



Shri Shivaji Education Society Amravati's
Shri Shivaji Science and Arts College, Chikhli.
Dist. Buldana. -443201

Reaccredited by NAAC with B++ grade (CGPA 2.82)
ISO:9001-2015



3rd Cycle

Assessment & Accreditation by NAAC

CRITERION-III

Research, Innovations and Extension

QIm- 3.5 Collaboration

3.5.1. Number of MoUs, collaborations / linkages for Faculty exchange, Student exchange, internship, field trip, on-the-job training, research and other academic activities during the last five years



Shri Shivaji Education Society, Amravati's

SHRI SHIVAJI SCIENCE & ARTS COLLEGE
CHIKHLI DIST. BULDANA



Shri Harshawardhan P. Deshmukh
President
Shri Shivaji Education Society, Amravati

www.shivajichk.ac.in email : shivajichk@rediff.com ☎ (07264) 242088

Re-accredited by NAAC with B++ Grade [CGPA - 2.82]

Dr. Omraj S. Deshmukh
Principal
M.Sc., Ph.D.

Ref.No. *SSSAC/IQAC/2022* .

Date: 31/8/2022

Self Declaration

This is to certify that, the information, reports, true copies of the supporting documents, numerical data, and weblinks furnished in this file are verified by IQAC and the head of the institution and found correct.

Hence this certificate is issued.

V. U. Pochhi

Dr. V. U. Pochhi

Coordinator

**IQAC, Shri Shivaji Sci. & Arts
College, Chikhli Dist. Buldana**



Dr. Omraj S. Deshmukh

Dr. Omraj S. Deshmukh

PRINCIPAL

**Shri Shivaji Science & Arts
College, Chikhli, Dist. Buldana**



MEMORANDUM OF UNDERSTANDING

Between

**Department of Physics , Shri Shivaji Science and Arts College, Chikhli,
Dist-Buldana, Pincode- 443201 (M.S.)**

T/M: 07264 – 242088 | E-mail:shivajichk@rediff.com | W: www.shivajichk.com

And

Vedant Energy Solutions LLP

I-2, Udyogpushpa Apartments, Plot No. 230, Ulkanagari, Aurangabad-431005 (M.S)

T/M: +91 7774 037 481| E: sales@vedantenergysolutions.com | W: www.vedantenergysolutions.com

This Memorandum of Understanding (MoU) is entered into this 06 day of August 2021 by and between **Department of Physics , Shri Shivaji Science and Arts College, Chikhli, Dist-Buldana, Pincode- 443201 (M.S.)**; the college established in 1967, represented by Dr. Omraj S. Deshmukh – Principal; having its campus at Chikhli (hereinafter referred to as “the college”).

And

Vedant Energy Solutions, LLP, A MEDA (Maharashtra Energy Development Agency) Empanelled A Class Energy Audit Company , Provides Services to National and International level for Energy Conservation Audits, Electrical & Thermal Audits, Power Quality Audits and Solutions Etc.

Recitals

- A. **Department of Physics , Shri Shivaji Science and Arts College, Chikhli, Dist-Buldana, Pincode- 443201 (M.S.)**; the college established in 1967, and run by Shri Shivaji Education Society , Amravati, providing education in undergraduate, post graduate and PhD the area of Science , Arts and Commerce. The college also run various career oriented courses.
- B. **Vedant Energy solutions LLP**, provide 100% reliable solutions in Energy Audits, Electrical Safety and Power Quality Audits also deals with issues related to thermal engineering & utility services.
- C. The purpose of this MoU is with reference to exploring the areas of cooperation, benefiting

both the college and the industry (hereinafter collectively referred to as "the parties").

Areas of cooperation

1. To impart training to the students and faculty members of the college by the industry and to the employees of the industry by the college.
2. To facilitate regular interaction between the faculty members & students of the college and the workforce of the industry.
3. The parties shall explore the possibilities of mutual support in their learning, hiring and research requirement based on mutual convenience.
4. The industry may avail library, laboratories, computational facilities, etc at the college.
5. **Confidentiality:** Each party shall maintain complete confidentiality of any information of the other, disclosed during the term of this MoU
6. In no event shall either party be liable for any indirect, incidental, special, consequential damages, including, but not limited to, loss of profit, revenue, data or use, incurred by the other party in connection with, arising out of or under this MoU save for any such loss suffered resulting from any wilful and grossly negligent act or omission of either of the parties.
7. Neither this MoU, nor any activities described herein, shall be construed as creating a partnership, joint venture or other such relationship. Both parties agree that this MoU represents a nonexclusive relationship between the parties and nothing contained herein shall preclude either party from participating/initiating similar relationship with third parties.
8. This MoU may not be amended without the prior written consent of both the parties.
9. **Termination:** Either party can cancel or terminate this Agreement unilaterally (and without reason), by giving an advance written notice of one month to the other.
10. **Indemnity:** Each of the parties shall defend, indemnify and hold the other party harmless from and against any claim, liability, loss, costs or expenses (including reasonable Attorney's fees) arising out of or resulting from the material breach of the provisions herein.

IN WITNESS WHERE OF the parties have set their hands hereto on the day and year first hereinabove written under their respective seal of office.

For Department of Physics , Shri Shivaji Science and Arts College, Chikhli, Dist-Buldana, Pincode-443201 (M.S.);

Dr. Omraj S. Deshmukh

Dr. Omraj S. Deshmukh
Principal
Principal
Shri Shivaji Sci. & Arts
College, Chikhli, Dist. Buldana
Date: 01/07/2021
Place: Chikhli



Witness

1. N. B. Thakare (N. B. Thakare)
2. V. B. Huse (V. B. Huse)

Date:-

Mr. Rahul D. Deshpande

Mr. Rahul D. Deshpande
Director

Date: 01/07/2021
Place: Chikhli



Witness-

1. Swati Bakeshi Swati Bakeshi
2. Sagar Subhash Shejwal Sagar Subhash Shejwal

Date:-



Shri Shivaji Education society, Amravati's

**SHRI SHIVAJI SCIENCE AND ARTS COLLEGE,
CHIKHLI, DIST-BULDANA**

NAAC Reaccredited with 'B++' Grade (CGPA 2.82)

ISO: 9001-2015

Dr. O.S. Deshmukh
Principal

Hon'ble Shri. Harshvardhan P. Deshmukh
President

Department of Physics

Action taken report on Awareness Program on the Energy Audit and Its Importance

Academic year: 2021-2022

Action taken report

Activity: Awareness Program on Energy Audit and Its Importance.

Aim: to aware UG students about process of energy audit.

Notice: Leaflet is attached with this action taken report

Organizer: Dr. O. S. Deshmukh , Principal

IQAC Cordinator: Dr. V. U. Pochhi

NAAC Cordinator: Dr. J.J. Jadhao

Convener: Prof. N. B. Thakare

Organizing Secretary: Dr. Vijay Baburao Huse

Joint Organizing Secretary: Dr. D. N. Bhoyar

Co-convener: Dr. P.P. Padghan and Dr. Pallavi Nalle

Resource Persons: Mr. Rahul Deshpande,

Director, Vedant Energy Solutions, LLP, Aurangabad

Number of participants: 54

Action Taken:

Department of Physics, Shri Shivaji Science College Chikhli, organized online Awareness Program on Energy Audit and Its Importance dated 14/01/2022. Program starts at 11.00 AM with anchoring of Dr. Vijay Huse. First of all the welcome address of Principal Dr. O.S. Deshmukh and in his speech he emphasized on the today's situation of science and technology in renewable energy and energy audit. Mr. N.B. Thakare HOD Physics department introduced the resource person Mr, Rahul Deshpande.

The resource person Mr. Rahul Deshpande emphasized on the energy audit and its importance for building of our nation. An energy audit is an inspection survey and an analysis of energy flows for energy conservation in a building. It may include a process or system to reduce the amount of energy input into the system without negatively affecting the output. In commercial and industrial real estate, an energy audit is the first step in identifying opportunities to reduce energy expense and carbon footprint.

The Government of India set up Bureau of Energy Efficiency (BEE). on 1st March 2002 under the provisions of the Energy Conservation Act, 2001. The mission of the Bureau of

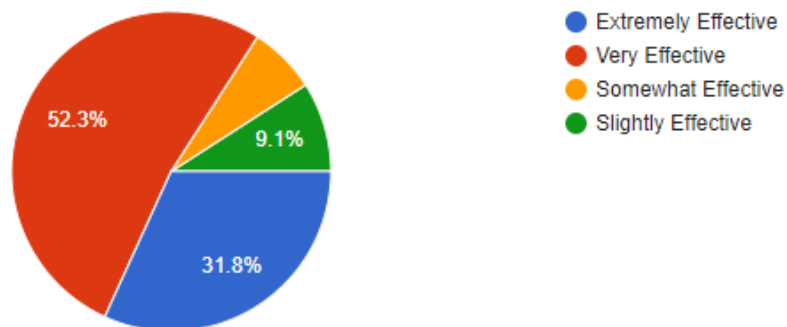
Energy Efficiency is to assist in developing policies and strategies with a thrust on self-regulation and market principles, within the overall framework of the Energy Conservation Act, 2001 with the primary objective of reducing energy intensity of the Indian economy.

After speech the question answer carried out with the help of the Google meet. At last vote of thanks given by Dr. Vijay Huse and with the permission of organizer and committee member the program ends at 1:15 PM.

Feedback: The overall feedback of the participants about webinar the as follows,

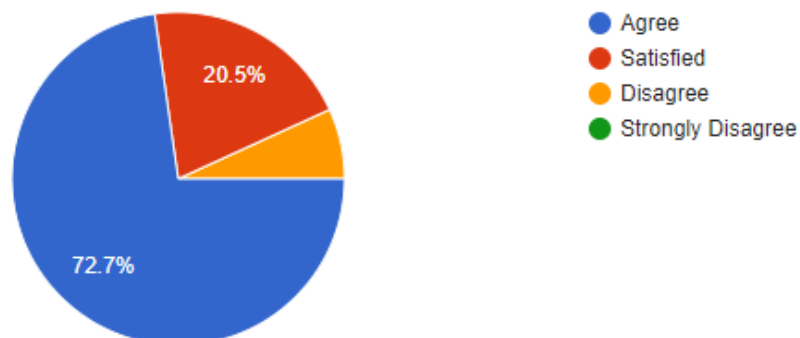
How do you rate the quality of the delivery of the lecture by the resource person?

44 responses



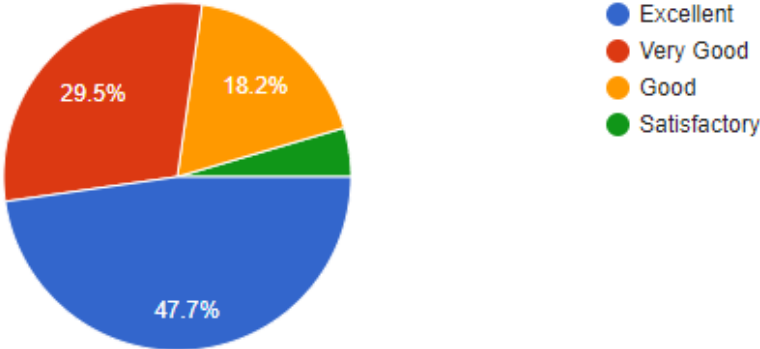
The session delivered the information as I had expected

44 responses



Please rate your overall knowledge level covered before attending the session

44 responses



Mr. N. B. Thakre

Dr. O.S. Deshmukh



Shri Shivaji education Society Amravati's

Shri Shivaji Science and Arts College, Chikhli

Awareness Program on Energy Audit and Its Importance

Organized by

Department of Physics

Shivaji Science and Arts College Chikhli

Date: 14 January 2022

Time : 11:00 AM

Patron



Shri Harshvardhan P. Deshmukh
President
Shri Shivaji Education Society, Amravati

Organizer



Dr. Omraj S. Deshmukh
Principal
Shri Shivaji Science and Arts College, Chikhli

Resource Person

Mr. Rahul Deshpande

Vedant Energy Solutions LLP. Aurangabad

Organizing Committee

Dr. V. U Pochhi
IQAC Cordinator
Dept. of Botany

Dr. J. J. Jadhao
NAAC Cordinator
Dept. of Political Science

Mr. N. B. Thakre
Convener
HOD, Dept. of Physics

Dr. Vijay Huse
Organizing Secretary
Dept. of Physics

Dr. Pallavi Nalle
Co-convener
Dept. of Physics

Dr. D.N. Bhojar
Joint Organizing Secretary
Dept. of Physics

Dr. P. P. Padghan
Co-convener
Dept. of Physics

Google Meet Link: <https://meet.google.com/rxm-mtdn-yvm>

Free Registration Link : <https://forms.gle/APXDdF6j2HUxphgi9>

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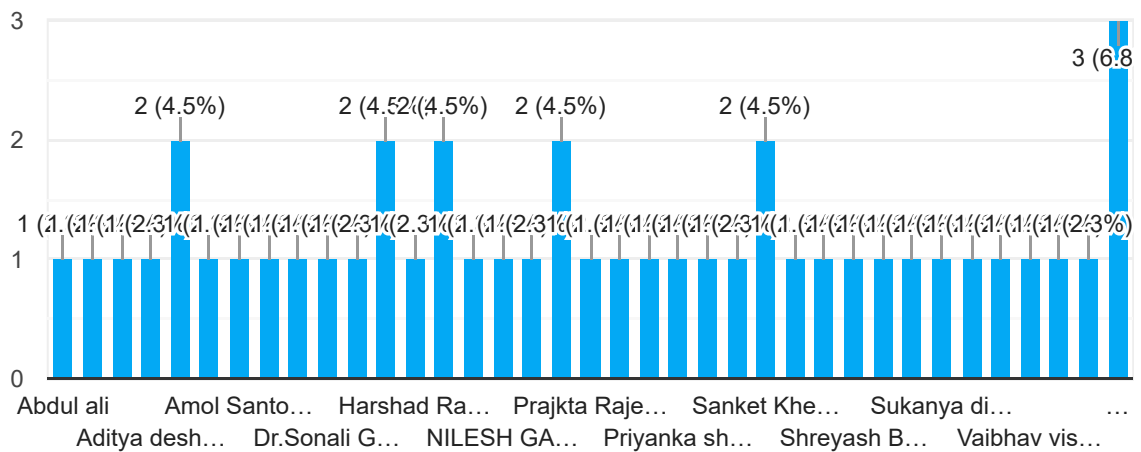
Feedback: Energy Audit and Its Importance

44 responses

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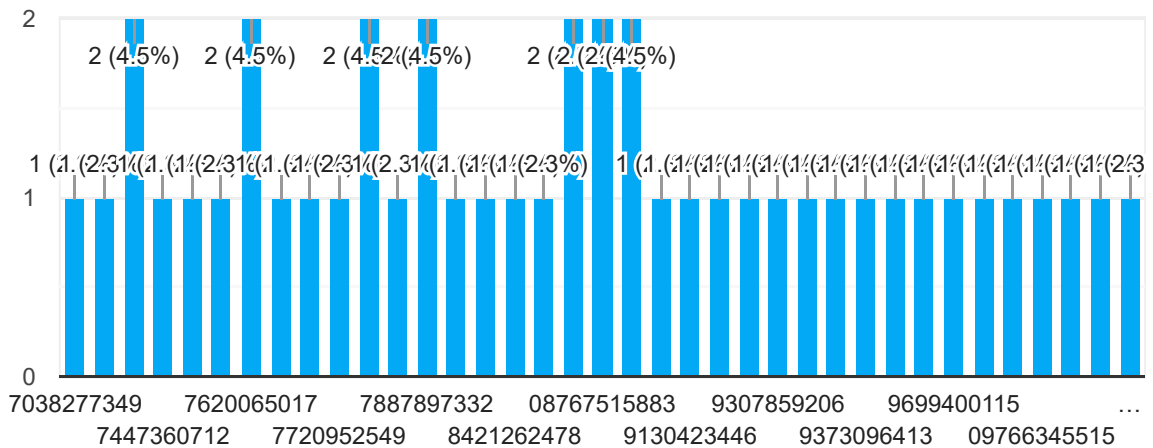
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44 responses



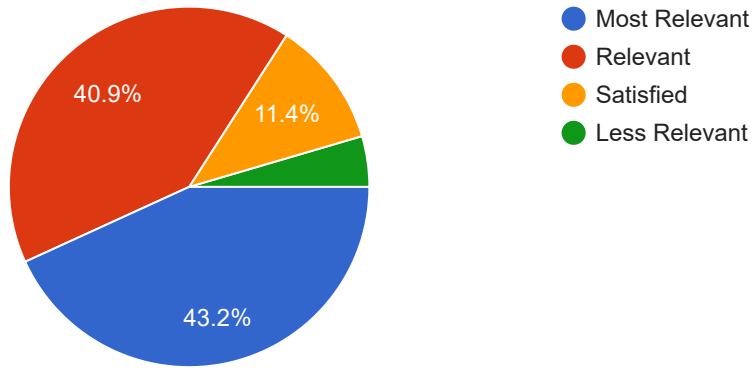
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44 responses



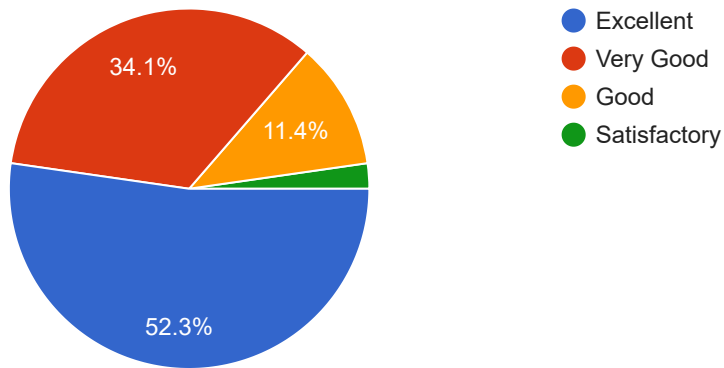
How do you rate the relevancy of the theme of the Lecture?

44 responses



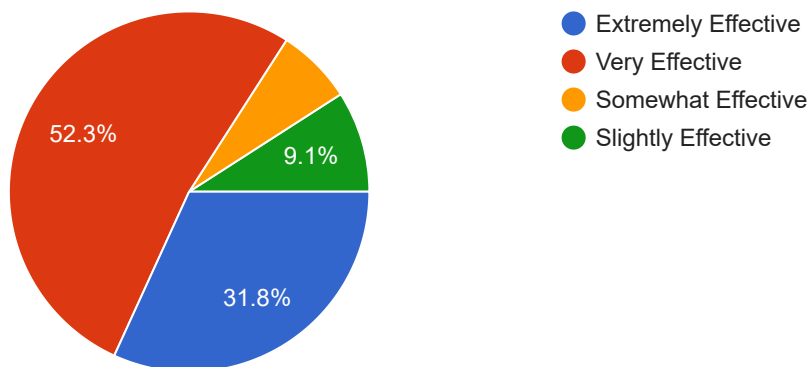
How do you find the content of this awareness program?

44 responses



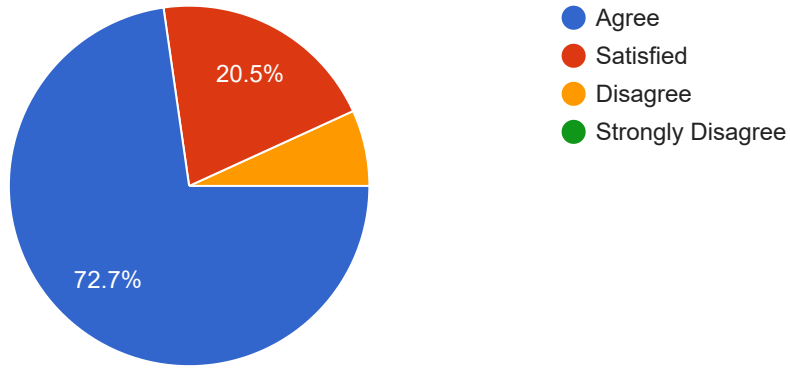
How do you rate the quality of the delivery of the lecture by the resource person?

44 responses



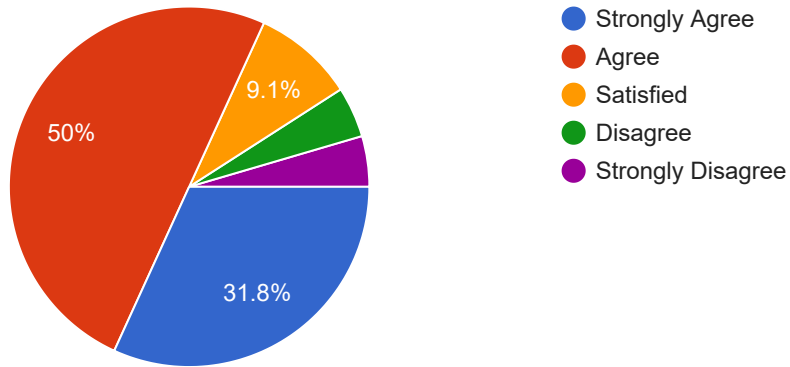
The session delivered the information as I had expected

44 responses



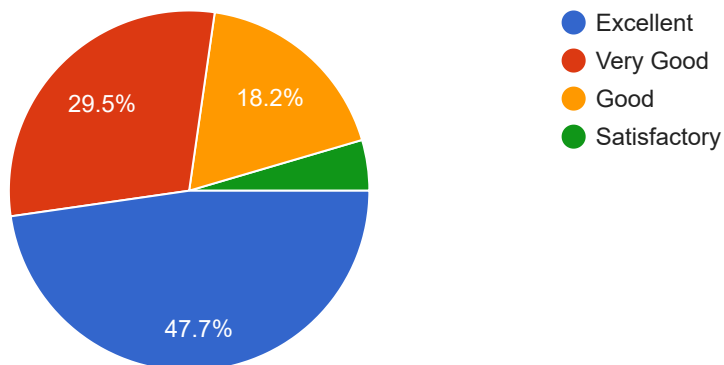
How relevant and helpful do you think it would be for your life?

44 responses



Please rate your overall knowledge level covered before attending the session

44 responses



Give your valuable suggestions/ comments in short

44 responses

Good

No

.

I would greatly appreciate it if you kindly give some feedback on this research data management gut

Best

Good

Excellent

.

8669770886

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Google Forms



Rahul Deshpande is presenting

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POWER DEMAND VS GENERATION

Year	Requirement (MU)	Availability (MU)	Surplus(+)/Deficts(-) (MU)	Surplus(+)/Deficts(-) (%)	Peak Demand (MW)	Peak Met (MW)	Surplus(+)/ Deficts(-) (MW)	Surplus(+)/ Deficts(-) (%)
2014-15	10,68,923	10,30,785	-38,138	-3.6	1,48,166	1,41,160	-7,006	-4.7
2015-16	11,14,408	10,90,850	-23,558	-2.1	1,53,366	1,48,463	-4,903	-3.2
2016-17	11,42,929	11,35,334	-7,595	-0.7	1,59,542	1,56,934	-2,608	-1.6
2017-18	12,13,326	12,04,697	-8,629	-0.7	1,64,066	1,60,752	-3,314	-2.0
2018-19	12,74,595	12,67,526	-7,070	-0.6	1,77,022	1,75,528	-1,494	-0.8
2019-20	12,91,010	12,84,444	-6,566	-0.5	1,83,804	1,82,533	-1,271	-0.7
2020-21	12,75,534	12,70,663	-4,871	-0.4	1,90,198	1,89,395	-802	-0.4
2021-22*	9,20,634	9,16,575	-4,059	-0.4	2,03,014	2,00,539	-2,475	-1.2

Slide 4 of 14

Participant avatars and names:

- Rahul Deshpande (highlighted)
- Kavita Deshm...
- Darshan Wahur...
- Vishal Rajput vR
- omraj deshmukh
- Gajanan sakhr...
- Pratiksha Shinde
- 17 others
- You (video feed)

11:28 AM | wvu-cvpv-gyo

Meeting controls: Mute, Video, Chat, Share, More, End

System tray: Info, Participants (26), Chat, Share, Lock

Rahul Deshpande is presenting

IMPORTANCE OF ENERGY AUDIT.pptx - PowerPoint rahuldeshpandehonovo@gmail.com

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Clipboard

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Font Paragraph

Drawing

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1 PRESENTATION ON IMPORTANCE OF ENERGY AUDIT

2

3

4

5

6

7

Slide 1 of 10 Accessibility: Investigate

Notes Comments

96% 30

Rahul Deshpande

Kavita Deshm...

N Thakare

Vishal Rajput vR

omraj deshmukh

Vaishnavi Duka...

Gajanan sakhre...

10 others

You

11:09 AM | wvu-cvpv-gyo

Microphone Video Chat Screen Share More Call

19

Info Participants Chat Settings Lock

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Slide 9 of 14 Accessibility Investigate

Notes Comments

36%

Energy Management

- The judicious and effective use of energy to maximize profits (minimize costs) and enhance competitive positions" (Cape Hart, Turner and Kennedy, Guide to Energy Management Fairmont press inc. 1997)
- "The strategy of adjusting and optimizing energy, using systems and procedures so as to reduce energy requirements per unit of output while holding constant or reducing total costs of producing the output from these systems"
- To minimise energy costs / waste without affecting production & quality
- To minimise environmental effects

R

Rahul Deshpande

shivganga lokhande

P

Pratiksha Misal

P

Pratiksha Shinde

Dr. Pallavi Nalle

Gayatri Rajput

G

22 others

You

Microphone Video Chat Screen Share More Call

30 Participants Chat Settings Help

Upochhi

Coordinator
IQAC, Shri Shivaji Sci. & Arts
College, Chikhli Dist. Buldana



OS Deshmukh
Principal
Shri Shivaji Sci. & Arts
College, Chikhli, Dist. Buldana