



IEA Energy Efficiency in Emerging Economies

Energy Efficiency Policy Training Week
Programme



11-14 December 2023

India Habitat Centre (IHC)

Lodhi Road Near Airforce Bal Bharati School

Lodhi Road, Lodhi Estate

New Delhi, Delhi, 110003, India

 [#energyefficientworld](https://twitter.com/energyefficientworld)

About the IEA

The International Energy Agency (IEA) works with policy makers and stakeholders to scale up action on energy to mitigate climate change, improve energy security and grow economies while delivering environmental and social benefits.

Energy Efficiency in Emerging Economies (E4) Programme

The IEA has supported governments of major emerging economies in advancing energy efficiency policies and programmes through the Energy Efficiency in Emerging Economies Programme (E4 Programme) since 2014. E4 works closely with six of the largest emerging economies - Brazil, China, India, Indonesia, Mexico and South Africa - as well as within regions, such as Southeast Asia, Latin America and Africa, accelerating energy efficiency.

How we work:

- *Policy development*: we support development of national strategies, targets, policies, regulations and monitoring systems.
- *Research and analysis*: we provide customised research and analysis to support and inform decision making of emerging economy officials responsible for energy efficiency policy.
- *Thematic workshops*: we bring together officials and experts from a range of countries to explore key topics and generate practical, locally-applicable solutions.
- *Capacity building*: we provide training for officials and future leaders, primarily through the E4 Training Weeks and a series of online, self-paced courses.

The first phase of the E4 Programme (2014 to 2017) was made possible thanks to the generous contributions of the Government of Denmark and the European Commission.

The second phase of the programme (commenced in 2018), is part of the IEA Clean Energy Transitions Programme (CETP), which aims to collaborate with partner country governments on all aspects of their clean energy transitions with support from a range of donors including Canada, Denmark, the European Commission, Germany, Italy, Japan, Sweden, Switzerland, and the United Kingdom.

Plenary Session: Energy Efficiency Cross-Sectoral Themes

VENUE: SILVER OAK - INDIA HABITAT CENTRE (IHC) – NEW DELHI, DELHI 110003, INDIA

9:00 – 10:00

Participant Registration - Welcome Coffee and Tea

10:00 - 10:05

LAMP LIGHTING CEREMONY

10:05-10:25

OPENING SEGMENT

Opening Remarks: Ms. Melanie Slade, Senior Programme Manager E4, International Energy Agency

Welcome Remark: Shri Arijit Sengupta, Director, Bureau of Energy Efficiency, Government of India

Special Address: Shri Vishal Kapoor, CEO, Energy Efficiency Services Limited

Keynote Address: Shri Abhay Bakre, Director General, Bureau of Energy Efficiency, Government of India

Inaugural Address: Shri Pankaj Agarwal, Secretary, Ministry of Power, Government of India

10:25 – 11:00

PANEL: ROLE OF ENERGY EFFICIENCY IN DECARBONISATION

Moderator: Ms. Melanie Slade, Senior Programme Manager E4, International Energy Agency

Panellists:

Ms. Libby Green, Climate and Energy Lead, British High Commission

Ms. Christine Egan, Executive Director and CEO, CLASP

Ms. Reena Suri, Executive Director, India Smart Grid Forum

*Mr. Satish Kumar, Executive Director, Alliance for an Energy Efficient Economy
Representative of the Government of Denmark*

11:00-11:30

GROUP PHOTO

11:30 – 12:00

INDIA'S ENERGY EFFICIENCY POLICY LANDSCAPE

Shri Arijit Sengupta, Director, Bureau of Energy Efficiency, Government of India

12:00 – 12:30

INTRODUCTION TO POLICY PACKAGES AND THE WEEK AHEAD

Cornelia Schenk, Energy Efficiency Policy Analyst, International Energy Agency

13:00 – 14:00

Lunch

Energy Efficiency in Buildings

VENUE: SILVER OAK 2 - INDIA HABITAT CENTRE (IHC) – NEW DELHI, DELHI 110003, INDIA

LEAD: KSENIA PETRICHENKO AND IAN HAMILTON

14:00 – 14:30

INTRODUCTORY GAME

Speakers: Ksenia Petrchenko & Ian Hamilton

14:30 – 15:30

1. WHERE TO START: ENERGY USE IN BUILDINGS

Speakers: Ksenia Petrchenko & Ian Hamilton

15:30 – 16:00

Coffee and Tea Break

16:00 – 17:00

2. WHERE TO START: ENERGY EFFICIENCY POTENTIAL IN BUILDINGS FOR NET-ZERO

Speakers: Ksenia Petrchenko & Ian Hamilton

17:00 – 18:00

3. TOOLKIT: ENERGY EFFICIENT BUILDING DESIGN

Speaker: Ian Hamilton

18:00 – 21:00

Social activities followed by reception

Energy Efficiency in Buildings

VENUE: SILVER OAK 2 - INDIA HABITAT CENTRE (IHC) – NEW DELHI, DELHI 110003, INDIA

LEAD: KSENIA PETRICHENKO AND IAN HAMILTON

9:30 – 10:00	POEM COMPETITION, REVIEW, QUESTIONS
10:00 – 11:00	4. TOOLKIT: ENERGY EFFICIENT BUILDING TECHNOLOGIES <i>Speaker: Ian Hamilton</i>
11:00 – 11:30	Coffee and Tea Break
11:30 – 12:00	TECHNOLOGIES GAME
12:30 – 13:00	5. TOOLKIT: ENERGY EFFICIENCY POLICY PACKAGE <i>Speaker: Ksenia Petrichenko</i>
13:00 – 14:00	Lunch
14:00 – 15:45	5. TOOLKIT: ENERGY EFFICIENCY POLICY PACKAGE (CONT) <i>Speaker: Ksenia Petrichenko</i>
14:45 – 15:30	6. SPECIAL SESSION: IMPLEMENTATION ON BUILDINGS CODES <i>Guest Speaker: Pavankumar Parnandi, ASCI</i>
15:30 – 16:00	Coffee and Tea Break
16:00 – 16:30	7. TOOLKIT: EFFICIENT GRID-INTERACTIVE BUILDINGS <i>Speaker: Ksenia Petrichenko</i>
16:30 – 17:30	8. SPECIAL SESSIONS: DEEP DIVE ON DIGITALISATION IN BUILDINGS <i>Guest Speaker: Gurmeet Singh, Environmental Design Solutions Pvt. Ltd</i> <i>Guest Speaker: Arjun Gupta, Abhishek Chauhan, Smart Joules</i>
17:30 – 18:00	ACTIVITY AND WRAP-UP OF THE DAY

Energy Efficiency in Buildings

VENUE: SILVER OAK 2 - INDIA HABITAT CENTRE (IHC) – NEW DELHI, DELHI 110003, INDIA

LEAD: KSENIA PETRICHENKO AND IAN HAMILTON

9:30 – 10:30 **9. MAKING IT HAPPEN: ENABLING INVESTMENT WITH ENERGY EFFICIENCY POLICIES**
Speaker: Ian Hamilton

10:30 – 11:00 **10. SPECIAL SESSIONS: FINANCING ENERGY EFFICIENCY IN BUILDINGS**
Guest speaker: Somesh Kumar, Ernst & Young LLP

11:00 – 11:30 Coffee and Tea Break

11:30 – 12:20 **11. DID IT WORK? EVALUATION AND ENERGY EFFICIENCY INDICATORS**
Speaker: Ian Hamilton

12:20 – 13:00 **12. SPECIAL SESSION: ENERGY EFFICIENCY BENCHMARKING**
Guest Speakers: Satish Kumar, Akash Goenka, AEEE

13:00 – 14:00 Lunch

14:00 – 14:30 **13. THE MULTIPLE BENEFITS OF ENERGY EFFICIENCY IN BUILDINGS**
Speaker: Ian Hamilton

14:30 – 15:30 **14. MAKING IT HAPPEN: NET-ZERO ROADMAP CREATION**
Speaker: Ian Hamilton & Ksenia Petrichenko

15:30 – 16:00 Coffee and Tea Break

16:00 – 16:30 **15. SPECIAL SESSION: DEEP DIVE ON ENERGY EFFICIENT BUILDINGS (TBC)**
Guest Speaker: Kanagaraj Ganesan

16:30 – 17:00 **16. INTRODUCTION TO MINISTER'S GAME**

17:00 – 18:00 **17. MINISTER'S GAME**

Energy Efficiency of Appliances and Equipment

VENUE: MARIGOLD HALL - INDIA HABITAT CENTRE (IHC) – NEW DELHI, DELHI 110003, INDIA

LEAD: CLARA CAMARASA AND MELANIE SLADE

14:00 – 14:30

INTRODUCTORY ROUNDTABLE

14:30 – 15:30

1. WHERE TO START: THE ROLE OF APPLIANCES IN THE ROAD TO NET ZERO

Melanie Slade, International Energy Agency

15:30 – 16:00

Coffee and Tea Break

16:00 – 17:00

2. TOOLKIT: APPLIANCE ENERGY EFFICIENCY POLICY OPTIONS

Clara Camarasa, International Energy Agency

17:00 – 17:45

3. MAKING IT HAPPEN: ASSESSING CURRENT PERFORMANCE AND SETTING MEPS

Clara Camarasa, International Energy Agency

Guest Speaker: State level policy maker experience

17:45 – 18:00

GAME & GROUP EXERCISE (INTRODUCE EXERCISE AND GROUPS)

18:00 - 21:00

Social activities followed by reception

Energy Efficiency of Appliances and Equipment

VENUE: MARIGOLD HALL - INDIA HABITAT CENTRE (IHC) – NEW DELHI, DELHI 110003, INDIA

LEAD: CLARA CAMARASA AND MELANIE SLADE

9:30 – 10:00 REVIEW: EXERCISE AND LEARNINGS FROM DAY 1

10:00 – 11:00 **4. MAKING IT HAPPEN: INSIGHTS INTO ENERGY LABELS**
Clara Camarasa and Melanie Slade, International Energy Agency
Guest Speaker: H. Wadhwa, VOICE Consumer Body India

11:00 – 11:30 Coffee and Tea Break

11:30 – 13:00 **5. MAKING IT HAPPEN: UNDERSTANDING THE MARKET: DATA NEEDS AND DATA-COLLECTION METHODS**
Clara Camarasa, International Energy Agency
Guest Speaker: Tarun Garg RMI India Foundation

13:00 – 14:00 Lunch

14:00 – 15:30 **6. MAKING IT HAPPEN: INDUSTRY TRANSFORMATION AND INCENTIVES**
Melanie Slade, International Energy Agency
Guest Speaker: Abhishek Gupta EESL

15:30 – 16:00 Coffee and Tea Break

16:00 – 17:00 **7. PANEL: STAKEHOLDER INVOLVEMENT AND COMMUNICATION**
Panel: Abhishek Gupta (EESL), Ms Samal (BEE), Tarun Garg (RMI India Foundation), Neha Dhingra (CLASP India), State level government, H. Wadhwa, (VOICE Consumer Body India)
Moderator: Melanie Slade.

17:00 – 18:00 GROUP EXERCISE

Energy Efficiency of Appliances and Equipment

VENUE: MARIGOLD HALL - INDIA HABITAT CENTRE (IHC) – NEW DELHI, DELHI 110003, INDIA

LEAD: CLARA CAMARASA AND MELANIE SLADE

9:30 – 10:00 REVIEW: EXERCISE AND LEARNINGS FROM DAY 2

10:00 – 11:00

8. MAKING IT HAPPEN: INTRODUCTION TO COMPLIANCE

Melanie Slade, International Energy Agency

Guest Speaker: Kishore Kumar, CLASP

11:00 – 12:00

Coffee and Tea Break

12:00 – 13:00

9. TOOLKIT: MODERNISING APPLIANCE ENERGY EFFICIENCY

Melanie Slade, International Energy Agency

13:00 – 14:00

Lunch

14:00 – 15:00

10. DID IT WORK? MONITORING AND EVALUATING POLICIES AND PROGRAMMES

Charles Michaelis, Strategy Development Solutions

15:00 – 15:30

GROUP EXERCISE

15:30 – 16:00

Coffee and Tea Break

16:00 – 17:30

GROUP EXERCISE AND PRESENTATIONS

Clara Camarasa and Melanie Slade, International Energy Agency

17:30 – 18:00

12. WHAT'S NEXT?

Clara Camarasa and Melanie Slade, International Energy Agency

Energy Efficiency in Industry

VENUE: SILVER OAK 1 - INDIA HABITAT CENTRE (IHC) – NEW DELHI, DELHI 110003, INDIA

LEAD: CORNELIA SCHENK AND PATRICK CRITTENDEN

14:00 – 14:30

INTRODUCTORY ROUNDTABLE

14:30 – 15:30

1. WHERE TO START: MAKING THE CASE FOR INDUSTRIAL ENERGY EFFICIENCY POLICY

Patrick Crittenden

Guest Speaker: Mr. Ashok Kumar, Bureau of Energy Efficiency

15:30 – 16:00

Coffee and Tea Break

16:00 – 17:00

2. WHERE TO START: MAKING THE CASE FOR INDUSTRIAL ENERGY EFFICIENCY POLICY (CONT.)

Patrick Crittenden

Guest Speaker: Mr. Bhaskar Natarajan, Alliance for an Energy Efficient Economy

17:00 - 18:00

3. OVERVIEW OF ENERGY EFFICIENCY POLICY PACKAGES

Patrick Crittenden and Cornelia Schenk

18:00-21:00

Social activities followed by reception

Energy Efficiency in Industry

VENUE: SILVER OAK 1 - INDIA HABITAT CENTRE (IHC) – NEW DELHI, DELHI 110003, INDIA

LEAD: CORNELIA SCHENK AND PATRICK CRITTENDEN

9:30 - 10:00 REVIEW: WHAT WE LEARNED YESTERDAY AND QUESTIONS

10:00 – 11:00 **4. ENERGY EFFICIENCY POLICY PACKAGES: REGULATION**
Patrick Crittenden and Cornelia Schenk
Guest speaker: Mr. Gandla Sreenivasulu, Andhra Pradesh State Energy Conservation Mission

11:00 - 11:30 Coffee and Tea Break

11:30 – 13:00 **5. ENERGY EFFICIENCY POLICY PACKAGES: INFORMATION**
Patrick Crittenden and Cornelia Schenk

13:00 – 14:00 Lunch

14:00 – 15:30 **6. ENERGY EFFICIENCY POLICY PACKAGES: APPROACHES TO ENERGY MANAGEMENT SYSTEMS**
Patrick Crittenden and Cornelia Schenk

15:30 – 16:00 Coffee and Tea Break

16:00 – 17:00 **7. UNDERSTANDING AND CONSULTING WITH STAKEHOLDERS**
Patrick Crittenden and Cornelia Schenk

17:00 – 18:00 **8. ENERGY EFFICIENCY POLICY PACKAGE: ENABLING INVESTMENT THROUGH INCENTIVES**
Patrick Crittenden and Cornelia Schenk

Energy Efficiency in Industry

VENUE: SILVER OAK 1 - INDIA HABITAT CENTRE (IHC) – NEW DELHI, DELHI 110003, INDIA

LEAD: CORNELIA SCHENK AND PATRICK CRITTENDEN

9:30 – 10:00 REVIEW: WHAT WE LEARNED YESTERDAY AND QUESTIONS

10:00 – 11:00 **9. SEIZING THE OPPORTUNITIES OF ELECTRIFICATION IN INDUSTRY**
Patrick Crittenden and Cornelia Schenk

11:00 – 11:30 Coffee and Tea Break

11:30 – 13:00 **10. LEVERAGING DIGITAL TECHNOLOGIES**
Patrick Crittenden and Cornelia Schenk
Guest Speaker: Confederation of Indian Industry (TBC)

13:00 – 14:00 Lunch

14:00 – 15:30 **11. WHAT ARE THE STEPS? POLICY PACKAGE DESIGN EXERCISE**
Patrick Crittenden and Cornelia Schenk

15:30 – 16:00 Coffee and Tea Break

16:00 – 17:00 **12. DID IT WORK? INDICATORS, EVALUATION AND SCALING UP PROGRAMMES**
Patrick Crittenden and Cornelia Schenk

17:00 – 18:00 **13. REVIEW: ROUNDTABLE DISCUSSION ON APPLICATION CHALLENGES AND THE DEVELOPMENT OF ACTION PLANS**
Patrick Crittenden and Cornelia Schenk

Energy Efficiency Transport

VENUE: MAPLE HALL - INDIA HABITAT CENTRE (IHC) – NEW DELHI, DELHI 110003, INDIA

LEAD: ALISON PRIDMORE AND IAN SKINNER

14:00–14:45

INTRODUCTORY ROUNDTABLE
Alison Pridmore and Ian Skinner

14:45–15:30

1. WHERE TO START: ENERGY USE IN TRANSPORT
Alison Pridmore

15:30–16:00

Coffee and Tea Break

16:00–16:30

2. TOOLKIT: VEHICLE ENERGY EFFICIENCY POLICY PACKAGE
Alison Pridmore

16:30–17:30

3. MAKING IT HAPPEN: THE ROLE OF REGULATION AND FRAMEWORKS
Ian Skinner
Guest speaker: Mr Venkata Srinivas EESL, National Electric Bus Programme and E-bus challenge

17:30–18:00

GROUP EXERCISE

18:00–21:00

Social activities followed by reception

Energy Efficiency in Transport,

VENUE: MAPLE HALL - INDIA HABITAT CENTRE (IHC) – NEW DELHI, DELHI 110003, INDIA

LEAD: ALISON PRIDMORE AND IAN SKINNER

9:30–10:00 REVIEW: WHAT WE LEARNED YESTERDAY AND QUESTIONS

10:00–11:00 **4: MAKING IT HAPPEN: THE ROLE OF ELECTRIFICATION IN DRIVING FORWARD EFFICIENCY**
Alison Pridmore

11:00–11.30 Coffee and tea break

11:30–13:00 **5: TOOLKIT: THE ROLE OF STATE LEVEL ACTION**
Alison Pridmore
Guest speaker: TBC – State EV Policy

13:00–14:00 Lunch

14:00–15:30 **6. MAKING IT HAPPEN: THE ROLE OF BIOFUELS AND HYDROGEN**
Ian Skinner
Guest Speaker: Mr DMR Panda, NTPC Hydrogen

15:30–16:00 Coffee and tea break

16:00–16:45 **7. MAKING IT HAPPEN: INFORMATION**

16:45–18:00 GROUP EXERCISE

Energy Efficiency in Transport

VENUE: MAPLE HALL - INDIA HABITAT CENTRE (IHC) – NEW DELHI, DELHI 110003, INDIA

LEAD: ALISON PRIDMORE AND IAN SKINNER

9:30–10:00 REVIEW: WHAT WE SAW AND LEARNED YESTERDAY AND QUESTIONS

10:00–11:00 **8. MAKING IT HAPPEN: INCENTIVES**
Alison Pridmore
Guest Speaker: Sunitha Anup, ICCT (International Council on Clean Transportation), Non-Fiscal Incentives

11:00–11:30 Coffee and Tea Break

11:30–13:00 **GROUP EXERCISE**
Alison Pridmore

13:00–14:00 Lunch

14:00–15:30 **9. TOOLKIT: FINANCING VEHICLE EFFICIENCY**
Alison Pridmore
Guest Speaker: Mr Rajiv Kumar, SIDBI (Small Industries Development Bank of India), EVOLVE

15:30–16:00 Coffee and Tea Break

16:00–17:30 **GROUP EXERCISE**

17:30–18:00 **10. NEXT STEPS**

Energy Efficiency Indicators and Evaluation

VENUE: MAGNOLIA HALL - INDIA HABITAT CENTRE (IHC) – NEW DELHI, DELHI 110003, INDIA

LEAD: MAFALDA SILVA AND CHARLES MICHAELIS

14:00 - 14.30

INTRODUCTORY ROUNDTABLE

14:30 - 15:00

1. WHERE TO START: INTRODUCTION TO KEY MONITORING AND EVALUATION CONCEPTS

15.00-15.30

2. TOOLKIT: ENERGY BALANCES AS A FIRST TOOL FOR INFORMING POLICIES

15:30 – 16:00

Coffee and Tea Break

16.00-16.30

3. CASE STUDY: MINISTRY OF STATISTICS AND PROGRAMME IMPLEMENTATION

16.30-17.00

4. TOOLKIT: THE ROLE OF ENERGY EFFICIENCY INDICATORS

17.00-18.00

5. USING INDICATORS AND EVALUATION IN POLICYMAKING

DISCUSSION

6. CASE STUDY: INTRODUCTION TO STREAM

18:00-21:00

Social activities followed by reception

Energy Efficiency Indicators and Evaluation

VENUE: MAGNOLIA HALL - INDIA HABITAT CENTRE (IHC) – NEW DELHI, DELHI 110003, INDIA

LEAD: MAFALDA SILVA AND CHARLES MICHAELIS

9:30 – 10:00 REVIEW: WHAT WE LEARNED YESTERDAY AND QUESTIONS

10:00 – 11:00 7. INTRODUCTION TO THEORIES OF CHANGE
ACTIVITY: DEVELOP THEORY OF CHANGE FOR ENERGY EFFICIENCY ACTION PLAN

11:00 -11.30 Coffee and Tea Break

11:30-12:30 8. GROUPS FINALISE AND PRESENT THEORIES OF CHANGE

12:30-13:00 9. TOOLKIT: MULTIPLE IMPACTS OF ENERGY EFFICIENCY

13:00 – 14:00 Lunch

14.00-14.30 10. CASE STUDY: STATE ENERGY EFFICIENCY INDEX

14.30-15.00 11. TOOLKIT: POLICY AND PROGRAMME INDICATORS

15.00-15.30 12. ACTIVITY: IDENTIFY INDICATORS FOR CASE STUDY

15:30 – 16:00 Coffee and Tea Break

16.00-17.30 13. ACTIVITY: FINALISE AND REPORT BACK FROM BREAKOUT GROUPS

17.30-18.00 14. CASE STUDY: KREDL

Energy Efficiency Indicators and Evaluation

VENUE: MAGNOLIA HALL - INDIA HABITAT CENTRE (IHC) – NEW DELHI, DELHI 110003, INDIA

LEAD: MAFALDA SILVA AND CHARLES MICHAELIS

9:30 – 10:00 REVIEW: WHAT WE LEARNED YESTERDAY AND QUESTIONS

10.00-10.45 15. WHAT ARE THE STEPS: HOW TO TELL IF YOUR POLICY MADE A DIFFERENCE

10.45-11.00 16. GENDER EQUALITY AND SOCIAL INCLUSION

11:00 -11.30 Coffee and Tea Break

11.30-12.30 17. WHAT ARE THE STEPS: DEVELOPING EVALUATION QUESTIONS

12.30-13.00 CASE STUDY: IMPACT ASSESSMENT OF ENERGY EFFICIENCY PROGRAMMES AND POLICIES
MR ARIJIT SENGUPTA, DIRECTOR, BUREAU OF ENERGY EFFICIENCY

13:00 – 14:00 Lunch

14.00-15.00 18. ACTIVITY: DEVELOPING A MONITORING, EVALUATION AND LEARNING (MEL) FRAMEWORK

15.00-15.30 19. ACTIVITY: GROUP REPORTING OF MEL FRAMEWORKS.

15:30 – 16:00 Coffee and Tea Break

16.00-17.00 20. NEXT STEPS: USING INDICATORS AND EVALUATION

17.00-17.30 21. WHERE TO GET HELP: ADDITIONAL RESOURCES IN MONITORING AND EVALUATION

17.30-18.00 FEEDBACK ON COURSE AND CLOSE

Making More Energy Efficiency Happen

VENUE: SILVER OAK - INDIA HABITAT CENTRE (IHC) – NEW DELHI, DELHI 110003, INDIA

9:30 - SECTOR STREAMS REPORT BACK ON KEY LESSONS

COMMUNICATION STRATEGIES TO SUPPORT ENERGY EFFICIENCY GOALS

11:00 - Coffee and Tea Break

GROUP PROJECT

13:00 – 14:00 Lunch

GROUP PROJECT

PRESENTATION OF GROUP PROJECTS

CLOSING REMARKS & AWARDS

CERTIFICATES AND CONCLUSION

15:30 – 16:00 Coffee and Tea Networking

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