-CLA  | = 142,10 <sup>1<sup>er</sup> trimestre 2016</sup> |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |

## CALCUL TERME R1

R1c = a x R1cogé + b x R1gaz + c x R1fioul + d x R1bois + e x R1autres

|          |         |   |   |        |       |       |  |   |       |
|----------|---------|---|---|--------|-------|-------|--|---|-------|
| R1Gaz =  | R1Gazo  | x | $\frac{G}{G_0}$   | R1Gaz= | 49,27 | x     | $\left( \frac{29,842}{34,700} \right)$ | = | 42,37 |
| R1FOD =  | R1Fodo  | x | $\frac{Fod}{Fodo}$  | R1FOD= | 55,81 | x     | $\frac{228,67}{247,78}$                | = | 51,51 |
| R1cogé = | R1cogéo | x | $( 0,10 + 0,65 \times \frac{G}{C_0} + 0,10 \times \frac{BT40}{BT40_0} + 0,15 \times \frac{FSD1}{FSD1_0} )$                    |        |       |       |  |   |       |
| R1cogé = | 20,44   | x | $( 0,10 + 0,65 \times \frac{29,842}{34,700} + 0,10 \times \frac{1\ 020,02}{1019,80} + 0,15 \times \frac{120,60}{129,60} )$    |        |       |       |  | = | 18,37 |
| R1bois = | R1Boiso | x | $( 0,15 + 0,15 \times \frac{IT}{IT_0} + 0,30 \times \frac{ICEEB-PF}{ICEEB-PF_0} + 0,4 \times \frac{ICEEB-CLA}{ICEEB-CLA_0} )$ |        |       |       |  |   |       |
| R1bois = | 28,39   | x | $( 0,15 + 0,15 \times \frac{130,040}{136,220} + 0,30 \times \frac{114,40}{112,60} + 0,4 \times \frac{142,10}{131,50} )$       |        |       |       |  | = | 29,25 |
| R1Mwh =  | 16%     | x | 42,37   | + 12%  | x     | 51,51 | + 9%                                   | x | 18,37 |
| R1m3 =   | 3,32    |   |   | + 63%  | x     | 29,25 | + 0,18                                 | = | 33,22 |

## CALCUL TERME R2

|      |       |   |  |  |  |  |  |   |       |
|------|-------|---|--|--|--|--|--|---|-------|
| R2 = | R2o   | x | $( 0,1 + 0,1 \times \frac{EMT}{EMT_0} + 0,45 \times \frac{ICHT-IME}{ICHT-IME_0} + 0,35 \times \frac{FSD1}{FSD1_0} )$ |  |  |  |  |   |       |
| R2 = | 20,47 | x | $( 0,1 + 0,1 \times \frac{164,26}{116,90} + 0,45 \times \frac{117,10}{100,90} + 0,35 \times \frac{120,60}{118,10} )$ |  |  |  |  | = | 22,93 |

## CALCUL TERME R3'

|       |      |   |   |  |  |  |  |   |      |
|-------|------|---|---|--|--|--|--|---|------|
| R3' = | R3'o | x | $( 0,15 + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0} + 0,55 \times \frac{BT40}{BT40_0} )$ |  |  |  |  |   |      |
| R3' = | 1,66 | x | $( 0,15 + 0,3 \times \frac{117,10}{100,90} + 0,55 \times \frac{1020,02}{952,30} )$    |  |  |  |  | = | 1,80 |

## CALCUL TERME R3"

|       |      |   |   |  |  |  |  |   |      |
|-------|------|---|---|--|--|--|--|---|------|
| R3" = | R3'o | x | $( 0,15 + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0} + 0,55 \times \frac{BT40}{BT40_0} )$ |  |  |  |  |   |      |
| R3" = | 1    | x | $( 0,15 + 0,3 \times \frac{117,10}{100,90} + 0,55 \times \frac{1020,02}{952,30} )$    |  |  |  |  | = | 1,09 |

## CALCUL TERME R4' TC

Faut-il maintenir cette redevance, l'avenant 4 ne fait pas référence au R4

|       |       |   |   |  |  |  |  |   |       |
|-------|-------|---|---|--|--|--|--|---|-------|
| R4' = | R4'o  | x | $( 0,1 + 0,6 \times \frac{BT40}{BT40_0} + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0} )$ |  |  |  |  |   | 16,34 |
| R4' = | 14,98 | x | $( 0,1 + 0,6 \times \frac{1020,02}{952,30} + 0,3 \times \frac{117,10}{100,90} )$    |  |  |  |  | = | 16,11 |

Actualisation à la mise en service

## CALCUL TERME R5

|      |     |   |   |  |  |  |  |  |  |
|------|-----|---|---|--|--|--|--|--|--|
| R5 = | R5o | x | $( 0,1 + 0,6 \times \frac{BT40}{BT40_0} + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0} )$ |  |  |  |  |  |  |
|------|-----|---|---|--|--|--|--|--|--|

Valeur en mai 2014

|                            |                  | Contrats 2014 - 2015 |        |        |              | Mis à jour tarif mois n |       |       |              |
|----------------------------|------------------|----------------------|--------|--------|--------------|-------------------------|-------|-------|--------------|
|                            |                  | LV                   | FT     | FB     | Global av4   | LV                      | FT    | FB    | Mois n       |
| Conso                      | MWh PCS          | 28 672               | 7 700  | 3 650  | 40 022       | 28 672                  | 7 700 | 3 650 | 40 022       |
| PEG NORD_MA                | €/MWh pcs        | 21,13                | 21,13  | 21,13  | 21,13        | 14,42                   | 14,42 | 14,42 | 14,42        |
| Prix fournisseur           | €/MWh pcs        | 2,81                 | 0,77   | 0,77   | 2,23         | 3,60                    | 0,77  | 0,77  | 2,80         |
| Terme variable             | €/MWh pcs        | 0,76                 | 5,28   | 5,28   | 2,04         | 0,82                    | 5,82  | 5,82  | 2,24         |
| Stockage                   | €/MWh pcs        | 2,04                 | 1,78   | 1,78   | 1,97         | 2,04                    | 1,78  | 1,78  | 1,97         |
| <b>Prix de ma molécule</b> | <b>€/MWh pcs</b> |                      |        |        | <b>27,37</b> |                         |       |       | <b>21,42</b> |
| TSS                        | €/MWh pcs        | 0,2                  | 0,2    | 0,2    | 0,20         | -                       | -     | -     | 0,00         |
| Biométhane                 | €/MWh pcs        | 0,0072               | 0,0072 | 0,0072 | 0,01         | -                       | -     | -     | 0,00         |
| TICGN                      | €/MWh pcs        | 1,19                 | 1,19   | 1,27   | 1,20         | 1,52                    | 1,52  | 4,34  | 1,78         |
| <b>Taxes</b>               | <b>€/MWh pcs</b> |                      |        |        | <b>1,41</b>  |                         |       |       | <b>1,78</b>  |

|                       | € | 183 409 | 36 092 | 17 590 | 237 091     | 203 427  | 42 134 | 20 458 | 266 019     |
|-----------------------|---|---------|--------|--------|-------------|----------|--------|--------|-------------|
| Terme fixe            | € |         |        |        |             |          |        |        |             |
| TCS                   |   | 89,32   | 89,32  | 89,32  |             | 99,93    | 99,93  | 99,93  |             |
| TCR                   |   | 64,42   | 64,42  | 64,42  |             | 72,07    | 72,07  | 72,07  |             |
| NTR                   |   | 2       | 2      | 2      |             | 2        | 2      | 2      |             |
| TCL                   |   | 33,92   | 33,92  | 33,92  |             | 37,96    | 37,96  | 37,96  |             |
| CJn                   |   | 340     | 133,50 | 63,40  |             | 340      | 139,55 | 66,15  |             |
| AbtD                  |   | 14296,8 | 707,64 | 707,64 |             | 15717,36 | 764,4  | 764,4  |             |
| Nb_PCE                |   | 1       | 1      | 1      |             | 1        | 1      | 1      |             |
| TSACJ                 |   | 186     |        |        |             | 204,6    |        |        |             |
| taux CTA transport    |   | 0,0471  | 0,0471 | 0,0471 |             | 0,0471   | 0,0471 | 0,0471 |             |
| taux CTA distribution |   | 0,208   | 0,208  | 0,208  |             | 0,208    | 0,208  | 0,208  |             |
| <b>Terme fixe</b>     |   |         |        |        | <b>5,92</b> |          |        |        | <b>6,65</b> |

- = variation mensuelle
- = variation annuelle LE 01/04
- = variation selon contrat d'appro
- = variation annuelle le 01/01
- = variation annuelle le 1/07

G<sub>0</sub> 34,70

$$G = G_0 (Peg - Peg_0) + (Taxe - taxe_0) + (Prime\ fixe - Prime\ fixe_0) / MWh\ gaz$$

**G** 29,84

# SEFIR

## DELEGATION DU SERVICE PUBLIC DE PRODUCTION ET DE DISTRIBUTION DE CHAUFFAGE URBAIN

*Avenant n° 4*

### TARIF DE VENTE (HTVA) Tranche Conditionnelle

pour le mois de : **AOÛT 2016**

#### 1- Éléments proportionnel

R1c ENERGIE = 32,76 €HT / MWh

R1 EAU CHAUDE SANITAIRE = 3,28 €HT / M3

#### 2- Éléments fixe

R2 PRESTATIONS = 22,72 €HT / Kw

R3' ENTRETIEN CENTRALE ET S/ST = 1,81 €HT / Kw

R3" ENTRETIEN RESEAU = 1,09 €HT / Kw

R4' AMORTISSEMENT TRAVAUX = 16,11 €HT / Kw

R5 EXTENSIONS DU RESEAU = 2,52 €HT/Kw

TOTAL R2 44,25 €HT/Kw

## SEFIR

## JUSTIFICATION DU TARIF DE VENTE(HTVA)

Pour le mois de : **AOUT 2016**

| VALEURS DE BASE DES INDICES            |           | INDICES CONNUS AU : 31/01/2016   |   | TARIF DE BASE TRANCHE FERME  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
|--|-----------|--|---|--|--|--|--|--|--|--------|----------|--|----------|---|------|-------|----------------------------|-----|---|-------|-------|----------------------------|-------|---|-------|-------|--------------------------|------|---|-------|-------|----------------------------|-------|--|--|--|--|--------------------|--|--|------|----------------------------|--|--|--------|--|--|
| EMT                                    | = 116,90  | ELMT (EMT indice remplacé par ELMT tarif vert A5 351107 - coefficient de rattachement 1) | = 147,55  | <table border="1"> <thead> <tr> <th colspan="2"></th> <th>Coef %</th> <th>Val base</th> <th></th> </tr> </thead> <tbody> <tr> <td>Gaz cogé</td> <td>a</td> <td>9,0%</td> <td>20,44</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Gaz</td> <td>b</td> <td>16,0%</td> <td>49,27</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Fioul</td> <td>c</td> <td>12,0%</td> <td>55,81</td> <td>date de valeur sept 2010</td> </tr> <tr> <td>Bois</td> <td>d</td> <td>63,0%</td> <td>28,39</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Autre</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>R1 CO<sub>2</sub></td> <td></td> <td></td> <td>0,18</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td></td> <td></td> <td>100,0%</td> <td></td> <td></td> </tr> </tbody> </table> |  |  |  |  |  | Coef % | Val base |  | Gaz cogé | a | 9,0% | 20,44 | date de valeur 01 mai 2014 | Gaz | b | 16,0% | 49,27 | date de valeur 01 mai 2014 | Fioul | c | 12,0% | 55,81 | date de valeur sept 2010 | Bois | d | 63,0% | 28,39 | date de valeur 01 mai 2014 | Autre |  |  |  |  | R1 CO <sub>2</sub> |  |  | 0,18 | date de valeur 01 mai 2014 |  |  | 100,0% |  |  |
|  |           | Coef %   | Val base  |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Gaz cogé                               | a         | 9,0%   | 20,44   | date de valeur 01 mai 2014   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Gaz                                    | b         | 16,0%  | 49,27   | date de valeur 01 mai 2014   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Fioul                                  | c         | 12,0%  | 55,81   | date de valeur sept 2010   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Bois                                   | d         | 63,0%  | 28,39   | date de valeur 01 mai 2014   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Autre                                  |           |  |   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| R1 CO <sub>2</sub>                     |           |  | 0,18  | date de valeur 01 mai 2014   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
|  |           | 100,0%   |   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| FOD                                    | = 247,78  | FOD  | = 216,61  |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| ICHT-IME                               | = 100,90  | ICHT-IME   | = 117,10  |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| ICHT rev TS                            | = 100,90  | ICHTrev TS   | = 171,74  |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| IT "date de valeur 01 mai 2014"        | = 136,22  | IT   | = 128,50  |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| A38CC                                  | = 101,30  | A38CC  | =   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| FSD1 "date de valeur 01 mai 2014"      | = 129,60  | FSD1   | = 122,00  |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| FSD1                                   | = 118,10  |  |   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| FSD2                                   | = 117,10  | FSD2   | = 122,00  |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| BT40                                   | = 952,30  | BT40   | = 1021,01   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| G0 "date de valeur 01 mai 2014"        | = 34,70   | G  | = 29,43   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| BT40 (révision R1 cogé)                | = 1019,80 | BT40   | = 1021,01   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| ICEEB-PF "date de valeur 01 mai 2014"  | = 112,60  | ICEEB-PF   | = 114,40 <sup>1<sup>er</sup> trimestre 2016</sup> |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| ICEEB-CLA "date de valeur 01 mai 2014" | = 131,50  | ICEEB-CLA  | = 142,10 <sup>1<sup>er</sup> trimestre 2016</sup> |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |

## CALCUL TERME R1

R1c = a x R1cogé + b x R1gaz + c x R1fioul + d x R1bois + e x R1autres

|          |         |   |   |   |        |       |       |                                      |    |       |       |   |     |   |       |   |      |   |       |
|----------|---------|---|---|---|--------|-------|-------|--------------------------------------|----|-------|-------|---|-----|---|-------|---|------|---|-------|
| R1Gaz =  | R1Gazo  | x | $\frac{G}{G_0}$   |   | R1Gaz= | 49,27 | x     | $\left( \frac{29,43}{34,70} \right)$ | =  | 41,79 |       |   |     |   |       |   |      |   |       |
| R1FOD =  | R1Fodo  | x | $\frac{Fod}{Fodo}$  |   | R1FOD= | 55,81 | x     | $\frac{216,61}{247,78}$              | =  | 48,79 |       |   |     |   |       |   |      |   |       |
| R1cogé = | R1cogéo | x | $( 0,10 + 0,65 \times \frac{G}{C_0} + 0,10 \times \frac{BT40}{BT40_0} + 0,15 \times \frac{FSD1}{FSD1_0} )$                    |   |        |       |       |                                      |    |       |       |   |     |   |       |   |      |   |       |
| R1cogé = | 20,44   | x | $( 0,10 + 0,65 \times \frac{29,43}{34,70} + 0,10 \times \frac{1021,01}{1019,80} + 0,15 \times \frac{122,00}{129,60} )$        |   |        |       |       |                                      | =  | 18,25 |       |   |     |   |       |   |      |   |       |
| R1bois = | R1Boiso | x | $( 0,15 + 0,15 \times \frac{IT}{IT_0} + 0,30 \times \frac{ICEEB-PF}{ICEEB-PF_0} + 0,4 \times \frac{ICEEB-CLA}{ICEEB-CLA_0} )$ |   |        |       |       |                                      |    |       |       |   |     |   |       |   |      |   |       |
| R1bois = | 28,39   | x | $( 0,15 + 0,15 \times \frac{128,50}{136,220} + 0,30 \times \frac{114,40}{112,60} + 0,4 \times \frac{142,10}{131,50} )$        |   |        |       |       |                                      | =  | 29,20 |       |   |     |   |       |   |      |   |       |
| R1Mwh =  | 16%     | x | 41,79   | + | 12%    | x     | 48,79 | +                                    | 9% | x     | 18,25 | + | 63% | x | 29,20 | + | 0,18 | = | 32,76 |
| R1m3=    | 3,28    |   |   |   |        |       |       |                                      |    |       |       |   |     |   |       |   |      |   |       |

## CALCUL TERME R2

|      |       |   |  |  |  |  |  |  |   |       |
|------|-------|---|--|--|--|--|--|--|---|-------|
| R2 = | R2o   | x | $( 0,1 + 0,1 \times \frac{EMT}{EMT_0} + 0,45 \times \frac{ICHT-IME}{ICHT-IME_0} + 0,35 \times \frac{FSD1}{FSD1_0} )$ |  |  |  |  |  |   |       |
| R2 = | 20,47 | x | $( 0,1 + 0,1 \times \frac{147,55}{116,90} + 0,45 \times \frac{117,10}{100,90} + 0,35 \times \frac{122,00}{118,10} )$ |  |  |  |  |  | = | 22,72 |

## CALCUL TERME R3'

|       |      |   |   |  |  |  |  |  |   |      |
|-------|------|---|---|--|--|--|--|--|---|------|
| R3' = | R3'o | x | $( 0,15 + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0} + 0,55 \times \frac{BT40}{BT40_0} )$ |  |  |  |  |  |   |      |
| R3' = | 1,66 | x | $( 0,15 + 0,3 \times \frac{117,10}{100,90} + 0,55 \times \frac{1021,01}{952,30} )$    |  |  |  |  |  | = | 1,81 |

## CALCUL TERME R3"

|       |      |   |   |  |  |  |  |  |   |      |
|-------|------|---|---|--|--|--|--|--|---|------|
| R3" = | R3'o | x | $( 0,15 + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0} + 0,55 \times \frac{BT40}{BT40_0} )$ |  |  |  |  |  |   |      |
| R3" = | 1    | x | $( 0,15 + 0,3 \times \frac{117,10}{100,90} + 0,55 \times \frac{1021,01}{952,30} )$    |  |  |  |  |  | = | 1,09 |

## CALCUL TERME R4' TC

Faut-il maintenir cette redevance, l'avenant 4 ne fait pas référence au R4

|       |       |   |   |  |  |  |  |  |   |       |
|-------|-------|---|---|--|--|--|--|--|---|-------|
| R4' = | R4'o  | x | $( 0,1 + 0,6 \times \frac{BT40}{BT40_0} + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0} )$ |  |  |  |  |  |   | 16,35 |
| R4' = | 14,98 | x | $( 0,1 + 0,6 \times \frac{1021,01}{952,30} + 0,3 \times \frac{117,10}{100,90} )$    |  |  |  |  |  | = | 16,11 |

Actualisation à la mise en service

## CALCUL TERME R5

|      |     |   |   |  |  |  |  |  |  |  |
|------|-----|---|---|--|--|--|--|--|--|--|
| R5 = | R5o | x | $( 0,1 + 0,6 \times \frac{BT40}{BT40_0} + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0} )$ |  |  |  |  |  |  |  |
|------|-----|---|---|--|--|--|--|--|--|--|

**AOUT 2016**

Valeur en mai 2014

|                            |                  | Contrats 2014 - 2015 |        |        |              | Mis à jour tarif mois n |       |       |              |
|----------------------------|------------------|----------------------|--------|--------|--------------|-------------------------|-------|-------|--------------|
|                            |                  | LV                   | FT     | FB     | Global av4   | LV                      | FT    | FB    | Mois n       |
| Conso                      | MWh PCS          | 28 672               | 7 700  | 3 650  | 40 022       | 31 122                  | 6 500 | 4 000 | 41 622       |
| PEG NORD_MA                | €/MWh pcs        | 21,13                | 21,13  | 21,13  | 21,13        | 14,34                   | 14,34 | 14,34 | 14,34        |
| Prix fournisseur           | €/MWh pcs        | 2,81                 | 0,77   | 0,77   | 2,23         | 3,60                    | 2,27  | 2,27  | 3,22         |
| Terme variable             | €/MWh pcs        | 0,76                 | 5,28   | 5,28   | 2,04         | 0,82                    | 5,82  | 5,82  | 2,24         |
| Stockage                   | €/MWh pcs        | 2,04                 | 1,78   | 1,78   | 1,97         | 2,04                    | 0,93  | 0,93  | 1,73         |
| <b>Prix de ma molécule</b> | <b>€/MWh pcs</b> |                      |        |        | <b>27,37</b> |                         |       |       | <b>21,53</b> |
| TSS                        | €/MWh pcs        | 0,2                  | 0,2    | 0,2    | 0,20         | -                       | -     | -     | 0,00         |
| Biométhane                 | €/MWh pcs        | 0,0072               | 0,0072 | 0,0072 | 0,01         | -                       | -     | -     | 0,00         |
| TICGN                      | €/MWh pcs        | 1,19                 | 1,19   | 1,27   | 1,20         | 1,52                    | 1,52  | 4,34  | 1,79         |
| <b>Taxes</b>               | <b>€/MWh pcs</b> |                      |        |        | <b>1,41</b>  |                         |       |       | <b>1,79</b>  |

|                       | € | 183 409 | 36 092 | 17 590 | 237 091     | 203 427  | 31 602 | 19 742 | 254 771     |
|-----------------------|---|---------|--------|--------|-------------|----------|--------|--------|-------------|
| <b>Terme fixe</b>     |   |         |        |        |             |          |        |        |             |
| TCS                   |   | 89,32   | 89,32  | 89,32  |             | 99,93    | 99,93  | 99,93  |             |
| TCR                   |   | 64,42   | 64,42  | 64,42  |             | 72,07    | 72,07  | 72,07  |             |
| NTR                   |   | 2       | 2      | 2      |             | 2        | 2      | 2      |             |
| TCL                   |   | 33,92   | 33,92  | 33,92  |             | 37,96    | 37,96  | 37,96  |             |
| CJn                   |   | 340     | 133,50 | 63,40  |             | 340      | 103,89 | 63,72  |             |
| AbtD                  |   | 14296,8 | 707,64 | 707,64 |             | 15717,36 | 764,4  | 764,4  |             |
| Nb_PCE                |   | 1       | 1      | 1      |             | 1        | 1      | 1      |             |
| TSACJ                 |   | 186     |        |        |             | 204,6    |        |        |             |
| taux CTA transport    |   | 0,0471  | 0,0471 | 0,0471 |             | 0,0471   | 0,0471 | 0,0471 |             |
| taux CTA distribution |   | 0,208   | 0,208  | 0,208  |             | 0,208    | 0,208  | 0,208  |             |
| <b>Terme fixe</b>     |   |         |        |        | <b>5,92</b> |          |        |        | <b>6,12</b> |

- = variation mensuelle
- = variation annuelle LE 01/04
- = variation selon contrat d'app
- = variation annuelle le 01/01
- = variation annuelle le 1/07

G<sub>0</sub> 34,70

G = G<sub>0</sub> (Peg-Peg<sub>0</sub>) + (Taxe-tax<sub>e0</sub>) + (Prime fixe-Prime fixe<sub>0</sub>) / MWh gaz

**G** **29,43**

## SEFIR

### DELEGATION DU SERVICE PUBLIC DE PRODUCTION ET DE DISTRIBUTION DE CHAUFFAGE URBAIN

*Avenant n° 4*

#### TARIF DE VENTE (HTVA) Tranche Conditionnelle

pour le mois de : **SEPTEMBRE 2016**

#### 1- Eléments proportionnel

R1c ENERGIE = 32,72 €HT / MWh

R1 EAU CHAUDE SANITAIRE = 3,27 €HT / M3

#### 2- Eléments fixe

R2 PRESTATIONS = 22,74 €HT / Kw

R3' ENTRETIEN CENTRALE ET S/ST = 1,81 €HT / Kw

R3" ENTRETIEN RESEAU = 1,09 €HT / Kw

R4' AMORTISSEMENT TRAVAUX = 16,11 €HT / Kw

R5 EXTENSIONS DU RESEAU = 2,52 €HT/Kw

TOTAL R2 44,28 €HT/Kw

## SEFIR

## JUSTIFICATION DU TARIF DE VENTE(HTVA)

Pour le mois de : **SEPTEMBRE 2016**

| VALEURS DE BASE DES INDICES            |           | INDICES CONNUS AU : 31/01/2016   |   | TARIF DE BASE TRANCHE FERME  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
|--|-----------|--|---|--|--|--|--|--|--|--------|----------|--|----------|---|------|-------|----------------------------|-----|---|-------|-------|----------------------------|-------|---|-------|-------|--------------------------|------|---|-------|-------|----------------------------|-------|--|--|--|--|--------------------|--|--|------|----------------------------|--|--|--------|--|--|
| EMT                                    | = 116,90  | ELMT (EMT indice remplacé par ELMT tarif vert A5 351107 - coefficient de rattachement 1) | = 148,81                                | <table border="1"> <thead> <tr> <th colspan="2"></th> <th>Coef %</th> <th>Val base</th> <th></th> </tr> </thead> <tbody> <tr> <td>Gaz cogé</td> <td>a</td> <td>9,0%</td> <td>20,44</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Gaz</td> <td>b</td> <td>16,0%</td> <td>49,27</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Fioul</td> <td>c</td> <td>12,0%</td> <td>55,81</td> <td>date de valeur sept 2010</td> </tr> <tr> <td>Bois</td> <td>d</td> <td>63,0%</td> <td>28,39</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Autre</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>R1 CO<sub>2</sub></td> <td></td> <td></td> <td>0,18</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td></td> <td></td> <td>100,0%</td> <td></td> <td></td> </tr> </tbody> </table> |  |  |  |  |  | Coef % | Val base |  | Gaz cogé | a | 9,0% | 20,44 | date de valeur 01 mai 2014 | Gaz | b | 16,0% | 49,27 | date de valeur 01 mai 2014 | Fioul | c | 12,0% | 55,81 | date de valeur sept 2010 | Bois | d | 63,0% | 28,39 | date de valeur 01 mai 2014 | Autre |  |  |  |  | R1 CO <sub>2</sub> |  |  | 0,18 | date de valeur 01 mai 2014 |  |  | 100,0% |  |  |
|  |           | Coef %   | Val base                                |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Gaz cogé                               | a         | 9,0%   | 20,44                                   | date de valeur 01 mai 2014   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Gaz                                    | b         | 16,0%  | 49,27                                   | date de valeur 01 mai 2014   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Fioul                                  | c         | 12,0%  | 55,81                                   | date de valeur sept 2010   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Bois                                   | d         | 63,0%  | 28,39                                   | date de valeur 01 mai 2014   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| Autre                                  |           |  |   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| R1 CO <sub>2</sub>                     |           |  | 0,18                                    | date de valeur 01 mai 2014   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
|  |           | 100,0%   |   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| FOD                                    | = 247,78  | FOD  | = 216,61                                |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| ICHT-IME                               | = 100,90  | ICHT-IME   | = 117,10                                |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| ICHT rev TS                            | = 100,90  | ICHTrev TS   | = 171,74                                |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| IT "date de valeur 01 mai 2014"        | = 136,22  | IT   | = 128,69                                |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| A38CC                                  | = 101,30  | A38CC  | =                                       |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| FSD1 "date de valeur 01 mai 2014"      | = 129,60  | FSD1   | = 122,00                                |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| FSD1                                   | = 118,10  |  |   |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| FSD2                                   | = 117,10  | FSD2   | = 122,00                                |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| BT40                                   | = 952,30  | BT40   | = 1022,98                               |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| G0 "date de valeur 01 mai 2014"        | = 34,70   | G  | = 27,73                                 |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| BT40 (révision R1 cogé)                | = 1019,80 | BT40   | = 1022,98                               |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| ICEEB-PF "date de valeur 01 mai 2014"  | = 112,60  | ICEEB-PF   | = 114,40 <sup>2ème trimestre 2016</sup> |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |
| ICEEB-CLA "date de valeur 01 mai 2014" | = 131,50  | ICEEB-CLA  | = 149,50 <sup>2ème trimestre 2016</sup> |  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |                    |  |  |      |                            |  |  |        |  |  |

## CALCUL TERME R1

R1c = a x R1cogé + b x R1gaz + c x R1fioul + d x R1bois + e x R1autres

|          |         |   |   |        |       |   |                                      |   |              |   |       |   |     |   |       |   |      |   |              |
|----------|---------|---|---|--------|-------|---|--------------------------------------|---|--------------|---|-------|---|-----|---|-------|---|------|---|--------------|
| R1Gaz =  | R1Gazo  | x | $\frac{G}{G_0}$   | R1Gaz= | 49,27 | x | $\left( \frac{27,73}{34,70} \right)$ | = | <b>39,38</b> |   |       |   |     |   |       |   |      |   |              |
| R1FOD =  | R1Fodo  | x | $\frac{Fod}{Fodo}$  | R1FOD= | 55,81 | x | $\frac{216,61}{247,78}$              | = | <b>48,79</b> |   |       |   |     |   |       |   |      |   |              |
| R1cogé = | R1cogéo | x | $( 0,10 + 0,65 \times \frac{G}{C_0} + 0,10 \times \frac{BT40}{BT40_0} + 0,15 \times \frac{FSD1}{FSD1_0} )$                    |        |       |   |                                      |   |              |   |       |   |     |   |       |   |      |   |              |
| R1cogé = | 20,44   | x | $( 0,10 + 0,65 \times \frac{27,73}{34,70} + 0,10 \times \frac{1\ 022,98}{1019,80} + 0,15 \times \frac{122,00}{129,60} )$      |        |       |   |                                      | = | <b>17,60</b> |   |       |   |     |   |       |   |      |   |              |
| R1bois = | R1Boiso | x | $( 0,15 + 0,15 \times \frac{IT}{IT_0} + 0,30 \times \frac{ICEEB-PF}{ICEEB-PF_0} + 0,4 \times \frac{ICEEB-CLA}{ICEEB-CLA_0} )$ |        |       |   |                                      |   |              |   |       |   |     |   |       |   |      |   |              |
| R1bois = | 28,39   | x | $( 0,15 + 0,15 \times \frac{128,690}{136,220} + 0,30 \times \frac{114,40}{112,60} + 0,4 \times \frac{149,50}{131,50} )$       |        |       |   |                                      | = | <b>29,85</b> |   |       |   |     |   |       |   |      |   |              |
| R1mwh =  | 16%     | x | 39,38   | +      | 12%   | x | 48,79                                | + | 9%           | x | 17,60 | + | 63% | x | 29,85 | + | 0,18 | = | <b>32,72</b> |
| R1m3 =   | 3,27    |   |   |        |       |   |                                      |   |              |   |       |   |     |   |       |   |      |   |              |

## CALCUL TERME R2

|      |       |   |  |  |  |  |  |   |              |
|------|-------|---|--|--|--|--|--|---|--------------|
| R2 = | R2o   | x | $( 0,1 + 0,1 \times \frac{EMT}{EMT_0} + 0,45 \times \frac{ICHT-IME}{ICHT-IME_0} + 0,35 \times \frac{FSD1}{FSD1_0} )$ |  |  |  |  |   |              |
| R2 = | 20,47 | x | $( 0,1 + 0,1 \times \frac{148,81}{116,90} + 0,45 \times \frac{117,10}{100,90} + 0,35 \times \frac{122,00}{118,10} )$ |  |  |  |  | = | <b>22,74</b> |

## CALCUL TERME R3'

|       |      |   |   |  |  |  |  |   |             |
|-------|------|---|---|--|--|--|--|---|-------------|
| R3' = | R3'o | x | $( 0,15 + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0} + 0,55 \times \frac{BT40}{BT40_0} )$ |  |  |  |  |   |             |
| R3' = | 1,66 | x | $( 0,15 + 0,3 \times \frac{117,10}{100,90} + 0,55 \times \frac{1022,98}{952,30} )$    |  |  |  |  | = | <b>1,81</b> |

## CALCUL TERME R3''

|        |      |   |   |  |  |  |  |   |             |
|--------|------|---|---|--|--|--|--|---|-------------|
| R3'' = | R3'o | x | $( 0,15 + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0} + 0,55 \times \frac{BT40}{BT40_0} )$ |  |  |  |  |   |             |
| R3'' = | 1    | x | $( 0,15 + 0,3 \times \frac{117,10}{100,90} + 0,55 \times \frac{1022,98}{952,30} )$    |  |  |  |  | = | <b>1,09</b> |

## CALCUL TERME R4' TC

Faut-il maintenir cette redevance, l'avenant 4 ne fait pas référence au R4

|       |       |   |   |  |  |  |  |   |   |
|-------|-------|---|---|--|--|--|--|---|---|
| R4' = | R4'o  | x | $( 0,1 + 0,6 \times \frac{BT40}{BT40_0} + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0} )$ |  |  |  |  |   | 16,37   |
| R4' = | 14,98 | x | $( 0,1 + 0,6 \times \frac{1022,98}{952,30} + 0,3 \times \frac{117,10}{100,90} )$    |  |  |  |  | = | <b>16,11</b> Actualisation à la mise en service |

## CALCUL TERME R5

|      |     |   |   |  |  |  |  |  |  |
|------|-----|---|---|--|--|--|--|--|--|
| R5 = | R5o | x | $( 0,1 + 0,6 \times \frac{BT40}{BT40_0} + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0} )$ |  |  |  |  |  |  |
|------|-----|---|---|--|--|--|--|--|--|

SEPTEMBRE 2016

Valeur en mai 2014

|                            |                  | Contrats 2014 - 2015 |        |        | Global av4   | Mis à jour tarif mois n |       |       | Mois n       |
|----------------------------|------------------|----------------------|--------|--------|--------------|-------------------------|-------|-------|--------------|
|                            |                  | LV                   | FT     | FB     |              | LV                      | FT    | FB    |              |
| Conso                      | MWh PCS          | 28 672               | 7 700  | 3 650  | 40 022       | 31 122                  | 6 500 | 4 000 | 41 622       |
| PEG NORD_MA                | €/MWh pcs        | 21,13                | 21,13  | 21,13  | 21,13        | 12,64                   | 12,64 | 12,64 | 12,64        |
| Prix fournisseur           | €/MWh pcs        | 2,81                 | 0,77   | 0,77   | 2,23         | 3,60                    | 2,27  | 2,27  | 3,22         |
| Terme variable             | €/MWh pcs        | 0,76                 | 5,28   | 5,28   | 2,04         | 0,82                    | 5,82  | 5,82  | 2,24         |
| Stockage                   | €/MWh pcs        | 2,04                 | 1,78   | 1,78   | 1,97         | 2,04                    | 0,93  | 0,93  | 1,73         |
| <b>Prix de ma molécule</b> | <b>€/MWh pcs</b> |                      |        |        | <b>27,37</b> |                         |       |       | <b>19,83</b> |
| TSS                        | €/MWh pcs        | 0,2                  | 0,2    | 0,2    | 0,20         | -                       | -     | -     | 0,00         |
| Biométhane                 | €/MWh pcs        | 0,0072               | 0,0072 | 0,0072 | 0,01         | -                       | -     | -     | 0,00         |
| TICGN                      | €/MWh pcs        | 1,19                 | 1,19   | 1,27   | 1,20         | 1,52                    | 1,52  | 4,34  | 1,79         |
| <b>Taxes</b>               | <b>€/MWh pcs</b> |                      |        |        | <b>1,41</b>  |                         |       |       | <b>1,79</b>  |

|                       | € | 183 409 | 36 092 | 17 590 | 237 091     | 203 427  | 31 602 | 19 742 | 254 771     |
|-----------------------|---|---------|--------|--------|-------------|----------|--------|--------|-------------|
| <b>Terme fixe</b>     |   |         |        |        |             |          |        |        |             |
| TCS                   |   | 89,32   | 89,32  | 89,32  |             | 99,93    | 99,93  | 99,93  |             |
| TCR                   |   | 64,42   | 64,42  | 64,42  |             | 72,07    | 72,07  | 72,07  |             |
| NTR                   |   | 2       | 2      | 2      |             | 2        | 2      | 2      |             |
| TCL                   |   | 33,92   | 33,92  | 33,92  |             | 37,96    | 37,96  | 37,96  |             |
| CJn                   |   | 340     | 133,50 | 63,40  |             | 340      | 103,89 | 63,72  |             |
| AbtD                  |   | 14296,8 | 707,64 | 707,64 |             | 15717,36 | 764,4  | 764,4  |             |
| Nb_PCE                |   | 1       | 1      | 1      |             | 1        | 1      | 1      |             |
| TSACJ                 |   | 186     |        |        |             | 204,6    |        |        |             |
| taux CTA transport    |   | 0,0471  | 0,0471 | 0,0471 |             | 0,0471   | 0,0471 | 0,0471 |             |
| taux CTA distribution |   | 0,208   | 0,208  | 0,208  |             | 0,208    | 0,208  | 0,208  |             |
| <b>Terme fixe</b>     |   |         |        |        | <b>5,92</b> |          |        |        | <b>6,12</b> |

- = variation mensuelle
- = variation annuelle LE 01/04
- = variation selon contrat d'appro
- = variation annuelle le 01/01
- = variation annuelle le 1/07

G<sub>0</sub> 34,70

$$G = G_0 (Peg-Peg_0) + (Taxe-tax_0) + (Prime fixe-Prime fixe_0) / MWh \text{ gaz}$$

**G** 27,73

## SEFIR

### DELEGATION DU SERVICE PUBLIC DE PRODUCTION ET DE DISTRIBUTION DE CHAUFFAGE URBAIN

*Avenant n° 4*

#### TARIF DE VENTE (HTVA) Tranche Conditionnelle

pour le mois de : **octobre 2016**

#### 1- Eléments proportionnel

R1c ENERGIE = 32,90 €HT / MWh

R1 EAU CHAUDE SANITAIRE = 3,29 €HT / M3

#### 2- Eléments fixe

R2 PRESTATIONS = 22,70 €HT / Kw

R3' ENTRETIEN CENTRALE ET S/ST = 1,81 €HT / Kw

R3" ENTRETIEN RESEAU = 1,09 €HT / Kw

R4' AMORTISSEMENT TRAVAUX = 16,11 €HT / Kw

R5 EXTENSIONS DU RESEAU = 2,53 €HT/Kw

TOTAL R2 44,24 €HT/Kw

## SEFIR

## JUSTIFICATION DU TARIF DE VENTE(HTVA)

Pour le mois de : **octobre 2016**

| VALEURS DE BASE DES INDICES            |           | INDICES CONNUS AU : 31/01/2016   |   | TARIF DE BASE TRANCHE FERME   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
|--|-----------|--|---|---|--|--|--|--|--|--------|----------|--|----------|---|------|-------|----------------------------|-----|---|-------|-------|----------------------------|-------|---|-------|-------|--------------------------|------|---|-------|-------|----------------------------|-------|--|--|--|--|--------|--|--|------|----------------------------|--|--|--------|--|--|
| EMT                                    | = 116,90  | ELMT (EMT indice remplacé par ELMT tarif vert A5 351107 - coefficient de rattachement 1) | = 144,32                                | <table border="1"> <thead> <tr> <th colspan="2"></th> <th>Coef %</th> <th>Val base</th> <th></th> </tr> </thead> <tbody> <tr> <td>Gaz cogé</td> <td>a</td> <td>9,0%</td> <td>20,44</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Gaz</td> <td>b</td> <td>16,0%</td> <td>49,27</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Fioul</td> <td>c</td> <td>12,0%</td> <td>55,81</td> <td>date de valeur sept 2010</td> </tr> <tr> <td>Bois</td> <td>d</td> <td>63,0%</td> <td>28,39</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Autre</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>R1 CO2</td> <td></td> <td></td> <td>0,18</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td></td> <td></td> <td>100,0%</td> <td></td> <td></td> </tr> </tbody> </table> |  |  |  |  |  | Coef % | Val base |  | Gaz cogé | a | 9,0% | 20,44 | date de valeur 01 mai 2014 | Gaz | b | 16,0% | 49,27 | date de valeur 01 mai 2014 | Fioul | c | 12,0% | 55,81 | date de valeur sept 2010 | Bois | d | 63,0% | 28,39 | date de valeur 01 mai 2014 | Autre |  |  |  |  | R1 CO2 |  |  | 0,18 | date de valeur 01 mai 2014 |  |  | 100,0% |  |  |
|  |           | Coef %   | Val base                                |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| Gaz cogé                               | a         | 9,0%   | 20,44                                   | date de valeur 01 mai 2014  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| Gaz                                    | b         | 16,0%  | 49,27                                   | date de valeur 01 mai 2014  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| Fioul                                  | c         | 12,0%  | 55,81                                   | date de valeur sept 2010  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| Bois                                   | d         | 63,0%  | 28,39                                   | date de valeur 01 mai 2014  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| Autre                                  |           |  |   |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| R1 CO2                                 |           |  | 0,18                                    | date de valeur 01 mai 2014  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
|  |           | 100,0%   |   |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| FOD                                    | = 247,78  | FOD  | = 218,55                                |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| ICHT-IME                               | = 100,90  | ICHT-IME   | = 117,70                                |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| ICHT rev TS                            | = 100,90  | ICHTrev TS   | =                                       |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| IT "date de valeur 01 mai 2014"        | = 136,22  | IT   | = 128,69                                |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| A38CC                                  | = 101,30  | A38CC  | =                                       |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| FSD1 "date de valeur 01 mai 2014"      | = 129,60  | FSD1   | = 121,70                                |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| FSD1                                   | = 118,10  |  |   |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| FSD2                                   | = 117,10  | FSD2   | = 121,80                                |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| BT40                                   | = 952,30  | BT40   | = 1022,98                               |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| G0 "date de valeur 01 mai 2014"        | = 34,70   | G  | = 28,22                                 |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| BT40 (révision R1 cogé)                | = 1019,80 | BT40   | = 1022,98                               |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| ICEEB-PF "date de valeur 01 mai 2014"  | = 112,60  | ICEEB-PF   | = 114,40 <sup>2ème trimestre 2016</sup> |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| ICEEB-CLA "date de valeur 01 mai 2014" | = 131,50  | ICEEB-CLA  | = 149,50 <sup>2ème trimestre 2016</sup> |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |

## CALCUL TERME R1

R1c = a x R1cogé + b x R1gaz + c x R1fioul + d x R1bois + e x R1autres

|          |         |   |   |        |       |   |                                      |   |       |   |       |   |     |   |       |   |      |   |       |
|----------|---------|---|---|--------|-------|---|--------------------------------------|---|-------|---|-------|---|-----|---|-------|---|------|---|-------|
| R1Gaz =  | R1Gazo  | x | $\frac{G}{G_0}$   | R1Gaz= | 49,27 | x | $\left( \frac{28,22}{34,70} \right)$ | = | 40,08 |   |       |   |     |   |       |   |      |   |       |
| R1FOD =  | R1Fodo  | x | $\frac{Fod}{Fodo}$  | R1FOD= | 55,81 | x | $\frac{218,55}{247,78}$              | = | 49,23 |   |       |   |     |   |       |   |      |   |       |
| R1cogé = | R1cogéo | x | $( 0,10 + 0,65 \times \frac{G}{C_0} + 0,10 \times \frac{BT40}{BT40_0} + 0,15 \times \frac{FSD1}{FSD1_0} )$                    |        |       |   |                                      |   |       |   |       |   |     |   |       |   |      |   |       |
| R1cogé = | 20,44   | x | $( 0,10 + 0,65 \times \frac{28,22}{34,70} + 0,10 \times \frac{1\ 022,98}{1019,80} + 0,15 \times \frac{121,70}{129,60} )$      |        |       |   |                                      | = | 17,78 |   |       |   |     |   |       |   |      |   |       |
| R1bois = | R1Boiso | x | $( 0,15 + 0,15 \times \frac{IT}{IT_0} + 0,30 \times \frac{ICEEB-PF}{ICEEB-PF_0} + 0,4 \times \frac{ICEEB-CLA}{ICEEB-CLA_0} )$ |        |       |   |                                      |   |       |   |       |   |     |   |       |   |      |   |       |
| R1bois = | 28,39   | x | $( 0,15 + 0,15 \times \frac{128,690}{136,220} + 0,30 \times \frac{114,40}{112,60} + 0,4 \times \frac{149,50}{131,50} )$       |        |       |   |                                      | = | 29,85 |   |       |   |     |   |       |   |      |   |       |
| R1mwh =  | 16%     | x | 40,08   | +      | 12%   | x | 49,23                                | + | 9%    | x | 17,78 | + | 63% | x | 29,85 | + | 0,18 | = | 32,90 |
| R1m3 =   | 3,29    |   |   |        |       |   |                                      |   |       |   |       |   |     |   |       |   |      |   |       |

## CALCUL TERME R2

|      |       |   |  |  |  |  |  |   |       |
|------|-------|---|--|--|--|--|--|---|-------|
| R2 = | R2o   | x | $( 0,1 + 0,1 \times \frac{EMT}{EMT_0} + 0,45 \times \frac{ICHT-IME}{ICHT-IME_0} + 0,35 \times \frac{FSD1}{FSD1_0} )$ |  |  |  |  |   |       |
| R2 = | 20,47 | x | $( 0,1 + 0,1 \times \frac{144,32}{116,90} + 0,45 \times \frac{117,70}{100,90} + 0,35 \times \frac{121,70}{118,10} )$ |  |  |  |  | = | 22,70 |

## CALCUL TERME R3'

|       |      |   |   |  |  |  |  |   |      |
|-------|------|---|---|--|--|--|--|---|------|
| R3' = | R3'o | x | $( 0,15 + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0} + 0,55 \times \frac{BT40}{BT40_0} )$ |  |  |  |  |   |      |
| R3' = | 1,66 | x | $( 0,15 + 0,3 \times \frac{117,70}{100,90} + 0,55 \times \frac{1022,98}{952,30} )$    |  |  |  |  | = | 1,81 |

## CALCUL TERME R3"

|       |      |   |   |  |  |  |  |   |      |
|-------|------|---|---|--|--|--|--|---|------|
| R3" = | R3'o | x | $( 0,15 + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0} + 0,55 \times \frac{BT40}{BT40_0} )$ |  |  |  |  |   |      |
| R3" = | 1    | x | $( 0,15 + 0,3 \times \frac{117,70}{100,90} + 0,55 \times \frac{1022,98}{952,30} )$    |  |  |  |  | = | 1,09 |

## CALCUL TERME R4' TC

|       |       |   |   |  |  |  |  |   |       |
|-------|-------|---|---|--|--|--|--|---|-------|
| R4' = | R4'o  | x | $( 0,1 + 0,6 \times \frac{BT40}{BT40_0} + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0} )$ |  |  |  |  |   | 16,40 |
| R4' = | 14,98 | x | $( 0,1 + 0,6 \times \frac{1022,98}{952,30} + 0,3 \times \frac{117,70}{100,90} )$    |  |  |  |  | = | 16,11 |

Faut-il maintenir cette redevance, l'avenant 4 ne fait pas référence au R4

Actualisation à la mise en service

## CALCUL TERME R5

|      |     |   |   |  |  |  |  |  |  |
|------|-----|---|---|--|--|--|--|--|--|
| R5 = | R5o | x | $( 0,1 + 0,6 \times \frac{BT40}{BT40_0} + 0,3 \times \frac{ICHT-IME}{ICHT-IME_0} )$ |  |  |  |  |  |  |
|------|-----|---|---|--|--|--|--|--|--|

octobre 2016

Valeur en mai 2014

|                            |                  | Contrats 2014 - 2015 |        |        | Global av4   | Mis à jour tarif mois n |       |       | Mois n       |
|----------------------------|------------------|----------------------|--------|--------|--------------|-------------------------|-------|-------|--------------|
|                            |                  | LV                   | FT     | FB     |              | LV                      | FT    | FB    |              |
| Conso                      | MWh PCS          | 28 672               | 7 700  | 3 650  | 40 022       | 31 122                  | 6 500 | 4 000 | 41 622       |
| PEG NORD_MA                | €/MWh pcs        | 21,13                | 21,13  | 21,13  | 21,13        | 13,13                   | 13,13 | 13,13 | 13,13        |
| Prix fournisseur           | €/MWh pcs        | 2,81                 | 0,77   | 0,77   | 2,23         | 3,60                    | 2,27  | 2,27  | 3,22         |
| Terme variable             | €/MWh pcs        | 0,76                 | 5,28   | 5,28   | 2,04         | 0,82                    | 5,82  | 5,82  | 2,24         |
| Stockage                   | €/MWh pcs        | 2,04                 | 1,78   | 1,78   | 1,97         | 2,04                    | 0,93  | 0,93  | 1,73         |
| <b>Prix de ma molécule</b> | <b>€/MWh pcs</b> |                      |        |        | <b>27,37</b> |                         |       |       | <b>20,32</b> |
| TSS                        | €/MWh pcs        | 0,2                  | 0,2    | 0,2    | 0,20         | -                       | -     | -     | 0,00         |
| Biométhane                 | €/MWh pcs        | 0,0072               | 0,0072 | 0,0072 | 0,01         | -                       | -     | -     | 0,00         |
| TICGN                      | €/MWh pcs        | 1,19                 | 1,19   | 1,27   | 1,20         | 1,52                    | 1,52  | 4,34  | 1,79         |
| <b>Taxes</b>               | <b>€/MWh pcs</b> |                      |        |        | <b>1,41</b>  |                         |       |       | <b>1,79</b>  |

|                       | € | 183 409 | 36 092 | 17 590 | 237 091     | 203 427  | 31 602 | 19 742 | 254 771     |
|-----------------------|---|---------|--------|--------|-------------|----------|--------|--------|-------------|
| <b>Terme fixe</b>     |   |         |        |        |             |          |        |        |             |
| TCS                   |   | 89,32   | 89,32  | 89,32  |             | 99,93    | 99,93  | 99,93  |             |
| TCR                   |   | 64,42   | 64,42  | 64,42  |             | 72,07    | 72,07  | 72,07  |             |
| NTR                   |   | 2       | 2      | 2      |             | 2        | 2      | 2      |             |
| TCL                   |   | 33,92   | 33,92  | 33,92  |             | 37,96    | 37,96  | 37,96  |             |
| CJn                   |   | 340     | 133,50 | 63,40  |             | 340      | 103,89 | 63,72  |             |
| AbtD                  |   | 14296,8 | 707,64 | 707,64 |             | 15717,36 | 764,4  | 764,4  |             |
| Nb_PCE                |   | 1       | 1      | 1      |             | 1        | 1      | 1      |             |
| TSACJ                 |   | 186     |        |        |             | 204,6    |        |        |             |
| taux CTA transport    |   | 0,0471  | 0,0471 | 0,0471 |             | 0,0471   | 0,0471 | 0,0471 |             |
| taux CTA distribution |   | 0,208   | 0,208  | 0,208  |             | 0,208    | 0,208  | 0,208  |             |
| <b>Terme fixe</b>     |   |         |        |        | <b>5,92</b> |          |        |        | <b>6,12</b> |

- = variation mensuelle
- = variation annuelle LE 01/04
- = variation selon contrat d'appro
- = variation annuelle le 01/01
- = variation annuelle le 1/07

G<sub>0</sub> 34,70

$$G = G_0 (Peg-Peg_0) + (Taxe-tax_0) + (Prime fixe-Prime fixe_0) / MWh \text{ gaz}$$

**G** 28,22

## SEFIR

### DELEGATION DU SERVICE PUBLIC DE PRODUCTION ET DE DISTRIBUTION DE CHAUFFAGE URBAIN

*Avenant n° 4*

#### TARIF DE VENTE (HTVA) Tranche Conditionnelle

pour le mois de : **novembre 2016**

#### 1- Eléments proportionnel

R1c ENERGIE = 34,19 €HT / MWh

R1 EAU CHAUDE SANITAIRE = 3,42 €HT / M3

#### 2- Eléments fixe

R2 PRESTATIONS = 22,89 €HT / Kw

R3' ENTRETIEN CENTRALE ET S/ST = 1,81 €HT / Kw

R3" ENTRETIEN RESEAU = 1,09 €HT / Kw

R4' AMORTISSEMENT TRAVAUX = 16,11 €HT / Kw

R5 EXTENSIONS DU RESEAU = 2,53 €HT/Kw

TOTAL R2 44,43 €HT/Kw

## SEFIR

## JUSTIFICATION DU TARIF DE VENTE(HTVA)

Pour le mois de : **novembre 2016**

| VALEURS DE BASE DES INDICES            |           | INDICES CONNUS AU : 30/11/2016   |           | TARIF DE BASE TRANCHE FERME   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
|--|-----------|--|-----------|---|--|--|--|--|--|--------|----------|--|----------|---|------|-------|----------------------------|-----|---|-------|-------|----------------------------|-------|---|-------|-------|--------------------------|------|---|-------|-------|----------------------------|-------|--|--|--|--|--------|--|--|------|----------------------------|--|--|--------|--|--|
| EMT                                    | = 116,90  | ELMT (EMT indice remplacé par ELMT tarif vert A5 351107 - coefficient de rattachement 1) | = 151,76  | <table border="1"> <thead> <tr> <th colspan="2"></th> <th>Coef %</th> <th>Val base</th> <th></th> </tr> </thead> <tbody> <tr> <td>Gaz cogé</td> <td>a</td> <td>9,0%</td> <td>20,44</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Gaz</td> <td>b</td> <td>16,0%</td> <td>49,27</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Fioul</td> <td>c</td> <td>12,0%</td> <td>55,81</td> <td>date de valeur sept 2010</td> </tr> <tr> <td>Bois</td> <td>d</td> <td>63,0%</td> <td>28,39</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Autre</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>R1 CO2</td> <td></td> <td></td> <td>0,18</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td></td> <td></td> <td>100,0%</td> <td></td> <td></td> </tr> </tbody> </table> |  |  |  |  |  | Coef % | Val base |  | Gaz cogé | a | 9,0% | 20,44 | date de valeur 01 mai 2014 | Gaz | b | 16,0% | 49,27 | date de valeur 01 mai 2014 | Fioul | c | 12,0% | 55,81 | date de valeur sept 2010 | Bois | d | 63,0% | 28,39 | date de valeur 01 mai 2014 | Autre |  |  |  |  | R1 CO2 |  |  | 0,18 | date de valeur 01 mai 2014 |  |  | 100,0% |  |  |
|  |           | Coef %   | Val base  |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| Gaz cogé                               | a         | 9,0%   | 20,44     | date de valeur 01 mai 2014  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| Gaz                                    | b         | 16,0%  | 49,27     | date de valeur 01 mai 2014  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| Fioul                                  | c         | 12,0%  | 55,81     | date de valeur sept 2010  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| Bois                                   | d         | 63,0%  | 28,39     | date de valeur 01 mai 2014  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| Autre                                  |           |  |           |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| R1 CO2                                 |           |  | 0,18      | date de valeur 01 mai 2014  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
|  |           | 100,0%   |           |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| FOD                                    | = 247,78  | FOD  | = 239,28  |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| ICHT-IME                               | = 100,90  | ICHT-IME   | = 117,70  |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| ICHT rev TS                            | = 100,90  | ICHTrev TS   | =         |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| IT "date de valeur 01 mai 2014"        | = 136,22  | IT   | = 130,09  |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| A38CC                                  | = 101,30  | A38CC  | =         |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| FSD1 "date de valeur 01 mai 2014"      | = 129,60  | FSD1   | = 122,60  |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| FSD1                                   | = 118,10  |  |           |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| FSD2                                   | = 117,10  | FSD2   | = 122,30  |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| BT40                                   | = 952,30  | BT40   | = 1024,95 |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| G0 "date de valeur 01 mai 2014"        | = 34,70   | G  | = 31,73   |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| BT40 (révision R1 cogé)                | = 1019,80 | BT40   | = 1024,95 |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| ICEEB-PF "date de valeur 01 mai 2014"  | = 112,60  | ICEEB-PF   | = 114,60  |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| ICEEB-CLA "date de valeur 01 mai 2014" | = 131,50  | ICEEB-CLA  | = 145,30  |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |

## CALCUL TERME R1

R1c = a x R1cogé + b x R1gaz + c x R1fioul + d x R1bois + e x R1autres

|          |         |   |                    |       |                           |        |      |  |        |       |                                 |         |        |         |
|----------|---------|---|--------------------|-------|---------------------------|--------|------|--|--------|-------|---------------------------------|---------|--------|---------|
| R1Gaz =  | R1Gazo  | x | $\frac{G}{G_0}$    |       | R1Gaz=                    | 49,27  | x    | $\left( \frac{31,734}{34,700} \right)$ | =      | 45,06 |                                 |         |        |         |
| R1FOD =  | R1Fodo  | x | $\frac{Fod}{Fodo}$ |       | R1FOD=                    | 55,81  | x    | $\frac{239,28}{247,78}$                | =      | 53,90 |                                 |         |        |         |
| R1cogé = | R1cogéo | x | ( 0,10 + 0,65      | x     | $\frac{G}{C_0}$           | + 0,10 | x    | $\frac{BT40}{BT40_0}$                  | + 0,15 | x     | $\frac{FSD1}{FSD1_0}$           |         |        |         |
| R1cogé = | 20,44   | x | ( 0,10 + 0,65      | x     | $\frac{31,734}{34,700}$   | + 0,10 | x    | $\frac{1\ 024,95}{1019,80}$            | + 0,15 | x     | $\frac{122,60}{129,60}$         | = 19,15 |        |         |
| R1bois = | R1Boiso | x | ( 0,15 + 0,15      | x     | $\frac{IT}{IT_0}$         | + 0,30 | x    | $\frac{ICEEB-PF}{ICEEB-PF_0}$          | + 0,4  | x     | $\frac{ICEEB-CLA}{ICEEB-CLA_0}$ |         |        |         |
| R1bois = | 28,39   | x | ( 0,15 + 0,15      | x     | $\frac{130,090}{136,220}$ | + 0,30 | x    | $\frac{114,60}{112,60}$                | + 0,4  | x     | $\frac{145,30}{131,50}$         | = 29,54 |        |         |
| R1Mwh =  | 16%     | x | 45,06              | + 12% | x                         | 53,90  | + 9% | x                                      | 19,15  | + 63% | x                               | 29,54   | + 0,18 | = 34,19 |
| R1m3 =   | 3,42    |   |                    |       |                           |        |      |  |        |       |                                 |         |        |         |

## CALCUL TERME R2

|      |       |   |             |                         |        |                               |        |                         |         |
|------|-------|---|-------------|-------------------------|--------|-------------------------------|--------|-------------------------|---------|
| R2 = | R2o   | x | ( 0,1 + 0,1 | $\frac{EMT}{EMT_0}$     | + 0,45 | $\frac{ICHT-IME}{ICHT-IME_0}$ | + 0,35 | $\frac{FSD1}{FSD1_0}$   |         |
| R2 = | 20,47 | x | ( 0,1 + 0,1 | $\frac{151,76}{116,90}$ | + 0,45 | $\frac{117,70}{100,90}$       | + 0,35 | $\frac{122,60}{118,10}$ | = 22,89 |

## CALCUL TERME R3'

|       |      |   |              |                               |        |                          |        |
|-------|------|---|--------------|-------------------------------|--------|--------------------------|--------|
| R3' = | R3'o | x | ( 0,15 + 0,3 | $\frac{ICHT-IME}{ICHT-IME_0}$ | + 0,55 | $\frac{BT40}{BT40_0}$    |        |
| R3' = | 1,66 | x | ( 0,15 + 0,3 | $\frac{117,70}{100,90}$       | + 0,55 | $\frac{1024,95}{952,30}$ | = 1,81 |

## CALCUL TERME R3"

|       |      |   |              |                               |        |                          |        |
|-------|------|---|--------------|-------------------------------|--------|--------------------------|--------|
| R3" = | R3'o | x | ( 0,15 + 0,3 | $\frac{ICHT-IME}{ICHT-IME_0}$ | + 0,55 | $\frac{BT40}{BT40_0}$    |        |
| R3" = | 1    | x | ( 0,15 + 0,3 | $\frac{117,70}{100,90}$       | + 0,55 | $\frac{1024,95}{952,30}$ | = 1,09 |

## CALCUL TERME R4' TC

|       |       |   |             |                          |       |                               |         |
|-------|-------|---|-------------|--------------------------|-------|-------------------------------|---------|
| R4' = | R4'o  | x | ( 0,1 + 0,6 | $\frac{BT40}{BT40_0}$    | + 0,3 | $\frac{ICHT-IME}{ICHT-IME_0}$ | 16,41   |
| R4' = | 14,98 | x | ( 0,1 + 0,6 | $\frac{1024,95}{952,30}$ | + 0,3 | $\frac{117,70}{100,90}$       | = 16,11 |

## CALCUL TERME R5

|      |      |   |             |                       |       |                               |
|------|------|---|-------------|-----------------------|-------|-------------------------------|
| R5 = | R5'o | x | ( 0,1 + 0,6 | $\frac{BT40}{BT40_0}$ | + 0,3 | $\frac{ICHT-IME}{ICHT-IME_0}$ |
|------|------|---|-------------|-----------------------|-------|-------------------------------|

novembre 2016

Valeur en mai 2014

|                            |                  | Contrats 2014 - 2015 |        |        |              | Mis à jour tarif mois n |       |       |              |
|----------------------------|------------------|----------------------|--------|--------|--------------|-------------------------|-------|-------|--------------|
|                            |                  | LV                   | FT     | FB     | Global av4   | LV                      | FT    | FB    | Mois n       |
| Conso                      | MWh PCS          | 28 672               | 7 700  | 3 650  | 40 022       | 31 122                  | 6 500 | 4 000 | 41 622       |
| PEG NORD_MA                | €/MWh pcs        | 21,13                | 21,13  | 21,13  | 21,13        | 16,64                   | 16,64 | 16,64 | 16,64        |
| Prix fournisseur           | €/MWh pcs        | 2,81                 | 0,77   | 0,77   | 2,23         | 3,60                    | 2,27  | 2,27  | 3,22         |
| Terme variable             | €/MWh pcs        | 0,76                 | 5,28   | 5,28   | 2,04         | 0,82                    | 5,82  | 5,82  | 2,24         |
| Stockage                   | €/MWh pcs        | 2,04                 | 1,78   | 1,78   | 1,97         | 2,04                    | 0,93  | 0,93  | 1,73         |
| <b>Prix de ma molécule</b> | <b>€/MWh pcs</b> |                      |        |        | <b>27,37</b> |                         |       |       | <b>23,83</b> |
| TSS                        | €/MWh pcs        | 0,2                  | 0,2    | 0,2    | 0,20         | -                       | -     | -     | 0,00         |
| Biométhane                 | €/MWh pcs        | 0,0072               | 0,0072 | 0,0072 | 0,01         | -                       | -     | -     | 0,00         |
| TICGN                      | €/MWh pcs        | 1,19                 | 1,19   | 1,27   | 1,20         | 1,52                    | 1,52  | 4,34  | 1,79         |
| <b>Taxes</b>               | <b>€/MWh pcs</b> |                      |        |        | <b>1,41</b>  |                         |       |       | <b>1,79</b>  |

| Terme fixe            | € | 183 409 | 36 092 | 17 590 | 237 091     | 203 427  | 31 602 | 19 742 | 254 771     |
|-----------------------|---|---------|--------|--------|-------------|----------|--------|--------|-------------|
| TCS                   |   | 89,32   | 89,32  | 89,32  |             | 99,93    | 99,93  | 99,93  |             |
| TCR                   |   | 64,42   | 64,42  | 64,42  |             | 72,07    | 72,07  | 72,07  |             |
| NTR                   |   | 2       | 2      | 2      |             | 2        | 2      | 2      |             |
| TCL                   |   | 33,92   | 33,92  | 33,92  |             | 37,96    | 37,96  | 37,96  |             |
| CJn                   |   | 340     | 133,50 | 63,40  |             | 340      | 103,89 | 63,72  |             |
| AbtD                  |   | 14296,8 | 707,64 | 707,64 |             | 15717,36 | 764,4  | 764,4  |             |
| Nb_PCE                |   | 1       | 1      | 1      |             | 1        | 1      | 1      |             |
| TSACJ                 |   | 186     |        |        |             | 204,6    |        |        |             |
| taux CTA transport    |   | 0,0471  | 0,0471 | 0,0471 |             | 0,0471   | 0,0471 | 0,0471 |             |
| taux CTA distribution |   | 0,208   | 0,208  | 0,208  |             | 0,208    | 0,208  | 0,208  |             |
| <b>Terme fixe</b>     |   |         |        |        | <b>5,92</b> |          |        |        | <b>6,12</b> |

- = variation mensuelle
- = variation annuelle LE 01/04
- = variation selon contrat d'appro
- = variation annuelle le 01/01
- = variation annuelle le 1/07

G<sub>0</sub> 34,70

$$G = G_0 (Peg - Peg_0) + (Taxe - taxe_0) + (Prime\ fixe - Prime\ fixe_0) / MWh\ gaz$$

**G** 31,73

## SEFIR

### DELEGATION DU SERVICE PUBLIC DE PRODUCTION ET DE DISTRIBUTION DE CHAUFFAGE URBAIN

*Avenant n° 4*

#### TARIF DE VENTE (HTVA) Tranche Conditionnelle

pour le mois de : **décembre 2016**

##### 1- Eléments proportionnel

R1c ENERGIE = 34,41 €HT / MWh

R1 EAU CHAUDE SANITAIRE = 3,44 €HT / M3

##### 2- Eléments fixe

R2 PRESTATIONS = 23,08 €HT / Kw

R3' ENTRETIEN CENTRALE ET S/ST = 1,81 €HT / Kw

R3" ENTRETIEN RESEAU = 1,09 €HT / Kw

R4' AMORTISSEMENT TRAVAUX = 16,11 €HT / Kw

R5 EXTENSIONS DU RESEAU = 2,53 €HT/Kw

TOTAL R2 44,63 €HT/Kw

## SEFIR

## JUSTIFICATION DU TARIF DE VENTE(HTVA)

Pour le mois de : **décembre 2016**

| VALEURS DE BASE DES INDICES            |           | INDICES CONNUS AU : 30/11/2016   |   | TARIF DE BASE TRANCHE FERME   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
|--|-----------|--|---|---|--|--|--|--|--|--------|----------|--|----------|---|------|-------|----------------------------|-----|---|-------|-------|----------------------------|-------|---|-------|-------|--------------------------|------|---|-------|-------|----------------------------|-------|--|--|--|--|--------|--|--|------|----------------------------|--|--|--------|--|--|
| EMT                                    | = 116,90  | ELMT (EMT indice remplacé par ELMT tarif vert A5 351107 - coefficient de rattachement 1) | = 152,32                                | <table border="1"> <thead> <tr> <th colspan="2"></th> <th>Coef %</th> <th>Val base</th> <th></th> </tr> </thead> <tbody> <tr> <td>Gaz cogé</td> <td>a</td> <td>9,0%</td> <td>20,44</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Gaz</td> <td>b</td> <td>16,0%</td> <td>49,27</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Fioul</td> <td>c</td> <td>12,0%</td> <td>55,81</td> <td>date de valeur sept 2010</td> </tr> <tr> <td>Bois</td> <td>d</td> <td>63,0%</td> <td>28,39</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td>Autre</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>R1 CO2</td> <td></td> <td></td> <td>0,18</td> <td>date de valeur 01 mai 2014</td> </tr> <tr> <td></td> <td></td> <td>100,0%</td> <td></td> <td></td> </tr> </tbody> </table> |  |  |  |  |  | Coef % | Val base |  | Gaz cogé | a | 9,0% | 20,44 | date de valeur 01 mai 2014 | Gaz | b | 16,0% | 49,27 | date de valeur 01 mai 2014 | Fioul | c | 12,0% | 55,81 | date de valeur sept 2010 | Bois | d | 63,0% | 28,39 | date de valeur 01 mai 2014 | Autre |  |  |  |  | R1 CO2 |  |  | 0,18 | date de valeur 01 mai 2014 |  |  | 100,0% |  |  |
|  |           | Coef %   | Val base                                |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| Gaz cogé                               | a         | 9,0%   | 20,44                                   | date de valeur 01 mai 2014  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| Gaz                                    | b         | 16,0%  | 49,27                                   | date de valeur 01 mai 2014  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| Fioul                                  | c         | 12,0%  | 55,81                                   | date de valeur sept 2010  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| Bois                                   | d         | 63,0%  | 28,39                                   | date de valeur 01 mai 2014  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| Autre                                  |           |  |   |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| R1 CO2                                 |           |  | 0,18                                    | date de valeur 01 mai 2014  |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
|  |           | 100,0%   |   |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| FOD                                    | = 247,78  | FOD  | = 231,14                                |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| ICHT-IME                               | = 100,90  | ICHT-IME   | = 117,70                                |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| ICHT rev TS                            | = 100,90  | ICHTrev TS   | =                                       |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| IT "date de valeur 01 mai 2014"        | = 136,22  | IT   | = 131,41                                |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| A38CC                                  | = 101,30  | A38CC  | =                                       |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| FSD1 "date de valeur 01 mai 2014"      | = 129,60  | FSD1   | = 125,60                                |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| FSD1                                   | = 118,10  |  |   |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| FSD2                                   | = 117,10  | FSD2   | = 124,30                                |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| BT40                                   | = 952,30  | BT40   | = 1025,93                               |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| G0 "date de valeur 01 mai 2014"        | = 34,70   | G  | = 33,29                                 |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| BT40 (révision R1 cogé)                | = 1019,80 | BT40   | = 1025,93                               |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| ICEEB-PF "date de valeur 01 mai 2014"  | = 112,60  | ICEEB-PF   | = 114,60 <sup>2ème trimestre 2016</sup> |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |
| ICEEB-CLA "date de valeur 01 mai 2014" | = 131,50  | ICEEB-CLA  | = 145,30 <sup>3ème trimestre 2016</sup> |   |  |  |  |  |  |        |          |  |          |   |      |       |                            |     |   |       |       |                            |       |   |       |       |                          |      |   |       |       |                            |       |  |  |  |  |        |  |  |      |                            |  |  |        |  |  |

## CALCUL TERME R1

R1c = a x R1cogé + b x R1gaz + c x R1fioul + d x R1bois + e x R1autres

|          |         |   |                    |       |                           |        |      |  |        |       |                                 |         |        |         |
|----------|---------|---|--------------------|-------|---------------------------|--------|------|--|--------|-------|---------------------------------|---------|--------|---------|
| R1Gaz =  | R1Gazo  | x | $\frac{G}{G_0}$    |       | R1Gaz=                    | 49,27  | x    | $\left( \frac{33,294}{34,700} \right)$ | =      | 47,27 |                                 |         |        |         |
| R1FOD =  | R1Fodo  | x | $\frac{Fod}{Fodo}$ |       | R1FOD=                    | 55,81  | x    | $\frac{231,14}{247,78}$                | =      | 52,06 |                                 |         |        |         |
| R1cogé = | R1cogéo | x | ( 0,10 + 0,65      | x     | $\frac{G}{C_0}$           | + 0,10 | x    | $\frac{BT40}{BT40_0}$                  | + 0,15 | x     | $\frac{FSD1}{FSD1_0}$           |         |        |         |
| R1cogé = | 20,44   | x | ( 0,10 + 0,65      | x     | $\frac{33,294}{34,700}$   | + 0,10 | x    | $\frac{1\ 025,93}{1019,80}$            | + 0,15 | x     | $\frac{125,60}{129,60}$         | = 19,82 |        |         |
| R1bois = | R1Boiso | x | ( 0,15 + 0,15      | x     | $\frac{IT}{IT_0}$         | + 0,30 | x    | $\frac{ICEEB-PF}{ICEEB-PF_0}$          | + 0,4  | x     | $\frac{ICEEB-CLA}{ICEEB-CLA_0}$ |         |        |         |
| R1bois = | 28,39   | x | ( 0,15 + 0,15      | x     | $\frac{131,410}{136,220}$ | + 0,30 | x    | $\frac{114,60}{112,60}$                | + 0,4  | x     | $\frac{145,30}{131,50}$         | = 29,58 |        |         |
| R1Mwh =  | 16%     | x | 47,27              | + 12% | x                         | 52,06  | + 9% | x                                      | 19,82  | + 63% | x                               | 29,58   | + 0,18 | = 34,41 |
| R1m3 =   | 3,44    |   |                    |       |                           |        |      |  |        |       |                                 |         |        |         |

## CALCUL TERME R2

|      |       |   |             |                         |        |                               |        |                         |         |
|------|-------|---|-------------|-------------------------|--------|-------------------------------|--------|-------------------------|---------|
| R2 = | R2o   | x | ( 0,1 + 0,1 | $\frac{EMT}{EMT_0}$     | + 0,45 | $\frac{ICHT-IME}{ICHT-IME_0}$ | + 0,35 | $\frac{FSD1}{FSD1_0}$   |         |
| R2 = | 20,47 | x | ( 0,1 + 0,1 | $\frac{152,32}{116,90}$ | + 0,45 | $\frac{117,70}{100,90}$       | + 0,35 | $\frac{125,60}{118,10}$ | = 23,08 |

## CALCUL TERME R3'

|       |      |   |              |                               |        |                          |        |
|-------|------|---|--------------|-------------------------------|--------|--------------------------|--------|
| R3' = | R3'o | x | ( 0,15 + 0,3 | $\frac{ICHT-IME}{ICHT-IME_0}$ | + 0,55 | $\frac{BT40}{BT40_0}$    |        |
| R3' = | 1,66 | x | ( 0,15 + 0,3 | $\frac{117,70}{100,90}$       | + 0,55 | $\frac{1025,93}{952,30}$ | = 1,81 |

## CALCUL TERME R3"

|       |      |   |              |                               |        |                          |        |
|-------|------|---|--------------|-------------------------------|--------|--------------------------|--------|
| R3" = | R3'o | x | ( 0,15 + 0,3 | $\frac{ICHT-IME}{ICHT-IME_0}$ | + 0,55 | $\frac{BT40}{BT40_0}$    |        |
| R3" = | 1    | x | ( 0,15 + 0,3 | $\frac{117,70}{100,90}$       | + 0,55 | $\frac{1025,93}{952,30}$ | = 1,09 |

## CALCUL TERME R4' TC

|       |       |   |             |                          |       |                               |         |
|-------|-------|---|-------------|--------------------------|-------|-------------------------------|---------|
| R4' = | R4'o  | x | ( 0,1 + 0,6 | $\frac{BT40}{BT40_0}$    | + 0,3 | $\frac{ICHT-IME}{ICHT-IME_0}$ | 16,42   |
| R4' = | 14,98 | x | ( 0,1 + 0,6 | $\frac{1025,93}{952,30}$ | + 0,3 | $\frac{117,70}{100,90}$       | = 16,11 |

## CALCUL TERME R5

|      |      |   |             |                       |       |                               |
|------|------|---|-------------|-----------------------|-------|-------------------------------|
| R5 = | R5'o | x | ( 0,1 + 0,6 | $\frac{BT40}{BT40_0}$ | + 0,3 | $\frac{ICHT-IME}{ICHT-IME_0}$ |
|------|------|---|-------------|-----------------------|-------|-------------------------------|

décembre 2016

Valeur en mai 2014

|                            |                  | Contrats 2014 - 2015 |        |        |              | Mis à jour tarif mois n |       |       |              |
|----------------------------|------------------|----------------------|--------|--------|--------------|-------------------------|-------|-------|--------------|
|                            |                  | LV                   | FT     | FB     | Global av4   | LV                      | FT    | FB    | Mois n       |
| Conso                      | MWh PCS          | 28 672               | 7 700  | 3 650  | 40 022       | 31 122                  | 6 500 | 4 000 | 41 622       |
| PEG NORD_MA                | €/MWh pcs        | 21,13                | 21,13  | 21,13  | 21,13        | 18,20                   | 18,20 | 18,20 | 18,20        |
| Prix fournisseur           | €/MWh pcs        | 2,81                 | 0,77   | 0,77   | 2,23         | 3,60                    | 2,27  | 2,27  | 3,22         |
| Terme variable             | €/MWh pcs        | 0,76                 | 5,28   | 5,28   | 2,04         | 0,82                    | 5,82  | 5,82  | 2,24         |
| Stockage                   | €/MWh pcs        | 2,04                 | 1,78   | 1,78   | 1,97         | 2,04                    | 0,93  | 0,93  | 1,73         |
| <b>Prix de ma molécule</b> | <b>€/MWh pcs</b> |                      |        |        | <b>27,37</b> |                         |       |       | <b>25,39</b> |
| TSS                        | €/MWh pcs        | 0,2                  | 0,2    | 0,2    | 0,20         | -                       | -     | -     | 0,00         |
| Biométhane                 | €/MWh pcs        | 0,0072               | 0,0072 | 0,0072 | 0,01         | -                       | -     | -     | 0,00         |
| TICGN                      | €/MWh pcs        | 1,19                 | 1,19   | 1,27   | 1,20         | 1,52                    | 1,52  | 4,34  | 1,79         |
| <b>Taxes</b>               | <b>€/MWh pcs</b> |                      |        |        | <b>1,41</b>  |                         |       |       | <b>1,79</b>  |

| Terme fixe            | € | 183 409 | 36 092 | 17 590 | 237 091     | 203 427  | 31 602 | 19 742 | 254 771     |
|-----------------------|---|---------|--------|--------|-------------|----------|--------|--------|-------------|
| TCS                   |   | 89,32   | 89,32  | 89,32  |             | 99,93    | 99,93  | 99,93  |             |
| TCR                   |   | 64,42   | 64,42  | 64,42  |             | 72,07    | 72,07  | 72,07  |             |
| NTR                   |   | 2       | 2      | 2      |             | 2        | 2      | 2      |             |
| TCL                   |   | 33,92   | 33,92  | 33,92  |             | 37,96    | 37,96  | 37,96  |             |
| CJn                   |   | 340     | 133,50 | 63,40  |             | 340      | 103,89 | 63,72  |             |
| AbtD                  |   | 14296,8 | 707,64 | 707,64 |             | 15717,36 | 764,4  | 764,4  |             |
| Nb_PCE                |   | 1       | 1      | 1      |             | 1        | 1      | 1      |             |
| TSACJ                 |   | 186     |        |        |             | 204,6    |        |        |             |
| taux CTA transport    |   | 0,0471  | 0,0471 | 0,0471 |             | 0,0471   | 0,0471 | 0,0471 |             |
| taux CTA distribution |   | 0,208   | 0,208  | 0,208  |             | 0,208    | 0,208  | 0,208  |             |
| <b>Terme fixe</b>     |   |         |        |        | <b>5,92</b> |          |        |        | <b>6,12</b> |

- = variation mensuelle
- = variation annuelle LE 01/04
- = variation selon contrat d'appro
- = variation annuelle le 01/01
- = variation annuelle le 1/07

G<sub>0</sub> 34,70

$$G = G_0 (Peg - Peg_0) + (Taxe - taxe_0) + (Prime\ fixe - Prime\ fixe_0) / MWh\ gaz$$

**G** 33,29