

Bilateral Power Landed Price Calculator

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Bilateral Price Calculator

*Web based tool for buyers, sellers and traders for calculating the landed price of power.
Uses updated information about the various charges and losses that applies
from point of injection to point of drawl.*

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Browser Support :     

Bilateral contract in electricity market is an agreement between a willing buyer and a willing seller to exchange electricity under mutually agreed terms for a specified period of time. Bilateral arrangements are crucial to the functioning of electricity markets, because they allow both parties to have the price stability and certainty necessary to perform long-term planning and to make rational and socially optimal investments.

Tweets by [@50hertzIn](#)

Salient features of this tool include:

- Applicable for buying and selling for any duration.
- Can be applied to any type of power.
- Can be used to calculate trading charges for any state.
- Captures all mandatory information for calculation.
- Basic charge calculation can be viewed online.
- Can be downloaded either to pdf or to excel format.

Login Page



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Email Id:

Password:

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If you forget your password use this link

A registered user can log this screen with a registered e-mail id and password

If you are a new user Use this link

A sample of User Registration Page



Register User

Fields marked with asterisk (*) are required.

*First Name :	<input type="text" value="Pavan"/>
*Last Name :	<input type="text" value="Kumar"/>
*Contact No :	<input type="text" value="9876245617"/>
*Designation :	<input type="text" value="Assistant Manager"/>
*Company Name :	<input type="text" value="Powerfield Pvt Ltd"/>
*Address :	<input type="text" value="G15, 5th Floor,
Sector 3, Gandhinagar"/>
*City :	<input type="text" value="Gandhinagar"/>
*Postal Code :	<input type="text" value="382010"/>
*State Name :	<input type="text" value="Gujarat"/>
*Email :	<input type="text" value="pavan.kumar@gmail.com"/>
*Password :	<input type="password" value="....."/>
*Confirm Password :	<input type="password" value="....."/>

Enter your personal and company details and get registered here

I Agree to the Secure Enersoft Limited Terms and Condition.

A Sample for Intra State Buyer Calculation

For Intra state buyer Calculation “Seller Injection Area and Buyer Drawl Area must be in same state”

A Sample for Intra State Buyer Calculation

Price Calculator

Volume and Prices Seller Injection Point Buyer Drawl Point

Calculate to*: Buy Sell It will calculate Seller Realization Cost.

Type of Power*: Conventional ▼

Trading Mode*: Bilateral ▼

Injection/Drawl Volume In MW*: 5

Allow 15 Minutes Block:

Start Hour*: 00 ▼ End Hour*: 24 ▼

No Of Hours*: 24

Start Date*: 09/07/2014 End Date*: 24/07/2014

Period In Days*: 16

Total Volume In MWH : 1920

Price Unit*: Rs/KWH ▼

Price (Rs/KWH)*: 5

TraderCharge (Rs/KWH)*: 0.07

Any Other Charges (Rs/KWH)*: 0.0

Include RPO Factor:

Next

Buyer can enter the volume in MW he wishes to purchase

Buyer to enter the time period in a day and period of transaction in which he wishes to buy

This is automatically calculated

User can enter his choice of price In KWh or MWh at which he wishes to buy power

Check this box if you wish to include Renewable Purchase Obligation factor in your calculation

A Sample for Intra State Buyer Calculation

Price Calculator

Volume and Prices	Seller Injection Point	Buyer Drawl Point
Region :	North ▼	Buyer can select the region and state from where he wishes to buy
State :	Haryana ▼	Buyer can select this option if the seller is connected directly either to Central Transmission Utility lines or any other Private Regional entity
Connected to CTU only: <input type="checkbox"/>		
Transco :	HVPNL - Haryana Vidyut Prasa ▼	Buyer to enter all the seller details Regarding his connectivity with the grid
Discom :	Uttar Haryana Biili Vitran Nigam ▼	
Connected At :	132 ▼	

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A Sample for Intra State Buyer Calculation

Price Calculator

Volume and Prices	Seller Injection Point	Buyer Drawl Point
Region :	North	The buyer to select his details like location of Region and state
State :	Haryana	
Connected to CTU only: <input type="checkbox"/>		
Transco :	HVPLN - Haryana Vidyut Prasa	Also select all connectivity Details such as Transmission Company, Distribution Company and connectivity voltage
Discom :	Uttar Haryana Biili Vitran Nidarr	
Connected At :	33	

Back Submit

The buyer can select this option if he is connected to Central Transmission Utility or a Private Regional Entity

A Sample for Intra State Buyer Calculation Final Result page

SELLER REALIZATION COST AT GENERATION BUS BAR

₹ 1.321 /KWH

Net cost realized by the seller depending on your price, all losses and charges incurred from seller injection point up to the drawl point

SELLER INJECTION VOLUME

5.128 MW

User Inputs

[View Details](#)

A. Total Transmission Loss Value Per Unit

₹ 0.034

[View Det](#)

B. Total Transmission and Distribution Charge Per Unit

₹ 1.037

[View Det](#)

C. Total Scheduling and Operating Charge Per Unit

₹ 0.017

[View Det](#)

D. Total Application Charge Per Unit

₹ 0.001

[View Det](#)

E. Total RPO Cost Per Unit

₹ 0.0

[View Det](#)

F. Total Charge Payable (B + C + D + E)

₹ 1.055

[View Det](#)

G. Seller Price at Generation Bus Bar Per Unit

₹ 1.321

[View Details](#)

Buyer can see step by step charges incurred at each Stage of transaction and Buyer can view the best fit price required from the seller injection point up to the drawl point to match buyer's price

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You can easily download the detailed calculation in pdf or excel

A Sample for Intra State Buyer Calculation

View Detailed calculations

A. Total Transmission Loss Value Per Unit		₹ 0.034		View Details
Volume After Transmission Loss Adjustment	Losses (%)	Volume (KWH)	Per Unit (₹ /KWH)	Source
Drawl Volume		3600000		
Drawl Volume Before Wheeling Drawl Loss	0.0	3600000	0.0	
Drawl Volume Before Adding State Transmission Utility Loss(at Drawl End)	0.0	3600000	0.0	
Drawl Volume Before Central Transmission Utility Drawl Loss	0.0	3600000	0.0	
Drawl Volume Before Central Transmission Utility Injection Loss	0.0	3600000	0.0	
Drawl Volume Before Adding State Transmission Utility Loss(at Injection End)	2.5	3692307.5	0.034	
Drawl Volume Before Wheeling Injection Loss(Injection Volume)	0.0	3692307.5	0.0	
Total Transmission Loss Value			0.034	

Click here to View details

Click on the 'pdf' icon to view or download the data source documents. The relevant data is highlighted & sticky notes are also visible when Mozilla Firefox is used

Similarly you can click on other headers from point no. B to point no. G to view respective detailed calculations along with Data source Documents

A Sample for Intra State Seller Calculation

In intra state seller calculation “Seller Injection Area and Buyer Drawl Area should be in same state”

A Sample for Intra State Seller Calculation

Volume and Prices

Seller Injection Point

Buyer Drawl Point

Calculate to*:

Buy Sell

It will calculate Landing Price.

Type of Power*:

Conventinnal

Trading Mode*:

Bilateral

Injection/Drawl Volume In MW* :

5

Allow 15 Minutes Block:

Start Hour*:

00

End Hour*:

24

No Of Hours* :

24

Start Date*:

01/07/2014

End Date*:

30/07/2014

Period In Days* :

30

Total Volume In MWh :

3600

Price Unit*:

Rs/KWH

Price (Rs/KWH)*

2.5

TraderCharge (Rs/KWH)*

0.07

Any Other Charges (Rs/KWH)*

0.0

Include RPO Factor:

Seller can the enter the volume he wishes to sell

Seller to enter the transaction details like time period of transaction, starting and end date of transaction

Seller can enter the price in KWh or MWh at which he wishes to sell

Check this box if you wish to include Renewable Purchase Obligation factor in your calculation.

Next

A Sample for Intra State Seller Calculation

Price Calculator

Volume and Prices	Seller Injection Point	Buyer Drawl Point
Region :	North	
State :	Haryana	
Connected to CTU only: <input type="checkbox"/>		
Transco :	HVPL - Haryana Vidyut Prasa	
Discom :	Uttar Haryana Bili Vitran Nidarr	
Connected At :	132	

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Annotations:

- Seller can select the region and state depending on his location
- Seller can select this option if he is connected directly either to Central Transmission Utility lines or any other Private Regional entity.
- Seller to enter all his details regarding his connectivity with the grid

A Sample for Intra State Seller Calculation

Price Calculator

Volume and Prices	Seller Injection Point	Buyer Drawl Point
Region :	North	
State :	Haryana	
Connected to CTU only: <input type="checkbox"/>		
Transco :	HVPSNL - Haryana Vidyut Prasa	
Discom :	Uttar Haryana Biili Vitran Nidarr	
Connected At :	33	

Back Submit

Seller to select buyer details like location of region and state.

The seller can select this option if the Buyer is connected to Central Transmission Utility or a Private Regional Transmission Utility

Also select all connectivity details, such as Transmission Company, Distribution Company and connectivity voltage depending on whom he wants to sell

A Sample for Intra State Seller Calculation

Final Result page

LANDING PRICE

₹ 5.763 /KWH

Net landing price for the buyer depending on your price, all losses and charges incurred from your injection point up to buyer's drawl point

BUYER DRAWL VOLUME

4.875 MW

User Inputs

A. Total Transmission Loss Value Per Unit

₹ 0.064

B. Total Transmission and Distribution Charge Per Unit

₹ 1.037

C. Total Scheduling and Operating Charge Per Unit

₹ 0.017

D. Total Application Fee Per Unit

₹ 0.001

E. Total RPO Factor Per Unit

₹ 0.053

F. Total Charge Payable (B + C + D + E)

₹ 1.109

G. Buyer Price at Drawl Bus Per Unit

₹ 5.763

Seller can see step by step charges incurred at each stage of transaction and can view the calculation involved to find the landing price from the injection point up to buyer drawl point to match your choice of price

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A Sample for Intra State Seller Calculation

View Detailed calculations

Volume After Transmission Loss Adjustment	Losses (%)	Volume (KWH)	Per Unit (₹ /KWH)	Source
Total Volume		3600000		
Volume after Wheeling Injection Loss	0.0	3600000	0.0	
Volume after State Transmission Utility Loss(At Injection End)	2.5	3510000	0.064	
Volume After Central Transmission Utility Injection Loss	0.0	3510000	0.0	
Volume after Central Transmission Utility Drawl Loss	0.0	3510000	0.0	
Volume after State Transmission Utility Loss(At Drawl End)	0.0	3510000	0.0	
Volume after Wheeling Drawl Loss(Drawl Volume)	0.0	3510000	0.0	
Total Transmission Loss Value			0.064	

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A Sample for Inter State Buyer Calculation

In inter state buyer calculation “Seller Injection Area and Buyer Drawl Area should be from different state”

A Sample for Inter State Buyer Calculation

Price Calculator

Volume and Prices	Seller Injection Point	Buyer Drawl Point	
Calculate to*:	<input checked="" type="radio"/> Buy <input type="radio"/> Sell	It will calculate Seller Realization Cost.	
Type of Power*:	Conventional		
Trading Mode*:	Bilateral		
Injection/Drawl Volume In MW* :	5		
Allow 15 Minutes Block:	<input type="checkbox"/>		
Start Hour*:	00	End Hour*:	24
No Of Hours* :	24		
Start Date*:	01/07/2014	End Date*:	30/07/2014
Period In Days* :	30		
Total Volume In MWh :	3600		
Price Unit*:	Rs/KWh		
Price* :	4.5		
Trader Charge* :	0.07		
Any Other Charges :	0.0		
Include RPO Factor:	<input type="checkbox"/>		

Next

Buyer can enter the volume in MW he wishes to purchase

Buyer to enter the time period in a day and period of transaction in which he wishes to buy

This is automatically calculated

User can enter his choice of price In KWh or MWh at which he wishes to buy power

Check this box if you wish to include Renewable Purchase Obligation factor in your calculation

A Sample for Inter State Buyer Calculation

Price Calculator

Volume and Prices	Seller Injection Point	Buyer Drawl Point
Region :	North	Buyer can select the region and state from where he wishes to buy
State :	Haryana	Buyer can select this option if the seller is connected directly either to Central Transmission Utility lines or any other Private Regional entity
Connected to CTU only: <input type="checkbox"/>		
Transco :	HVPSNL - Haryana Vidyut Prasa	Buyer to enter all the seller details regarding his connectivity with the grid
Discom :	Uttar Haryana Bili Vitran Nigam	
Connected At :	132	

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A Sample for Inter State Buyer Calculation

Price Calculator

Volume and Prices	Seller Injection Point	Buyer Drawl Point
Region :	West ▼	
State :	Maharashtra ▼	
Connected to CTU only: <input type="checkbox"/>		
Transco :	Maharashtra State Electricity Ti ▼	
Discom :	Maharashtra State Electriciv Dis ▼	
Connected At :	33 ▼	
Category :	Industrv ▼	
Industry Type For Maharashtra :	ExpressFeeder ▼	

Back Submit

Buyer has to furnish all details regarding his region and state.

Also he has to select Transmission Company and Distribution Company name which will appear in the drop-down list.

Upon selection of buyer's connection voltage, category of consumer and type of industry, buyer can click on 'SUBMIT' button to find the result

A Sample for Inter State Buyer Calculation

Final Result page

SELLER REALIZATION COST AT GENERATION BUS BAR ₹ 1.657 /KWH

SELLER INJECTION VOLUME 5.916 MW

Net cost realized by the seller depending on your price, all losses and charges incurred from seller injection point up to the drawl point

User Inputs

[View Details](#)

A. Total Transmission Loss Value Per Unit ₹ 0.304 [View Details](#)

B. Total Transmission and Distribution Charge Per Unit ₹ 1.216 [View Details](#)

C. Total Scheduling and Operating Charge Per Unit ₹ 0.068 [View Details](#)

D. Total Application Charge Per Unit ₹ 0.005 [View Details](#)

E. Total RPO Cost Per Unit ₹ 0.0 [View Details](#)

F. Total Charge Payable (B + C + D + E) ₹ 1.289 [View Details](#)

G. Seller Price at Generation Bus Bar Per Unit ₹ 1.657 [View Details](#)

Buyer can see step by step charges incurred at each Stage of transaction and Buyer can view the best fit price required from the seller injection point up to the drawl point to match buyer's price

ExportPDF

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You can easily download the detailed calculation in pdf or excel

A Sample for Inter State Buyer Calculation

View Detailed calculations

A. Total Transmission Loss Value Per Unit		₹ 0.304		View Details
Volume After Transmission Loss Adjustment	Losses (%)	Volume (KWH)	Per Unit (₹ /KWH)	Source
Drawl Volume		3600000		
Drawl Volume Before Wheeling Drawl Loss	6.0	3829787.25	0.118	
Drawl Volume Before Adding State Transmission Utility Loss(at Drawl End)	4.19	3997273	0.077	
Drawl Volume Before Central Transmission Utility Drawl Loss	2.49	4099346.75	0.044	
Drawl Volume Before Central Transmission Utility Injection Loss	1.29	4152919.5	0.022	
Drawl Volume Before Adding State Transmission Utility Loss(at Injection End)	2.5	4259404.5	0.042	
Drawl Volume Before Wheeling Injection Loss(Injection Volume)	0.0	4259404.5	0.0	
Total Transmission Loss Value			0.304	

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A Sample for Inter State Seller Calculation

In inter state seller calculation “Seller Injection Area and Buyer Drawl Area should be from different state”

A Sample for Inter State Seller Calculation

Volume and Prices	Seller Injection Point	Buyer Drawl Point	
Calculate to*:	<input type="radio"/> Buy <input checked="" type="radio"/> Sell It will calculate Landing Price.		
Type of Power*:	<input type="text" value="Conventional"/>		
Trading Mode*:	<input type="text" value="Bilateral"/>		
Injection/Drawl Volume In MW* :	<input type="text" value="5"/>		
Allow 15 Minutes Block:	<input type="checkbox"/>		
Start Hour*:	<input type="text" value="00"/>	End Hour*:	<input type="text" value="24"/>
No Of Hours* :	<input type="text" value="24"/>	End Date*:	<input type="text" value="30/07/2014"/>
Start Date*:	<input type="text" value="01/07/2014"/>		
Period In Days* :	<input type="text" value="30"/>		
Total Volume In MWh :	<input type="text" value="3600"/>		
Price Unit*:	<input type="text" value="Rs/KWH"/>		
Price (Rs/KWH)*	<input type="text" value="2.5"/>		
TraderCharge (Rs/KWH)*	<input type="text" value="0.07"/>		
Any Other Charges (Rs/KWH)*	<input type="text" value="0.0"/>		
Include RPO Factor:	<input checked="" type="checkbox"/>		
			<input type="button" value="Next"/>

Seller can the enter the volume he wishes to sell

Seller to enter the transaction details like time period of transaction, starting and end date of transaction

Seller can enter the price in KWh or MWh at which he wishes to sell

Check this box if you wish to include Renewable Purchase Obligation factor in your calculation.

A Sample for Inter State Seller Calculation

Price Calculator

Volume and Prices	Seller Injection Point	Buyer Drawl Point
Region :	North	
State :	Haryana	
Connected to CTU only: <input type="checkbox"/>		
Transco :	HVPL - Haryana Vidyut Prasa	
Discom :	Uttar Haryana Bili Vitran Nidarr	
Connected At :	132	

Back

Next

Seller can select the region and state depending on his location

Seller can select this option if he is connected directly either to Central Transmission Utility lines or any other Private Regional entity.

Seller to enter all his details regarding his connectivity with the grid

A Sample for Inter State Seller Calculation

Price Calculator

Volume and Prices	Seller Injection Point	Buyer Drawl Point
Region :	West	
State :	Maharashtra	
Connected to CTU only: <input type="checkbox"/>		
Transco :	Maharashtra State Electricity Ti	
Discom :	Maharashtra State Electricity Dis	
Connected At :	33	
Category :	Industrv	
Industry Type For Maharashtra :	ExpressFeeder	

Back

Submit

Seller has to furnish all details regarding buyer's region and state.

Also seller has to select Transmission Company and Distribution Company name which will appear in the drop-down list.

Upon selection of buyer's connection voltage, category of consumer and type of industry, seller can click on 'SUBMIT' button to find the result

A Sample for Inter State Seller Calculation

Final Result page

LANDING PRICE ₹ 5.684 /KWH

BUYER DRAWL VOLUME 4.226 MW

Net landing price for the buyer depending on your price, all losses and charges incurred from your injection point up to buyer's drawl point

User Inputs		View Details
A. Total Transmission Loss Value Per Unit	₹ 0.458	View Details
B. Total Transmission and Distribution Charge Per Unit	₹ 1.216	View Details
C. Total Scheduling and Operating Charge Per Unit	₹ 0.08	View Details
D. Total Application Fee Per Unit	₹ 0.006	View Details
E. Total RPO Factor Per Unit	₹ 0.174	View Details
F. Total Charge Payable (B + C + D + E)	₹ 1.476	View Details
G. Buyer Price at Drawl Bus Per Unit	₹ 5.684	View Details

Seller can see step by step charges incurred at each stage of transaction and can view the calculation involved to find the landing price from the injection point up to buyer drawl point to match your choice of price

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You can easily download the detailed calculation in pdf or excel

A Sample for Inter State Seller Calculation

View Detailed calculations

Volume After Transmission Loss Adjustment	Losses (%)	Volume (KWH)	Per Unit (₹ /KWH)	Source
Total Volume		3600000		
Volume after Wheeling Injection Loss	0.0	3600000	0.0	
Volume after State Transmission Utility Loss(At Injection End)	2.5	3510000	0.064	
Volume After Central Transmission Utility Injection Loss	1.29	3464721	0.033	
Volume after Central Transmission Utility Drawl Loss	2.49	3378449.5	0.064	
Volume after State Transmission Utility Loss(At Drawl End)	4.19	3236892.5	0.109	
Volume after Wheeling Drawl Loss(Drawl Volume)	6.0	3042679	0.16	
Total Transmission Loss Value			0.458	

₹ 0.458

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Thank You

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contactus@50hertz.in