

# **National Electric Power Regulatory Authority**

Islamic Republic of Pakistan

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Registrar

No. NEPRA/TRF-203/PWEGL-2012/4860-4862 May 30, 2012

Subject:

Decision of National Electric Power Regulatory Authority in the matter of Application of Pakistan Wind Energy Generation (Pvt.) Ltd. Opting for Upfront Tariff for Wind Energy Generation (Case No. NEPRA/TRF-203/PWEGL-2012) Intimation of Decision of Tariff pursuant to Section 31(4) of the Regulation of Generation, Transmission and Distribution of Electric Power Act (XL of 1997)

Dear Sir.

Please find enclosed herewith the subject Decision of the Authority along with Annexure-I (09 pages) in Case No. NEPRA/TRF-203/PWEGL-2012.

- The Decision is being intimated to the Federal Government for the purpose of notification of the approved tariff in the official gazette pursuant to Section 31(4) of the Regulation of Generation, Transmission and Distribution of Electric Power Act (XL of 1997) and Rule 16(11) of the National Electric Power Regulatory Authority (Tariff Standards and Procedure) Rules, 1998.
- Please note that only Order of the Authority at para 03 of the Decision relating to the 3. reference tariff, adjustments, indexation and terms and conditions etc along with Annexure-I needs to be notified in the official Gazette.

Enclosure: As above

(Syed Safeer Hussain)

Secretary Ministry of Water & Power 'A' Block, Pak Secretariat Islamabad

CC:

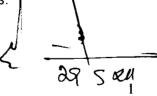
- 1. Secretary, Cabinet Division, Cabinet Secretariat, Islamabad.
- 2. Secretary, Ministry of Finance, Islamabad.





# DECISION OF NATIONAL ELECTRIC POWER REGULATORY AUTHORITY IN THE MATTER OF APPLICATION OF PAKISTAN WIND ENERGY GENERATION (PVT.) LIMITED OPTING FOR UPFRONT TARIFF FOR WIND ENERGY GENERATION CASE NO.NEPRA/TRF-203/PWEGL-2012

- 1. Pakistan Wind Energy Generation (Pvt.) Limited (hereinafter referred to as the "applicant") submitted on February 16, 2012 its unconditional acceptance of upfront tariff for wind power projects (hereinafter referred to as "upfront tariff"), determined by the National Electric Power Regulatory Authority (hereinafter referred to as the "Authority") vide determination dated October 06, 2011, for its proposed wind power generation project of 4.80 MW installed capacity to be located at Jhampir, District Thatta, Sind. The said application was found incomplete. The applicant was informed vide letter No. TRF-100/1410 dated February 20, 2012 regarding the deficiencies and the application was returned for fulfilling the deficiencies. The applicant vide letter received on March 15, 2012 responded to the aforesaid letter of the Authority. However, the information provided by the applicant was still deficient, therefore the applicant was again asked to furnish the required information vide letter No. TRF-100/2138 dated March 21, 2012. The applicant submitted the information on May 11, 2012. The applicant has applied for granting upfront tariff on the basis of 100% local loan.
- 2. The Authority has noted that Alternative Energy Development Board vide letter No. B/3/1/PWEGPL/10 dated March 09, 2012 has recommended the applicant for grant of upfront tariff and in the said letter has also stated that the letter of intent of the applicant is valid and the wind turbine proposed by it is internationally IEC certified. The Authority is also cognizant of the fact that consent of the power purchaser for procurement of the electricity has not been submitted by the applicant. However, the Authority has also noted that Policy For Development Of Renewable Energy For Power Generation, 2006 specifies that it shall be mandatory for the power distribution utilities to buy all the electricity offered to them by the renewable energy projects in accordance with the provisions detailed in that policy. Further, National Transmission and Despatch Company Limited through letter dated February 02, 2012 has also supported the applicant and has referred the matter to Hyderabad Electric Supply Company Limited for issuing consent letter and other necessary actions. Therefore, in view of the available information and consideration of relevant record, the Authority has decided to accept this application and has decided as follows:









# 3. ORDER

Pursuant to Rule 6 of the National Electric Power Regulatory Authority Licensing (Generation) Rules, 2000, Pakistan Wind Energy Generation (Pvt.) Limited (the applicant) is allowed to charge the following specified/approved tariff for delivery of electricity to the power purchaser:

# REFERENCE TARIFF ON BOO BASIS

Tariff figures in Rs./kWh.

	Turin ngares in the						
Years	O & M (including insurance)	Return on equity, etc.	Principal repayment of debt	Interest	Total tariff		
1	2.2591	5.0874	2.9588	10.7983	21.1036		
2	2.2591	5.0874	3.4714	10.2857	21.1036		
3	2.2591	5.0874	4.0728	9.6843	21.1036		
4	2.2591	5.0874	4.7783	8.9788	21.1036		
5	2.2591	5.0874	5.6061	8.1510	21.1036		
6	2.2591	5.0874	6.5773	7.1798	21.1036		
7	2.2591	5.0874	7.7168	6.0403	21.1036		
8	2.2591	5.0874	9.0536	4.7035	21.1036		
9	2.2591	5.0874	10.6220	3.1351	21.1036		
10	2.2591	5.0874	12.4622	1.2949	21.1036		
11 to 20	2.2591	5.0874	-		7.3465		
Levelized – Rs./kWh.							
Indexation	PKR/US \$ & US CPI	PKR/US \$	-	KIBOR			

- i) The terms and conditions specified here in form an integral part of this tariff.
- ii) This tariff is applicable for wind power generation only.
- iii) The power purchaser will not take the wind risk; the applicant will be required to account for this risk.
- iv) The tariff allowed to the applicant will become applicable only after its plant and machinery is certified to be new and of acceptable quality by the Alternative Energy Development Board.



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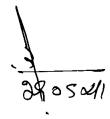
- v) The tariff will only be available to the applicant, if it achieves financial close by December 31, 2012. The up-front tariff granted will no longer remain applicable/valid, if financial close is not achieved by December 31, 2012.
- vi) In the above tariff no adjustment for certified emission reductions has been accounted for. However, upon actual realization of carbon credits, the same shall be distributed between the power purchaser and the applicant in accordance with the government policy, as amended from time to time.
- vii) The targeted maximum construction period after financial close is 18 months. No adjustment will be allowed in this tariff to account for financial impact of any delay in project construction. However, failure of the applicant to complete construction within 18 months of financial close will not invalidate the tariff granted.
- viii) The above tariff will be applicable for a period of twenty years (20) from the commencement of commercial operations.
- ix) The decision of the applicant to opt for upfront tariff is irrevocable.

#### x) Pass-Through Items

This tariff has not accounted for the following:

- Income tax on profit of the applicant from generation of electricity from wind; or
- > Duties and/or taxes on the import of plant, machinery and equipment (other than Sindh infrastructure cess).

If the applicant is obligated to pay, any tax on its income from generation of electricity from wind, or any duties and/or taxes (other than Sindh infrastructure cess), not being of refundable nature, are imposed on the applicant upto the commencement of its commercial operations for import of its plant, machinery and equipment, the exact amount paid by the applicant on these accounts shall be reimbursed by the power purchaser on production of original receipts. This payment should be considered as pass-through payment spread over a twelve (12) months period. Furthermore, in such a scenario, the applicant shall also submit to the power purchaser details of any tax savings and the power purchaser shall









deduct the amount of these savings from its payment to the applicant on account of taxation.

The adjustment for duties and/or taxes will be restricted only to the extent of duties and/or taxes directly imposed on the applicant. No adjustment for taxes imposed on third parties such as contractors, suppliers, consultants, etc., excluding adjustment for taxes imposed on dividend as stated below, will be allowed.

Financial impact of taxation on dividends and Sindh infrastructure cess has already been accounted for in the tariff. In case of change of tax rate on dividend from 7.5% or change in the rate of Sind infrastructure cess from the rates prevailing at the time of this upfront tariff determination, the Authority on an application of the applicant, will allow adjustment of the same.

xi) This tariff has been worked out on the basis of information provided by the applicant regarding its loan structure i.e. 100% local loan and will not be subject to any further change, regardless of any subsequent change(s) in the financing structure, etc., except for the adjustments in accordance with the onetime adjustment mechanism, detailed below, and the application of relevant adjustments / indexations as detailed in this order.

# xii) Onetime adjustment for PKR / US \$ exchange rate variation

The tariff initially granted, will be subsequently adjusted, after 270 days of financial close. The applicant shall make a request for allowing onetime adjustment within 15 days of adjustment becoming due i.e. after 270 days of its financial close.

The base amount for quarter 1 (as indicated in Annex - I) will be adjusted for exchange rate variation, after 270 days of the financial close of the applicant, in accordance with the onetime adjustment mechanism stipulated below:

 $B_{(LFIN)} = (B_{(LREF)} \times 20\%) + (B_{(LREF)} \times 80\% \times ER_{(REV)} / ER_{(REF)})$ 

Where:

B (LFIN)

 The revised base amount for the first quarter after allowing onetime adjustment for exchange

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		rate parity
B (LREF)	=	The reference base amount (as indicated in
		Annex – I) for the first quarter
ER <sub>(REV)</sub>	=	The average, for a period of 270 days after
		financial close, of TT & OD selling rate of US
		dollar as notified by the National Bank of
		Pakistan
ER <sub>(REF)</sub>	=	Reference TT & OD selling rate of US dollar as
		notified by the National Bank of Pakistan i.e. 86

Note: After the revision of base amount of quarter 1, in accordance with the onetime adjustment mechanism stipulated above, the debt service schedule at Annex — I will be recalculated, on the same computation basis as already adopted, and revised principal repayment of debt and interest tariff components will be worked out for subsequent indexations.

# xiii) <u>Indexations</u>

The tariff allowed to the applicant, after onetime adjustment, will remain unchanged throughout the tariff control period, except for the adjustments due to indexations. The indexations will be allowed on quarterly basis on 1<sup>st</sup> July, 1<sup>st</sup> October, 1<sup>st</sup> January and 1<sup>st</sup> April.

The mode of indexations will be as under:

# a) Indexations applicable to O & M (including insurance):

OM &  $I_{(LREV)}$  = OM &  $I_{(LREF)}$  \* US CPI (REV) / US CPI (REF) \* ER (REV) / ER(REF)

Where:

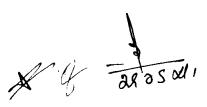
OM & I (LREV) = The revised applicable O & M (including insurance) tariff component indexed with US CPI and exchange rate parity

OM & I (LREF) = The reference O & M (including insurance) tariff component for the relevant period

US CPI (REV) = The revised US CPI (all urban consumers)
based on latest available information with
respect to US CPI (notified by US Bureau of



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#### Labor Statistics)

US CPI (REF) = Reference US CPI (all urban consumers) —
Current reference 225.722 US CPI (all urban consumers) for the month of June 2011 as notified by the US Bureau of Labor Statistics

ER<sub>(REV)</sub> = Revised TT & OD selling rate of US Dollar as notified by the National Bank of Pakistan as at the last day of the preceding quarter

ER<sub>(REF)</sub> = Reference TT & OD selling rate of US dollar as notified by the National Bank of Pakistan – Current reference 86

# b) Indexations applicable to return on equity, etc.

 $ROE_{(LREV)} = ROE_{(LREF)} * ER_{(REV)} / ER_{(REF)}$ 

#### Where:

ROE (LREV) = The revised applicable return on equity, etc. tariff component indexed with exchange rate parity

ROE (LREF) = The reference return on equity, etc. tariff component for the relevant period

ER<sub>(REV)</sub> = Revised TT & OD selling rate of US Dollar as notified by the National Bank of Pakistan as at the last day of the preceding quarter

ER<sub>(REF)</sub> = Reference TT & OD selling rate of US dollar as notified by the National Bank of Pakistan – Current reference 86

# c) Indexations applicable to interest

 $I_{(LREV)} = I_{(LFIN)} + [B_{(LFIN)}] * (KIBOR_{(REV)} - 13.30\%)/135,780,000]$ 

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Where:						
l <sub>(LREV)</sub>	=	The revised applicable interest tariff component indexed with 3 months KIBOR				
I (LFIN)	=	The interest tariff component after allowing onetime adjustment for exchange rate parity				
B (LFIN)	Ξ	The revised base amount (as indicated in Annex – I) on quarterly basis after allowing onetime adjustment for exchange rate parity. Quarter 1 shall commence on the commercial operations date (i.e. the first figure will be used for calculation purposes of interest for the first quarter after COD)				
KIBOR (REV)	=	Revised 3 months KIBOR as at the last day of the preceding quarter				

Note: Above described adjustments will be approved and announced by the Authority within fifteen days of the applicant's request for adjustment in tariff in accordance with the requisite indexation mechanism stipulated herein.

### xiv) Other Terms and Conditions of Tariff:

#### a. Design & Manufacturing Standards:

Wind turbine generation system shall be designed and manufactured in accordance with the standards prescribed by Alternative Energy Development Board. All plant and equipment shall be new.

### b. Emissions Trading/Carbon Credits:

The applicant shall process and obtain emissions/carbon credits expeditiously and credit the proceeds to the power purchaser in accordance with the government policy, as amended from time to time.



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# c. General:

- The Energy Purchase Agreement should stipulate terms and conditions, ensuring that the power plant of the applicant allowed this tariff is properly maintained and continues to supply energy for the entire tariff control period of 20 years.
- Pre COD sale of electricity is allowed to the applicant, subject to the terms and conditions of EPA, at the applicable tariff excluding principal repayment of debt component and interest component. However, pre COD sale will not alter the required commercial operations date stipulated by the Energy Purchase Agreement in any manner.
- General assumptions, which are not covered in this decision, determination of upfront tariff for wind power projects dated October 06, 2011 and National Electric Power Regulatory Authority Upfront Tariff (Approval & Procedure) Regulations, 2011, may be dealt with as per the standard terms of the Energy Purchase Agreement.

#### **AUTHORITY**

(Khawaja Muhammad Naeem)

Member

(Shaukat Ali Kundi) 28.05.2

(Ghiasuddin Anmed)

UTHORITY

(Habibullah Khilji)

Member

Acting Chairman / Member

PAKISTAN WIND ENERGY GENERATION (PVT.) LIMITED Debt Servicing Schedule For Indexations Only (Local Loan)

3 8,947,822,145 102,362,279 364,623,752 8,845,459,865 4 8,845,459,865 106,533,542 360,452,490 8,738,926,323 110,874,784 356,111,248 8,628,051,540 6 8,628,051,540 115,392,931 351,593,100 8,512,658,608 78,512,658,608 120,095,193 346,890,838 8,392,563,415 8 8,392,563,415 124,989,072 341,996,959 8,267,574,343 9 8,267,574,343 130,082,377 336,903,654 8,137,491,966 10 8,137,491,966 135,383,234 331,602,798 8,002,108,732 11 8,002,108,732 140,900,101 326,085,931 7,861,208,631 12 7,861,208,631 146,641,780 320,344,252 7,714,566,852 13 7,714,566,852 152,617,432 314,368,599 7,561,949,419 14 7,561,949,419 158,836,593 308,149,439 7,403,112,827 15 7,403,112,827 165,309,184 301,676,848 7,237,803,643 172,045,533 294,940,498 7,065,758,110 177 7,065,758,110 179,056,389 287,929,643 6,886,701,721 186 6,886,701,721 186,352,936 280,633,095 6,700,348,785 19 6,700,348,785 193,946,818 273,039,213 6,506,401,967 20 6,506,401,967 201,850,151 256,135,880 6,304,551,815 210 6,304,551,815 210,075,545 256,910,486 6,094,476,270 22 6,094,476,270 218,636,123 248,349,908 5,875,840,147 227,545,546 239,440,486 5,648,294,601 236,818,026 230,168,005 5,411,476,575 25 5,411,476,575 246,468,361 220,517,670 5,165,008,214 256,511,947 210,474,085 4,908,496,267 266,964,809 200,021,223 4,641,531,458 277,843,625 189,142,407 4,363,687,834 289,165,752 177,820,279 4,074,522,081 30,494,252 177,820,279 4,074,522,081 30,4074,522,081 300,949,257 166,036,775 3,773,572,825 31,313,313,335,520 33,3134,383,520	20 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Dept del Alc	my Schedule	FUI IIIUEXALIUI	is Only (Local L	.vaii)	PROPERTY AND APPROXIMATION OF THE PROPERTY APPROXIMATION OF THE PROPERTY AND APPROXIMATION OF THE PROPERTY A
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6         8,628,051,540         115,392,931         351,593,100         8,512,658,608         3.4714         10.2857           7         8,512,658,608         120,095,193         346,890,838         8,392,563,415         124,989,072         341,996,959         8,267,574,343         341,996,959         8,267,574,343         130,082,377         336,903,654         8,137,491,966         135,383,234         331,602,798         8,002,108,732         4.0728         4.0728         4.0728         9.6843           11         8,002,108,732         140,900,101         326,085,931         7,861,208,631         4.0728         9.6843           12         7,861,208,631         146,641,780         320,344,252         7,714,566,852         4.0728         9.6843           13         7,714,566,852         152,617,432         314,368,599         7,561,949,419         148,836,593         308,149,439         7,403,112,827         4.7783         8.9788           15         7,403,112,827         165,309,184         301,676,848         7,237,803,643         172,045,533         294,940,498         7,055,758,110         4.7783         8.9788           19         6,700,348,785         193,946,818         273,039,213         6,506,401,967         5,668,204,476,270         218,636,123         248,349,908							
7         8,512,658,608         120,095,193         346,890,838         8,392,563,415         10.2857           8         8,392,563,415         124,989,072         341,996,959         8,267,574,343         10.2857           9         8,267,574,343         130,082,377         336,903,654         8,137,491,966         135,383,234         331,602,798         8,002,108,732         4.0728           11         8,002,108,732         140,900,101         326,085,931         7,861,208,631         4.0728         9.6843           12         7,861,208,631         146,641,780         320,344,252         7,714,566,852         152,617,432         314,368,599         7,561,949,419         4.7783         15         7,403,112,827         165,309,184         301,676,848         7,237,803,643         4.7783         8.9788           16         7,237,803,643         172,045,533         294,940,498         7,065,758,110         4.7783         8.9788           19         6,700,348,785         193,946,818         273,039,213         6,506,401,967         201,850,151         265,135,880         6,304,551,815         260,034,476,270         218,636,123         248,349,908         5,875,840,147         227,545,546         239,440,486         5,648,294,601         236,818,024         220,517,670         5,165,008,214<		<del></del>					
8         8,392,563,415         124,989,072         341,996,959         8,267,574,343         130,082,377         336,903,654         8,137,491,966         10         8,137,491,966         135,383,234         331,602,798         8,002,108,732         4,0728         4,0728         9,6843           11         8,002,108,732         140,900,101         326,085,931         7,861,208,631         4,0728         9,6843           12         7,861,208,631         146,641,780         320,344,252         7,714,566,852         152,617,432         314,368,599         7,561,949,419         14         7,561,949,419         158,836,593         308,149,439         7,403,112,827         4,7783         8,9788           15         7,403,112,827         165,309,184         301,676,848         7,237,803,643         4,7783         8,9788           16         7,237,803,643         172,045,533         294,940,498         7,065,758,110         179,056,389         287,929,643         6,886,701,721         4,7783         8,9788           19         6,700,348,785         193,946,818         273,039,213         6,506,401,967         5,606,401,967         5,606,401,967         5,606,401,967         5,606,401,967         5,606,401,967         5,606,401,967         5,606,401,967         5,606,401,967         5,606,401,967 <td< td=""><td></td><td><del></del></td><td><del></del></td><td></td><td></td><td>3.4714</td><td rowspan="2">10.2857</td></td<>		<del></del>	<del></del>			3.4714	10.2857
9         8,267,574,343         130,082,377         336,903,654         8,137,491,966         4,0728         9.6843           10         8,137,491,966         135,383,234         331,602,798         8,002,108,732         4,0728         4,0728         9.6843           11         8,002,108,732         140,900,101         326,085,931         7,861,208,631         4,0728         9.6843           12         7,861,208,631         146,641,780         320,344,252         7,714,566,852         152,617,432         314,368,599         7,561,949,419         14         7,561,949,419         158,836,593         308,149,439         7,403,112,827         4,7783         8.9788           16         7,237,803,643         172,045,533         294,940,498         7,065,758,110         7,065,758,110         179,056,389         287,929,643         6,886,701,721         4,7783         8.9788           17         7,065,758,110         179,056,389         287,929,643         6,886,701,721         5,6061         8,1510           20         6,506,401,967         201,850,151         265,135,880         6,304,551,815         5,6061         8,1510           21         6,304,551,815         210,075,545         256,910,486         6,094,476,270         218,636,123         248,349,908         5,87		<del></del>					
10         8,137,491,966         135,383,234         331,602,798         8,002,108,732         4.0728         9.6843           11         8,002,108,732         140,900,101         326,085,931         7,861,208,631         4.0728         9.6843           12         7,861,208,631         146,641,780         320,344,252         7,714,566,852         1.0620         7.14,566,852         1.0620         7.065,768,20         7.065,768,20         7.065,768,20         7.065,768,20         7.065,768,419         7.065,768,419         7.065,768,419         7.065,768,419         7.065,758,110         7.065,758,110         7.065,758,110         170,056,758,210         170,056,758,210         170,056,058,213         170,056,058,213         170,056,058,213 <t< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td></t<>		-					
11         8,002,108,732         140,900,101         326,085,931         7,861,208,631         4.0728         9.5843           12         7,861,208,631         146,641,780         320,344,252         7,714,566,852         1.3         7,714,566,852         152,617,432         314,368,599         7,561,949,419         1.4         7,561,949,419         158,836,593         308,149,439         7,403,112,827         4.7783         4.7783         8.9788           15         7,403,112,827         165,309,184         301,676,848         7,237,803,643         172,045,533         294,940,498         7,065,758,110         179,056,389         287,929,643         6,886,701,721         186,352,936         280,633,095         6,700,348,785         5.6061         8.1510           19         6,700,348,785         193,946,818         273,039,213         6,506,401,967         201,850,151         265,135,880         6,304,551,815         5.6061         8.1510           20         6,506,401,967         201,850,151         265,135,880         6,304,551,815         5.6061         8.7198           21         6,304,551,815         210,075,545         256,910,486         6,094,476,270         218,636,123         248,349,908         5,875,840,147         7.7168           23         5,875,840,147         227							0.000
12         7,861,208,631         146,641,780         320,344,252         7,714,566,852         1           13         7,714,566,852         152,617,432         314,368,599         7,561,949,419         1         4,7561,949,419         158,836,593         308,149,439         7,403,112,827         4,7783         4,7783         8.9788           15         7,403,112,827         165,309,184         301,676,848         7,237,803,643         172,045,533         294,940,498         7,065,758,110         179,056,389         287,929,643         6,886,701,721         186,352,936         280,633,095         6,700,348,785         5,606,401,967         201,850,151         265,135,880         6,304,551,815         5,606,401,967         201,850,151         265,135,880         6,304,551,815         5,606,401,967         218,636,123         248,349,908         5,875,840,147         22         6,094,476,270         218,636,123         248,349,908         5,875,840,147         227,545,546         239,440,486         5,648,294,601         236,818,026         230,168,005         5,411,476,575         426,468,361         220,517,670         5,165,008,214         256,511,947         210,474,085         4,908,496,267         7,7168         6.0403           27         4,908,496,267         266,964,809         200,021,223         4,641,531,458         7,71			140,900,101		7,861,208,631	4,0728	9.6843
13         7,714,566,852         152,617,432         314,368,599         7,561,949,419         4.77,561,949,419         158,836,593         308,149,439         7,403,112,827         4.7783         8.9788           15         7,403,112,827         165,309,184         301,676,848         7,237,803,643         4.7783         8.9788           16         7,237,803,643         172,045,533         294,940,498         7,065,758,110         7,065,758,110         179,056,389         287,929,643         6,886,701,721         18         6,886,701,721         186,352,936         280,633,095         6,700,348,785         5.6061         5.6061         8.1510           19         6,700,348,785         193,946,818         273,039,213         6,506,401,967         5.6061         8.1510           20         6,506,401,967         201,850,151         265,135,880         6,304,551,815         5.6061         8.1510           21         6,304,551,815         210,075,545         256,910,486         6,094,476,270         6.5773         7.1798           23         5,875,840,147         227,545,546         239,440,486         5,648,294,601         6.5773         7.1798           24         5,648,294,601         236,818,026         230,168,005         5,411,476,575         7.7168         7.7				<del></del>			
14         7,561,949,419         158,836,593         308,149,439         7,403,112,827         4.7783         8.9788           15         7,403,112,827         165,309,184         301,676,848         7,237,803,643         172,045,533         294,940,498         7,065,758,110         17         7,065,758,110         179,056,389         287,929,643         6,886,701,721         186,352,936         280,633,095         6,700,348,785         193,946,818         273,039,213         6,506,401,967         201,850,151         265,135,880         6,304,551,815         210,075,545         256,910,486         6,094,476,270         22         6,094,476,270         218,636,123         248,349,908         5,875,840,147         227,545,546         239,440,486         5,648,294,601         6.5773         7.1798           24         5,648,294,601         236,818,026         230,168,005         5,411,476,575         246,468,361         220,517,670         5,165,008,214         256,511,947         210,474,085         4,908,496,267         266,964,809         200,021,223         4,641,531,458         7.7168         6.0403           28         4,641,531,458         277,843,625         189,142,407         4,363,687,834         9.0536         4.7035           30         4,074,522,081         300,949,257         166,036,775         3,773	<b></b>	-		314,368,599	7,561,949,419		
15       7,403,112,827       165,309,184       301,676,848       7,237,803,643       4.7783       8.9788         16       7,237,803,643       172,045,533       294,940,498       7,065,758,110       7,065,758,110       17       7,065,758,110       179,056,389       287,929,643       6,886,701,721       8.1510       6,886,701,721       186,352,936       280,633,095       6,700,348,785       5.6061       5.606,401,967       201,850,151       265,135,880       6,304,551,815       5.6061       5.606,401,967       201,850,151       265,135,880       6,304,551,815       5.6061       5.606,401,967       21,0075,545       256,910,486       6,094,476,270       22,6,094,476,270       218,636,123       248,349,908       5,875,840,147       227,545,546       239,440,486       5,648,294,601       5,648,294,601       236,818,026       230,168,005       5,411,476,575       5,411,476,575       246,468,361       220,517,670       5,165,008,214       256,511,947       210,474,085       4,908,496,267       7.7168       6.0403         28       4,641,531,458       277,843,625       189,142,407       4,363,687,834       289,165,752       177,820,279       4,074,522,081       9.0536       4.7035         30       4,074,522,081       300,949,257       166,036,775       3,773,572,825       313,212,939	14	<del></del>		308,149,439		4.7783	8.9788
16       7,237,803,643       172,045,533       294,940,498       7,065,758,110       17       7,065,758,110       179,056,389       287,929,643       6,886,701,721       18       6,886,701,721       186,352,936       280,633,095       6,700,348,785       5,606,401,967       5,606,401,967       201,850,151       265,135,880       6,304,551,815       5,606,401,967       201,850,151       265,135,880       6,304,551,815       5,609,4476,270       218,636,123       248,349,908       5,875,840,147       22       6,094,476,270       218,636,123       248,349,908       5,875,840,147       6,5773       7,1798         23       5,875,840,147       227,545,546       239,440,486       5,648,294,601       6,5773       7,1798         24       5,648,294,601       236,818,026       230,168,005       5,411,476,575       246,468,361       220,517,670       5,165,008,214       26       5,165,008,214       256,511,947       210,474,085       4,908,496,267       266,964,809       200,021,223       4,641,531,458       7,7168       6.0403         28       4,641,531,458       277,843,625       189,142,407       4,363,687,834       289,165,752       177,820,279       4,074,522,081       9,0536       4.7035         31       3,773,572,825       313,212,939       153,773,093       3,460,3				301,676,848			
17       7,065,758,110       179,056,389       287,929,643       6,886,701,721       5.6061       8.1510         18       6,886,701,721       186,352,936       280,633,095       6,700,348,785       5.6061       8.1510         19       6,700,348,785       193,946,818       273,039,213       6,506,401,967       5.6061       8.1510         20       6,506,401,967       201,850,151       265,135,880       6,304,551,815       6,304,551,815       6,094,476,270       218,636,123       248,349,908       5,875,840,147       6.5773       7.1798         23       5,875,840,147       227,545,546       239,440,486       5,648,294,601       6.5773       7.1798         24       5,648,294,601       236,818,026       230,168,005       5,411,476,575       246,468,361       220,517,670       5,165,008,214       7.7168       6.0403         25       5,411,476,575       246,468,361       220,517,670       5,165,008,214       7.7168       6.0403         27       4,908,496,267       266,964,809       200,021,223       4,641,531,458       7.7168       6.0403         29       4,363,687,834       289,165,752       177,820,279       4,074,522,081       9.0536       4.7035         31       3,773,572,825       313,212		-					
18       6,886,701,721       186,352,936       280,633,095       6,700,348,785       5.6061       8.1510         19       6,700,348,785       193,946,818       273,039,213       6,506,401,967       5.6061       8.1510         20       6,506,401,967       201,850,151       265,135,880       6,304,551,815       6,304,551,815       6,094,476,270       218,636,123       248,349,908       5,875,840,147       6,5773       7.1798         23       5,875,840,147       227,545,546       239,440,486       5,648,294,601       6,5773       7.1798         24       5,648,294,601       236,818,026       230,168,005       5,411,476,575       246,468,361       220,517,670       5,165,008,214       5,165,008,214       256,511,947       210,474,085       4,908,496,267       7.7168       6.0403         27       4,908,496,267       266,964,809       200,021,223       4,641,531,458       7.7168       6.0403         28       4,641,531,458       277,843,625       189,142,407       4,363,687,834       9.0536       4.7035         30       4,074,522,081       300,949,257       166,036,775       3,773,572,825       9.0536       4.7035         31       3,773,572,825       313,212,939       153,773,093       3,460,359,886       325,9							
19     6,700,348,785     193,946,818     273,039,213     6,506,401,967     5.6061     8.1510       20     6,506,401,967     201,850,151     265,135,880     6,304,551,815     6,304,551,815     210,075,545     256,910,486     6,094,476,270     6,506,401,476,270     218,636,123     248,349,908     5,875,840,147     6.5773     7.1798       23     5,875,840,147     227,545,546     239,440,486     5,648,294,601     6.5773     7.1798       24     5,648,294,601     236,818,026     230,168,005     5,411,476,575     246,468,361     220,517,670     5,165,008,214     5,165,008,214     256,511,947     210,474,085     4,908,496,267     7.7168     6.0403       27     4,908,496,267     266,964,809     200,021,223     4,641,531,458     7.7168     6.0403       28     4,641,531,458     277,843,625     189,142,407     4,363,687,834     29     4,363,687,834     289,165,752     177,820,279     4,074,522,081     9.0536     4.7035       30     4,074,522,081     300,949,257     166,036,775     3,773,572,825     31     3,773,572,825     313,212,939     153,773,093     3,460,359,886     325,976,366     141,009,665     3,134,383,520     9.0536     4.7035       31     3,740,359,886     325,976,366     141,009,665     3						5.6061	8.1510
20       6,506,401,967       201,850,151       265,135,880       6,304,551,815       7.1798         21       6,304,551,815       210,075,545       256,910,486       6,094,476,270       6,094,476,270       218,636,123       248,349,908       5,875,840,147       6.5773       7.1798         23       5,875,840,147       227,545,546       239,440,486       5,648,294,601       5,648,294,601       236,818,026       230,168,005       5,411,476,575       246,468,361       220,517,670       5,165,008,214       5,165,008,214       256,511,947       210,474,085       4,908,496,267       7.7168       6.0403         27       4,908,496,267       266,964,809       200,021,223       4,641,531,458       7.7168       6.0403         28       4,641,531,458       277,843,625       189,142,407       4,363,687,834       7.7168       6.0403         30       4,074,522,081       300,949,257       166,036,775       3,773,572,825       313,212,939       153,773,093       3,460,359,886       325,976,366       141,009,665       3,134,383,520       4.7035         31       3,795,123,617       353,084,744       113,901,287       2,442,038,873       10,6220       3,1351							
21       6,304,551,815       210,075,545       256,910,486       6,094,476,270       7.1798         22       6,094,476,270       218,636,123       248,349,908       5,875,840,147       7.1798         23       5,875,840,147       227,545,546       239,440,486       5,648,294,601       6.5773         24       5,648,294,601       236,818,026       230,168,005       5,411,476,575       246,468,361       220,517,670       5,165,008,214         25       5,411,476,575       246,468,361       220,517,670       5,165,008,214       7.7168         26       5,165,008,214       256,511,947       210,474,085       4,908,496,267       7.7168         27       4,908,496,267       266,964,809       200,021,223       4,641,531,458         28       4,641,531,458       277,843,625       189,142,407       4,363,687,834         29       4,363,687,834       289,165,752       177,820,279       4,074,522,081         30       4,074,522,081       300,949,257       166,036,775       3,773,572,825         31       3,773,572,825       313,212,939       153,773,093       3,460,359,886         32       3,460,359,886       325,976,366       141,009,665       3,134,383,520         33       3,134,383,520 <td>20</td> <td></td> <td>201,850,151</td> <td>265,135,880</td> <td>6,304,551,815</td> <td></td>	20		201,850,151	265,135,880	6,304,551,815		
22       6,094,476,270       218,636,123       248,349,908       5,875,840,147       6.5773       7.1798         23       5,875,840,147       227,545,546       239,440,486       5,648,294,601       6.5773       7.1798         24       5,648,294,601       236,818,026       230,168,005       5,411,476,575       7.7168       7.7168         25       5,411,476,575       246,468,361       220,517,670       5,165,008,214       7.7168       7.7168         26       5,165,008,214       256,511,947       210,474,085       4,908,496,267       7.7168       6.0403         27       4,908,496,267       266,964,809       200,021,223       4,641,531,458       7.7168       6.0403         28       4,641,531,458       277,843,625       189,142,407       4,363,687,834       7.7168       6.0403         30       4,074,522,081       300,949,257       166,036,775       3,773,572,825       9.0536       7.7035         31       3,773,572,825       313,212,939       153,773,093       3,460,359,886       9.0536       7.703         32       3,460,359,886       325,976,366       141,009,665       3,134,383,520       9.0536       7.703         34       2,795,123,617       353,084,744       113,901,287 </td <td>21</td> <td></td> <td></td> <td></td> <td>6,094,476,270</td> <td></td> <td></td>	21				6,094,476,270		
23       5,875,840,147       227,545,546       239,440,486       5,648,294,601       6.5773       7.1798         24       5,648,294,601       236,818,026       230,168,005       5,411,476,575       7.7168 <t< td=""><td>22</td><td></td><td></td><td>248,349,908</td><td>5,875,840,147</td><td>6 5550</td><td rowspan="3">7.1798</td></t<>	22			248,349,908	5,875,840,147	6 5550	7.1798
25     5,411,476,575     246,468,361     220,517,670     5,165,008,214       26     5,165,008,214     256,511,947     210,474,085     4,908,496,267       27     4,908,496,267     266,964,809     200,021,223     4,641,531,458       28     4,641,531,458     277,843,625     189,142,407     4,363,687,834       29     4,363,687,834     289,165,752     177,820,279     4,074,522,081       30     4,074,522,081     300,949,257     166,036,775     3,773,572,825       31     3,773,572,825     313,212,939     153,773,093     3,460,359,886       32     3,460,359,886     325,976,366     141,009,665     3,134,383,520       33     3,134,383,520     339,259,903     127,726,128     2,795,123,617       34     2,795,123,617     353,084,744     113,901,287     2,442,038,873	23	· · · · · ·		239,440,486	5,648,294,601	6.5773	
26       5,165,008,214       256,511,947       210,474,085       4,908,496,267       7.7168         27       4,908,496,267       266,964,809       200,021,223       4,641,531,458       7.7168         28       4,641,531,458       277,843,625       189,142,407       4,363,687,834       4,074,522,081         30       4,074,522,081       300,949,257       166,036,775       3,773,572,825       9.0536         31       3,773,572,825       313,212,939       153,773,093       3,460,359,886       9.0536         32       3,460,359,886       325,976,366       141,009,665       3,134,383,520       9.0536         33       3,134,383,520       339,259,903       127,726,128       2,795,123,617         34       2,795,123,617       353,084,744       113,901,287       2,442,038,873	24	5,648,294,601	236,818,026	230,168,005	5,411,476,575		
27       4,908,496,267       266,964,809       200,021,223       4,641,531,458       7.7168       6.0403         28       4,641,531,458       277,843,625       189,142,407       4,363,687,834       29       4,363,687,834       289,165,752       177,820,279       4,074,522,081       30       4,074,522,081       300,949,257       166,036,775       3,773,572,825       31       3,773,572,825       313,212,939       153,773,093       3,460,359,886       9.0536       4.7035         32       3,460,359,886       325,976,366       141,009,665       3,134,383,520       3,134,383,520       339,259,903       127,726,128       2,795,123,617       2,442,038,873       10.6220       3,1351	25	5,411,476,575	246,468,361	220,517,670	5,165,008,214		•
27     4,908,496,267     266,964,809     200,021,223     4,641,531,458       28     4,641,531,458     277,843,625     189,142,407     4,363,687,834       29     4,363,687,834     289,165,752     177,820,279     4,074,522,081       30     4,074,522,081     300,949,257     166,036,775     3,773,572,825       31     3,773,572,825     313,212,939     153,773,093     3,460,359,886       32     3,460,359,886     325,976,366     141,009,665     3,134,383,520       33     3,134,383,520     339,259,903     127,726,128     2,795,123,617       34     2,795,123,617     353,084,744     113,901,287     2,442,038,873	26			210,474,085	4,908,496,267	7.7160	6.0400
29     4,363,687,834     289,165,752     177,820,279     4,074,522,081       30     4,074,522,081     300,949,257     166,036,775     3,773,572,825       31     3,773,572,825     313,212,939     153,773,093     3,460,359,886       32     3,460,359,886     325,976,366     141,009,665     3,134,383,520       33     3,134,383,520     339,259,903     127,726,128     2,795,123,617       34     2,795,123,617     353,084,744     113,901,287     2,442,038,873	27	4,908,496,267	266,964,809	200,021,223	4,641,531,458	7.7100	6.0403
30     4,074,522,081     300,949,257     166,036,775     3,773,572,825     9.0536       31     3,773,572,825     313,212,939     153,773,093     3,460,359,886       32     3,460,359,886     325,976,366     141,009,665     3,134,383,520       33     3,134,383,520     339,259,903     127,726,128     2,795,123,617       34     2,795,123,617     353,084,744     113,901,287     2,442,038,873       10.6220     3,1351	28	4,641,531,458	277,843,625	189,142,407	4,363,687,834		
31     3,773,572,825     313,212,939     153,773,093     3,460,359,886     9.0536       32     3,460,359,886     325,976,366     141,009,665     3,134,383,520       33     3,134,383,520     339,259,903     127,726,128     2,795,123,617       34     2,795,123,617     353,084,744     113,901,287     2,442,038,873       10.6220     3,1351	29	4,363,687,834	289,165,752	177,820,279	4,074,522,081		
31     3,773,572,825     313,212,939     153,773,093     3,460,359,886       32     3,460,359,886     325,976,366     141,009,665     3,134,383,520       33     3,134,383,520     339,259,903     127,726,128     2,795,123,617       34     2,795,123,617     353,084,744     113,901,287     2,442,038,873       10.6220     3,1351	30	4,074,522,081	300,949,257	166,036,775	3,773,572,825	0.0536	4 7035
33     3,134,383,520     339,259,903     127,726,128     2,795,123,617       34     2,795,123,617     353,084,744     113,901,287     2,442,038,873       10.6220     3,1351	31	3,773,572,825	313,212,939	153,773,093	3,460,359,886	9.0536	4.7033
34 2,795,123,617 353,084,744 113,901,287 2,442,038,873 10.6220 3,1351	32	3,460,359,886	325,976,366	141,009,665	3,134,383,520		
10.0220   3.1351	33	3,134,383,520	339,259,903	127,726,128	2,795,123,617		-
05 0 440 000 070 067 470 047 00 510 004 0 074 565 005 10.0220   5.1051	34	2,795,123,617	353,084,744	113,901,287	2,442,038,873	10 6220	2 1251
35 [ 2,442,038,873 [ 367,472,947 [ 99,513,084 [ 2,074,565,925 ]	35	2,442,038,873	367,472,947	99,513,084	2,074,565,925	10.6220	3.1351
36 2,074,565,925 382,447,470 84,538,561 1,692,118,455	36	2,074,565,925	382,447,470	84,538,561	1,692,118,455		
37 1,692,118,455 398,032,204 68,953,827 1,294,086,251	37	1,692,118,455	398,032,204	68,953,827	1,294,086,251		
38 1,294,086,251 414,252,017 52,734,015 879,834,234 12,4622 1,2949	38	1,294,086,251	414,252,017	52,734,015		12.4622	1.2949
39 879,834,234 431,132,786 35,853,245 448,701,447	39				448,701,447		
40 448,701,447 448,701,447 18,284,584 0 CREE	40	448,701,447	448,701,447	18,284,584	0		ICR REGO

Denominator for tariff component calculation: 135,780,000

Note: These figures have been worked out for the purposes of indexation only.

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