Annexure-1

Wind World India has come up with one of its kind internet portal for efficient display of the generation data and the status of the wind farm.

W-Care is internet portal for the customers to give them the daily generation reports and the status of their wind farm and their turbines on a day to day basis. This was developed to create a sense of transparency about the daily generation of the wind turbine and also to keep a central visual control about the various activities related to generation. This facility allows the customer to have clear visibility about the condition and the generation of their wind turbine.

Taking a step forward, to help the customer identify with a face and a voice where in they can communicate with a real face about the queries. This is a team where in the customers can call up and ask the panel about any Wind farm related query and activities**.**

Following step-by-step procedure will help you to view the web enabled DGR of Wind World India.

Step-01

Start your web browser application (e.g. Internet Explorer, Mozila, Netscape Navigator etc) and type www.windworldindia.com in the address bar and press enter button from your keyboard. This will take you to the official portal of Enercon (India) Ltd. Go to Partner connect and then to Customer Portal. The screen will look as shown below.

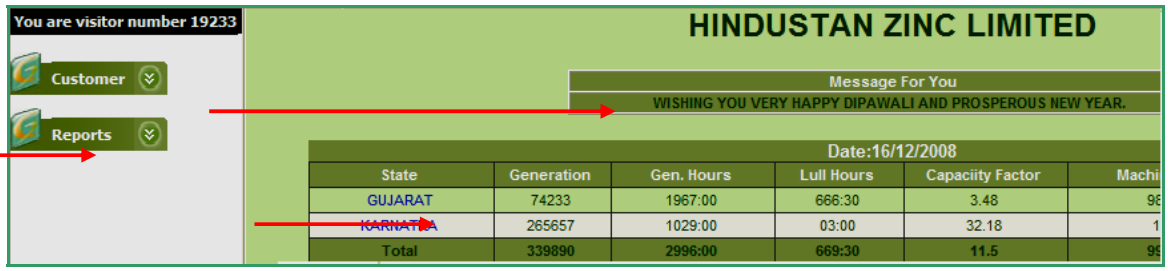
Home page www.windworldindia.com

Step-02

Click on the link **customer login**, to move to the following window.

Enter the **login id** and **password** provided to you in the respective text boxes.

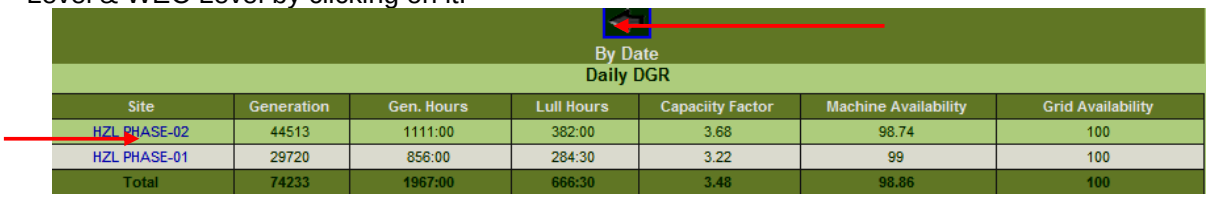
Correct login will lead you to following screen.



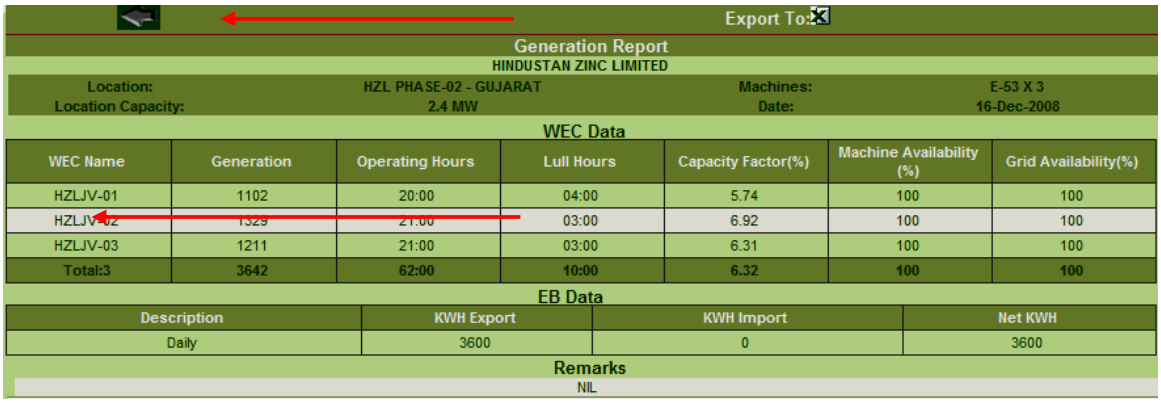
On this screen you will get (*If the DGR for current date is available*):

a) The messages posted by e-care administrator.
b) State-wise WEC Meter data in summarized manner.
c) Expandable links for specific purposes.

NOTE: The state Names are Hyper-linked and can be further drilled down to Site Level & WEC Level by clicking on it.

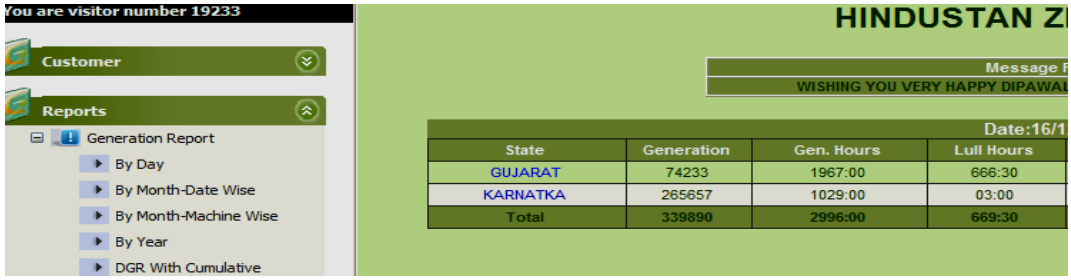


Back to Previous Page



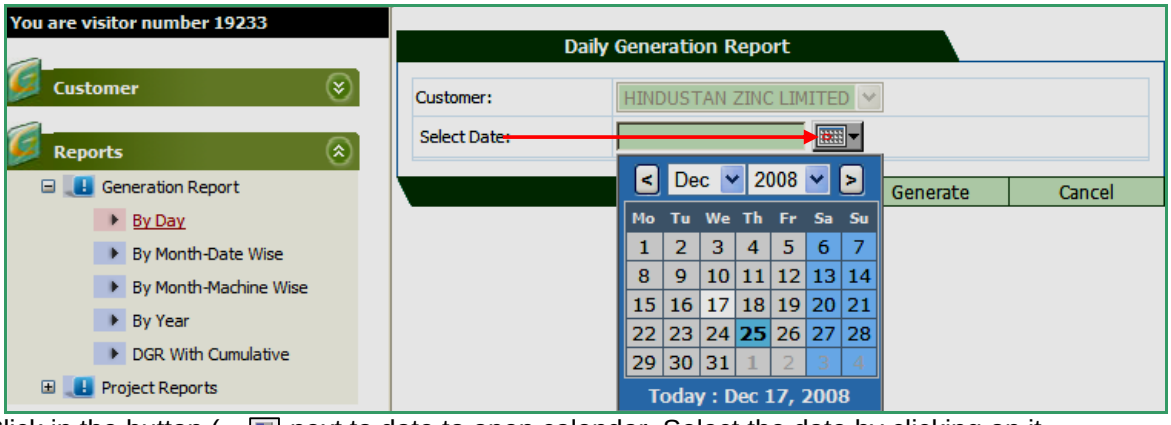
Step-03

Click on the plus sign (+) of **generation report** to expand the link as shown in the following figure. From this screen you will be able to generation **Daily (By-Day & DGR with Cumulative), Monthly (By Month –Date Wise & By Month – Machine Wise)** and **Yearly (By Year)** generation reports.



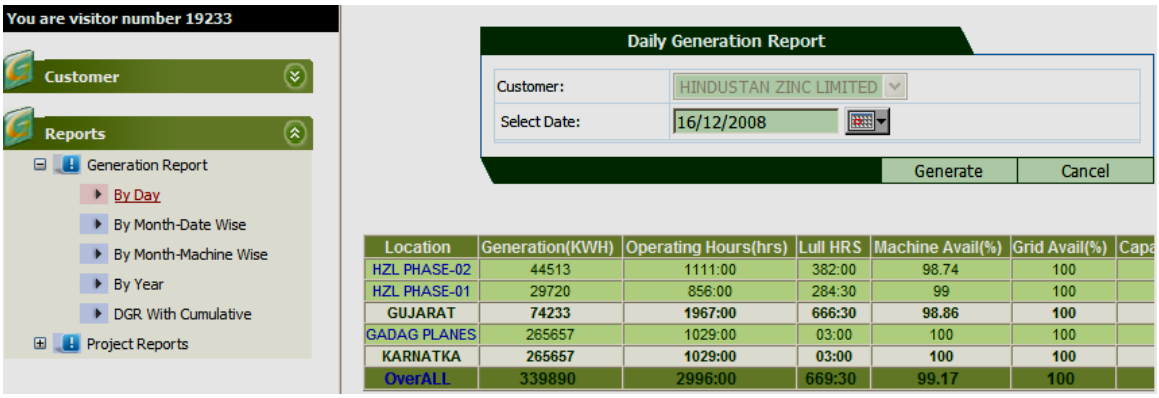
Step-04

Click on **BY Day**, select the date and click on Generate , to view the generation of a specific date.

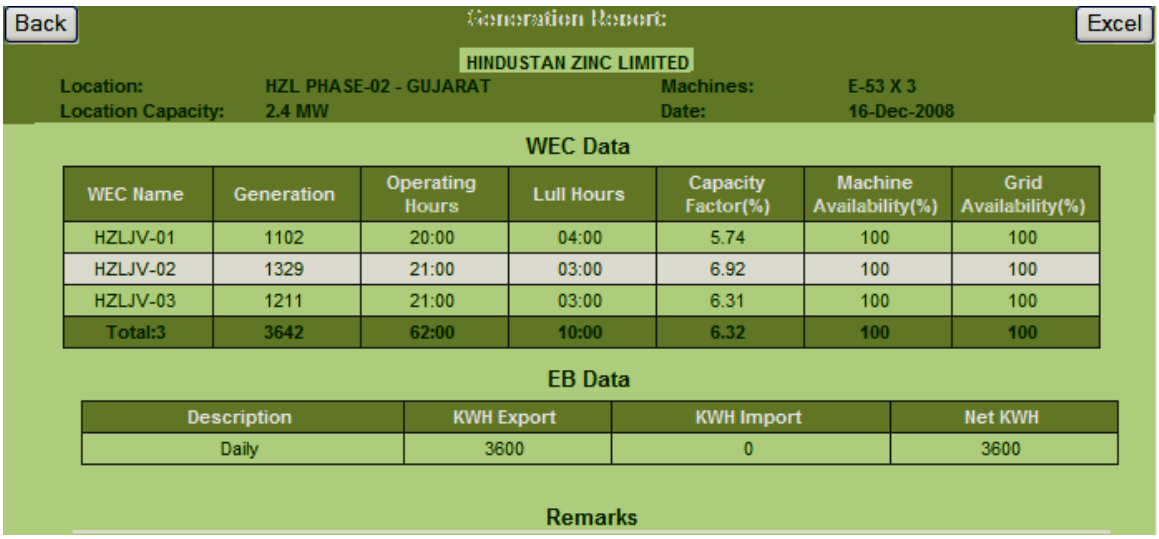


Click in the button ( ) next to date to open calendar. Select the date by clicking on it.

The screen may look as under.



(This can be further drilled down to WEC Level as explained above)

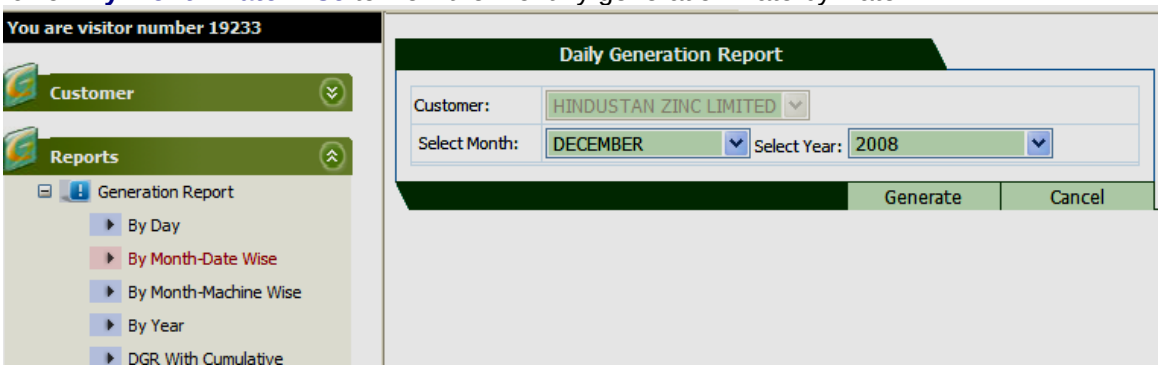


Back Will take you to the previous page.

Excel Will allow you to save the report in the Excel format.

Step-05

Click on **By Month-Date wise** to view the monthly generation Date by Date.



Select Month (DECEMBER) and Year (2008) from the Drop Down list and Generate. A monthly summary report will appear.

Location	Generation(KWH)	Operating Hours(hrs)	Lull HRS	Machine Avail(%)	Grid Avail(%)	Capacity Factor(%)
HZL PHASE-02	3929135	21821:00	2042:45	99.31	99.33	20.3
HZL PHASE-01	3429595	16855:00	1272:15	99.52	98.83	23.26
GUJARAT	**7358730**	**38676:00**	**3315:00**	**99.4**	**99.11**	**21.58**
GADAG PLANES	2174626	15677:00	432:45	97.56	100	16.46
KARNATKA	**2174626**	**15677:00**	**432:45**	**97.56**	**100**	**16.46**

Click on the Location name, Hyperlink (HZL PHASE-02) to get **Date-Wise Generation** report for the entire month.

Generation Date: 01-12-2008

WEC Name	Generation	Operating Hours	Lull Hours	Capacity Factor(%)	Machine Availability(%)	Grid Availability(%)
HZLJV-01	7154	24:00	0	37.26	100	100
HZLJV-02	6758	24:00	0	35.2	100	100
HZLJV-03	7710	24:00	0	40.16	100	100
Total:3	**21622**	**72:00**	**0**	**37.54**	**100**	**100**

EB Data

Description	KWH Export	KWH Import	Net KWH
Daily	21400	0	21400

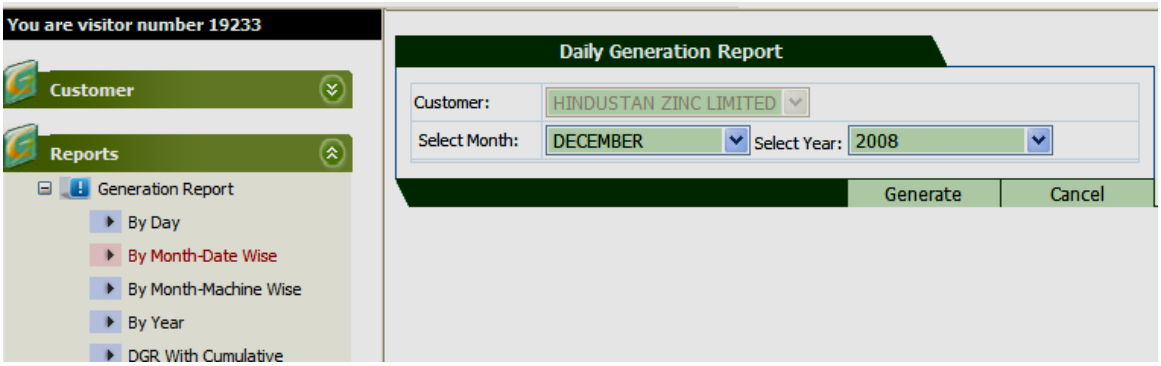
Remarks

Generation Date: 02-12-2008

WEC Name	Generation	Operating Hours	Lull Hours	Capacity Factor(%)	Machine Availability(%)	Grid Availability(%)
HZLJV-01	2514	23:00	01:00	13.09	100	100
HZLJV-02	2242	22:00	02:00	11.68	100	100
HZLJV-03	2720	24:00	0	14.17	100	100
Total:3	**7476**	**69:00**	**03:00**	**12.98**	**100**	**100**

Step-06

Click on **By Month Machine-Wise** to view the generation WEC by WEC.



Select **Month** (DECEMBER) and **Year** (2008) from the Drop Down list and Generate. A monthly summary report will appear.

Location	Generation(KWH)	Operating Hours(hrs)	Lull HRS	Machine Avail(%)	Grid Avail(%)	Capacity Factor(%)
HZL PHASE-02	3929135	21821:00	2042:45	99.31	99.33	20.3
HZL PHASE-01	3429595	16855:00	1272:15	99.52	98.83	23.26
GUJARAT	**7358730**	**38676:00**	**3315:00**	**99.4**	**99.11**	**21.58**
GADAG PLANES	2174626	15677:00	432:45	97.56	100	16.46
KARNATKA	**2174626**	**15677:00**	**432:45**	**97.56**	**100**	**16.46**

Click on the Location name Hyperlink (HZL PHASE-02) to get per **WEC Date-Wise Generation** report for the entire month. Here Each WEC itself is a Hyper Link.

Back | View All Machine | Excel

Generation Report:

HINDUSTAN ZINC LIMITED

Location:	**HZL PHASE-02 - GUJARAT**	**Machines:**	**E-53 X 3**
Location Capacity:	**2.4 MW**	**Month:**	**DECEMBER-2008**

WEC Data

WEC Name	Generation	Operating Hours	Lull Hours	Capacity Factor(%)	Machine Availability(%)	Grid Availability(%)
HZLJV-01	60664	350:00	34:00	19.75	100	100
HZLJV-02	56895	347:00	37:00	18.52	100	100
HZLJV-03	60795	353:00	31:00	19.79	100	100
Total:	**178354**	**1050:00**	**102:00**	**19.35**	**100**	**100**

EB Data

Description	KWH Export	KWH Import	Net KWH
Monthly	176400	100	176300

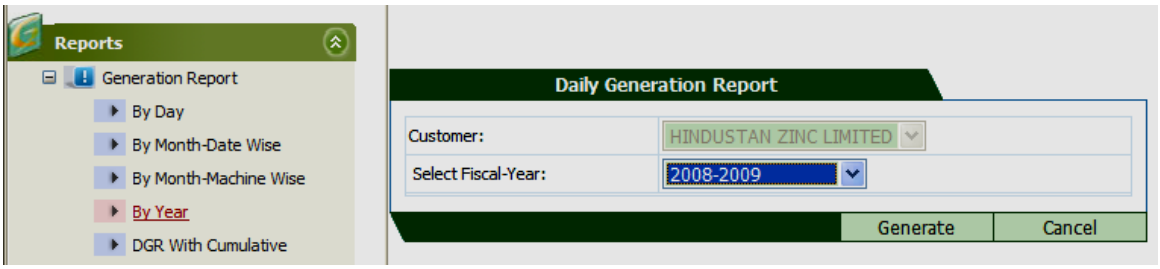
Here each WEC itself is a Hyper Linked Object. Click on WEC to View that WEC's Day-by-Day generation.

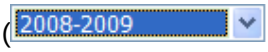
Date	Generation	Operating Hours	Lull Hours	Capacity Factor (%)	Machine Availability(%)	Grid Availability (%)
01-Dec-2008	7154	24:00	0	37.26	100	100
02-Dec-2008	2514	23:00	01:00	13.09	100	100
03-Dec-2008	2845	24:00	0	14.82	100	100
04-Dec-2008	1923	18:00	06:00	10.02	100	100
05-Dec-2008	3505	24:00	0	18.26	100	100
06-Dec-2008	1564	17:00	07:00	8.15	100	100
07-Dec-2008	4857	24:00	0	25.3	100	100
08-Dec-2008	686	16:00	08:00	3.57	100	100
09-Dec-2008	1520	16:00	08:00	7.92	100	100
10-Dec-2008	6124	24:00	0	31.9	100	100
11-Dec-2008	8547	24:00	0	44.52	100	100
12-Dec-2008	7265	24:00	0	37.84	100	100
13-Dec-2008	4335	24:00	0	22.58	100	100
14-Dec-2008	4439	24:00	0	23.12	100	100
15-Dec-2008	2284	24:00	0	11.9	100	100
16-Dec-2008	1102	20:00	04:00	5.74	100	100
Total:	**60664**	**350:00**	**34:00**	**19.75**	**100**	**100**

Click on (View All Machine) to Generate the same report for all WEC WEC-By-WEC.

Step-07

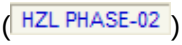
Click on **By Year** to view the generation for a Year.



Select Year (

) from the Drop Down list and Generate, **Yearly Summary** report.

Location	Generation(KWH)	Operating Hours(hrs)	Lull HRS	Machine Avail(%)	Grid Avail(%)	Capacity Factor(%)
HZL PHASE-02	77376055	358955:00	20885:10	98.87	98.78	24.86
HZL PHASE-01	58989026	279186:00	14103:55	99.33	98.94	24.71
GUJARAT	**136365081**	**638141:00**	**34989:05**	**99.07**	**98.85**	**24.8**
GADAG PLANES	45037052	206121:00	15711:10	98.39	99.02	24.72
KARNATKA	**45037052**	**206121:00**	**15711:10**	**98.39**	**99.02**	**24.72**

Click on the Location name Hyperlink (

) to get **each** WEC **Yearly Cumulative Generation** report.

WEC Data

WEC Name	Generation	Operating Hours	Lull Hours	Capacity Factor(%)	Machine Availability(%)	Grid Availability(%)
HZLJV-01	1341429	5813:00	305:38	26.87	98.99	99.06
HZLJV-02	1337297	5815:00	314:28	26.79	99.16	99.06
HZLJV-03	1341749	5836:00	314:18	26.88	99.5	99.06
Total:	**4020475**	**17464:00**	**934:24**	**26.85**	**99.22**	**99.06**

Here Each WEC itself is a Hyper Link. Click on **WEC** to View that WEC's **Month-by-Month** generation.

Location:	HZL PHASE-02-GUJARAT	Year:	2008-2009
Capacity:	E-53/800	WEC:	HZLJV-01

WEC Data

Month	Generation	Operating Hours	Lull Hours	Capacity Factor (%)	Machine Availability(%)	Grid Availability (%)
APRIL	133574	645:00	45:50	23.19	98.04	97.91
MAY	293505	720:00	08:31	49.31	98.87	99.05
JUNE	224993	665:00	15:32	39.06	98.44	96.08
JULY	186953	728:00	07:40	31.41	99.6	99.28
AUGUST	169810	726:00	15:45	28.53	99.7	100
SEPTEMBER	116932	662:00	44:20	20.3	98.47	99.63
OCTOBER	50363	646:00	98:00	8.46	100	100
NOVEMBER	104635	671:00	36:00	18.17	98.19	100
DECEMBER	60664	350:00	34:00	19.75	100	100
Total:	1341429	5813:00	305:38	26.87	98.99	99.06

Click on (View All Machine) to Generate the same report for all WEC WEC-By-

Capacity:	E-53/800			WEC:	HZLJV-01	

WEC Data

Month	Generation	Operating Hours	Lull Hours	Capacity Factor(%)	Machine Availability(%)	Grid Availability(%)
APRIL	133574	645:00	45:50	23.19	98.04	97.91
MAY	293505	720:00	08:31	49.31	98.87	99.05
JUNE	224993	665:00	15:32	39.06	98.44	96.08
JULY	186953	728:00	07:40	31.41	99.6	99.28
AUGUST	169810	726:00	15:45	28.53	99.7	100
SEPTEMBER	116932	662:00	44:20	20.3	98.47	99.63
OCTOBER	50363	646:00	98:00	8.46	100	100
NOVEMBER	104635	671:00	36:00	18.17	98.19	100
DECEMBER	60664	350:00	34:00	19.75	100	100
Total:	1341429	5813:00	305:38	26.87	98.99	99.06

HINDUSTAN ZINC LIMITED

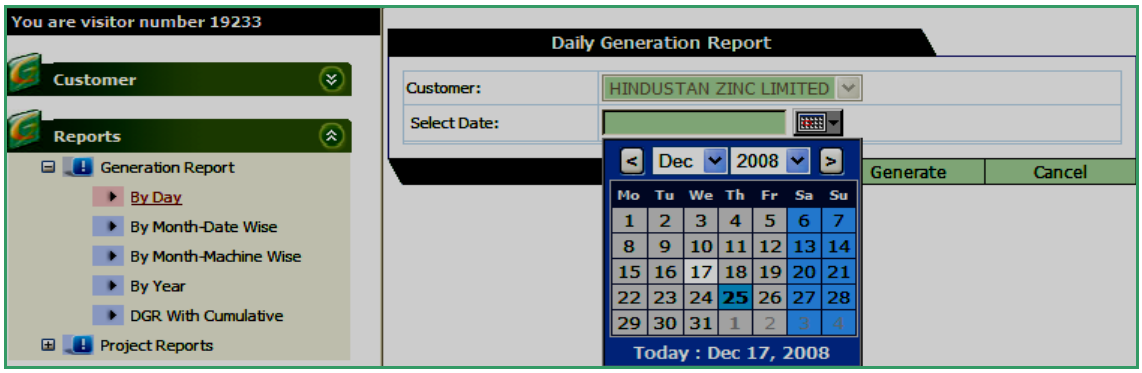
Location:	HZL PHASE-02-GUJARAT		Year:	2008-2009
Capacity:	E-53/800		WEC:	HZLJV-02

WEC Data

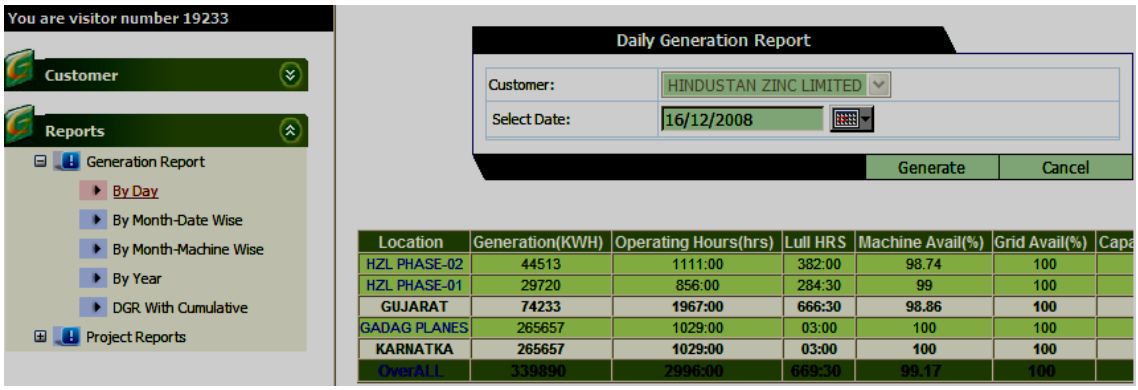
Month	Generation	Operating Hours	Lull Hours	Capacity Factor(%)	Machine Availability(%)	Grid Availability(%)
APRIL	136873	656:00	38:45	23.76	98.59	97.91
MAY	299655	731:00	05:11	50.35	99.9	99.05
JUNE	225595	660:00	14:17	39.17	97.57	96.08
JULY	185981	728:00	10:40	31.25	100	99.28
AUGUST	170481	726:00	13:45	28.64	99.43	100
SEPTEMBER	110405	656:00	55:20	19.17	99.17	99.63
OCTOBER	50338	644:00	100:00	8.46	100	100

Step-08

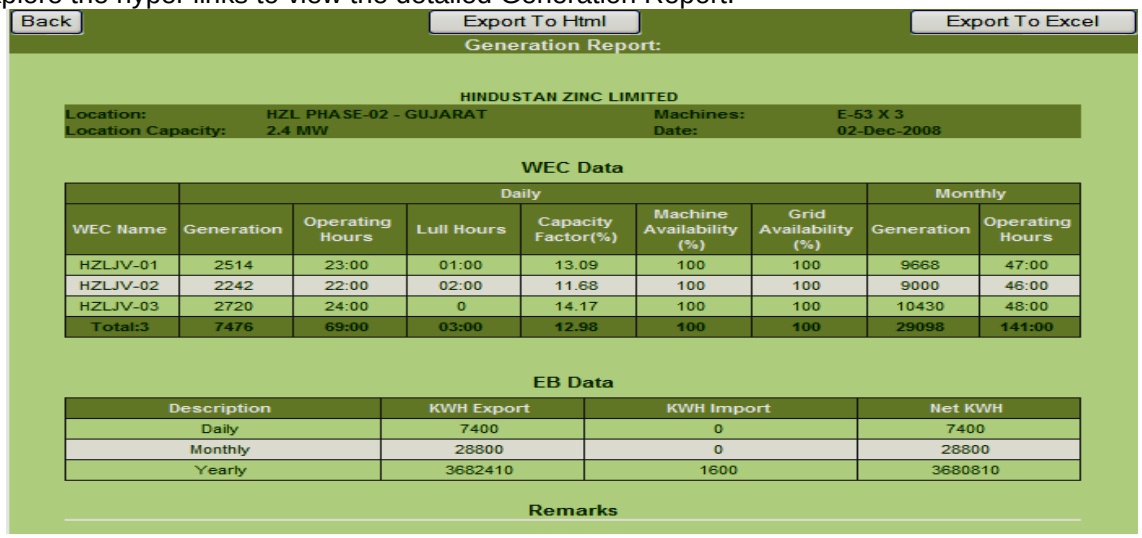
Click on **DGR with Cumulative,** select date and generate to view the Daily Generation Report in different format.



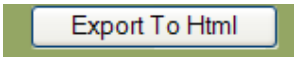
The screen may look as under.



Explore the hyper links to view the detailed Generation Report.



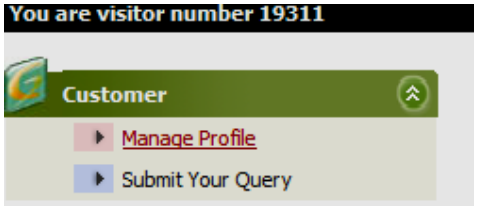
We can view the WEC data on Daily, Monthly and Yearly format.



This will help us to save the report in PDF like format.

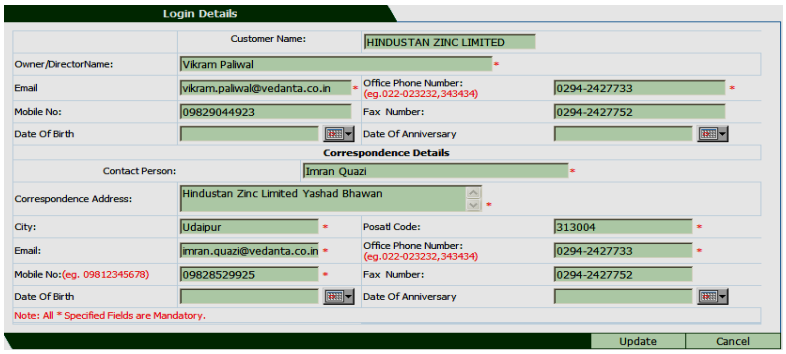
Additional

Expand customer option and use following options.



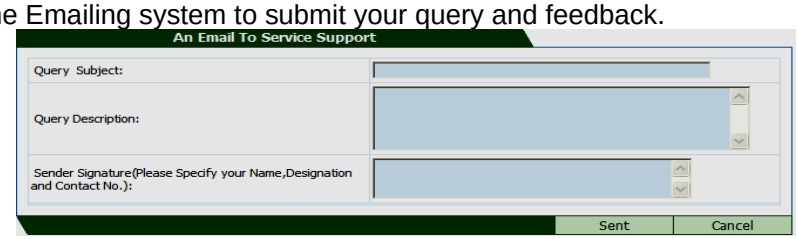
I. Manage profile:

Use this option to enter and update your contact details.

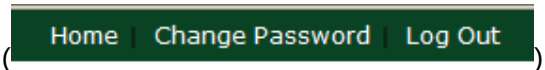


II. Submit Your Query:

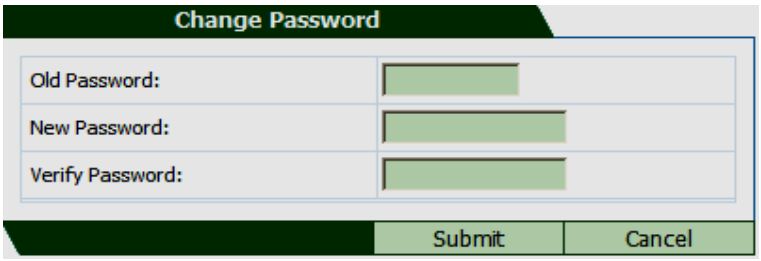
This is an On-line Emailing system to submit your query and feedback.



III. Change Password:

Using Change Password option (

) appearing in title of the page, you can change the Login Passwords.



HAPPY VIEWING

WIND WORLD
Clean Energy Forever

Abbreviation details in DGR Remarks

PM - Preventive Maintenance

STS - Special Maintenance / Retrofitting / Modifications/STS Work

BD - Breakdown Maintenance

FM - Force Majeure (Local issues etc)

GF - Internal / External Grid fault

GS - Internal / External Grid shut down.

CS - Customer Scope (WEC Down due to nonpayment of O&M Fee, or any issue related to contract or customer site)

LR - Load Restriction (Load Restriction from State Electricity board)

e.g.

PM - PLLL-01 - 6 Hrs (09:00 AM to 03:00 PM) - Electrical Maintenance.

STS - JAL-07 - 24 Hrs - 06:00 PM(15/02/2011) to 06:00PM (16/02/2011) - 11th Year Overhaul.

BD - GPMG-05 - 24 Hrs - 00:00 PM(16/02/2011) to 23:59PM (17/02/2011) - Protection Circuit Board Trip,Slip Ring Body Failure - Generator winding.

FM - GPMV-08 - 24 Hrs - 00:00 PM(16/02/2011) to 23:59PM (17/02/2011) - unable to attend due to Local Problem, which comes under Force Majeure.

GF - JAL-01 to JAL-18 - 06.30 Hrs - (09:00 to 15:30) - Internal / External Grid fault due to Pin insulator punctured.

GS - JAL-01 to JAL-18 - 06.30 Hrs - (15:30 to 22:00) - Internal / External Grid S/d for External Electric Maintenance.

LR- JAL-01 to 18 – 5 Hrs-(09:00 to 14:00) – Load restriction from State Electricity board.