IEA Workshop on industry energy efficiency

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Perform, Achieve and Trade (PAT) Scheme

- Regulatory instrument linked with market mechanism
  - Certification of energy saving
- Consultative approach
  - Ministries/Designated Consumers (DCs)/Associations/FIs/Research Organizations
- Outreach/ Capacity Development
  - Workshops/Seminars/ Visits
- “Self – competing”
  - Unit specific targets
- Relative responsibility
  - Less target for more efficient and more for less efficient
PAT Trading Mechanism

SEC (Specific Energy Consumption): Energy Consumed per unit production

- **Complied**
  - Base SEC
  - Target SEC
  - Achieved SEC

- **Trading Exchange**
  - I
  - II
  - III
  - IV

- **ESCerts**
  - Issued
  - Purchased

- **Penalty Imposed**
  - Non Compliance

**PAT-1**
- Around 1.3 million ESCerts were traded
- Transaction of about $15 million
PAT Scheme - Achievements

**PAT-1 (2012-15)**
- 8 Sector/ 478 DCs
- 8.67 MTOE energy savings
- 31 million tonnes CO2 emission reduction

**PAT-2 (2016-19)**
- 11 Sectors/ 621 DCs
- ~14 MTOE energy savings
- ~66 million tonnes CO2 emission reduction
- ~4.5 billion USD of saving

**PAT-3, 4, 5, 6**
- 13 Sectors/ 1073 DCs
- ~302 MTOE of Energy Coverage
- ~50% of India’s total energy consumption

Airports (commercial building), Cement Grinding Units and Railway Workshops: new sub sectors in next PAT Cycle
<table>
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<th>S. No</th>
<th>Sectors</th>
<th>No. of DCs In PAT Cycle II (2016-19)</th>
<th>No. of DCs In PAT Cycle III (2017-20)</th>
<th>No. of DCs in PAT Cycle IV (2018-21)</th>
<th>No. of DCs in PAT Cycle V (2019-22)</th>
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<td><strong>109</strong></td>
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</table>
PAT Scheme- Current Status

• Total 6 cycles of PAT notified till March 2020

• 1073 designated consumers (DCs) from Thirteen sectors covered

• Deepening and Widening of PAT scheme

• Feasibility study of 7 additional sectors conducted

• Threshold notified of airports under buildings sector
PAT Scheme- Way forward

- Further deepening and widening to cover almost entire segment of the energy intensive industries
- Notification of PAT Cycle-7
- Broad basing ESCerts market to make it more attractive and feasible
- Linking ESCerts to global carbon market
- Schedule of the EC Act, 2001 under progress to provide provision to include more sectors
- Expanding the scope of the PAT scheme to the SME segment
Thank You