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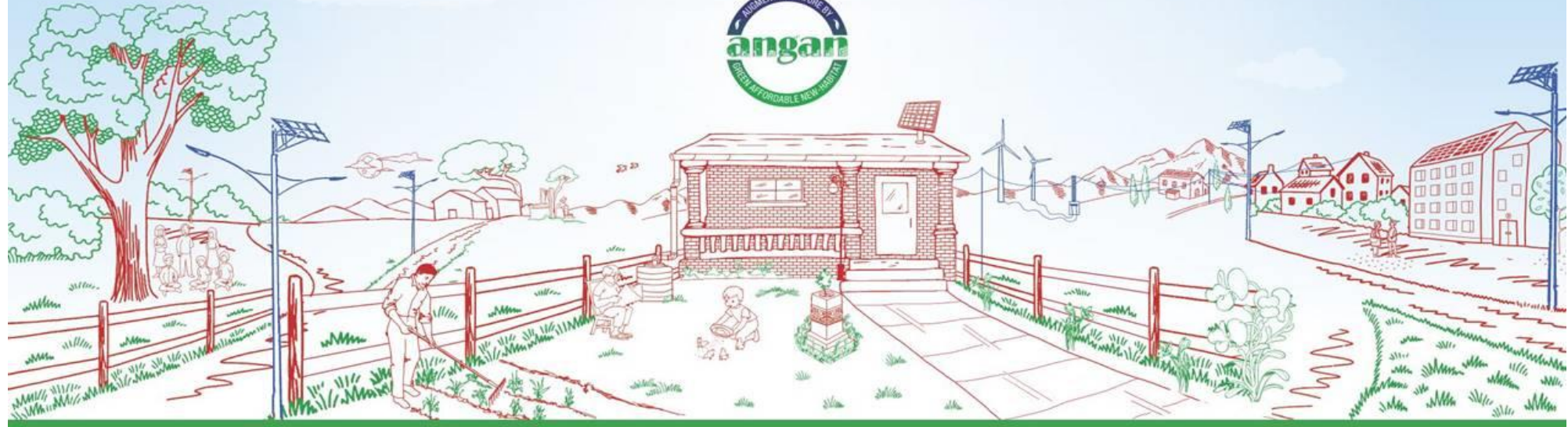
ANGAN

Augmenting Nature by Green Affordable New-habitat

A Courtyard for Revolutionary Change in Building Energy Efficiency

An International Conference on Building Energy Efficiency

9th-11th September, 2019 | Hotel The LaLiT, New Delhi





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THIS PRESENTATION WAS SHARED BY

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FOR THE SESSION:

“ Policy Implementation and Enforcement “

DURING ANGAN 2019

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Bureau of Energy Efficiency

Policy Implementation and Enforcement: *Lessons from ECBC Implementation in Telangana & Andhra Pradesh*

Rajkiran Bilolikar, Administrative Staff College of India

ANGAN: Augmenting Nature by Green Affordable New Habitat
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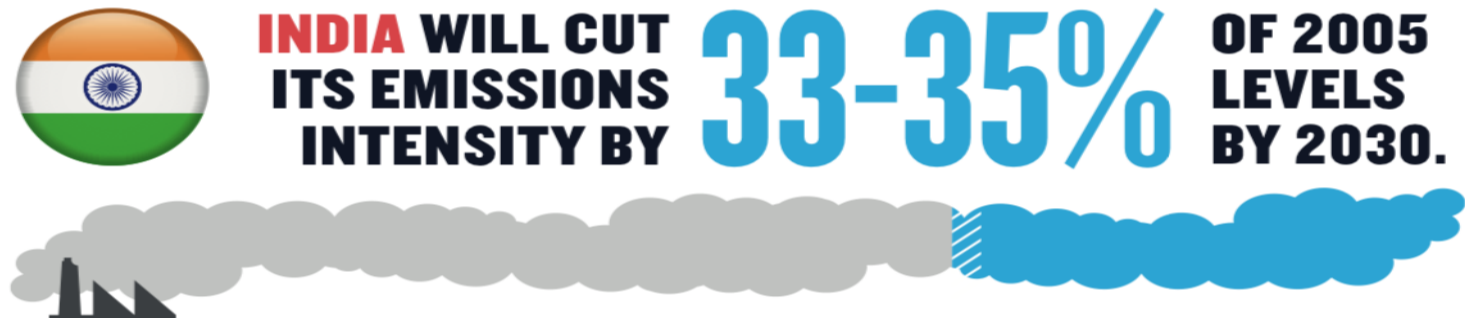


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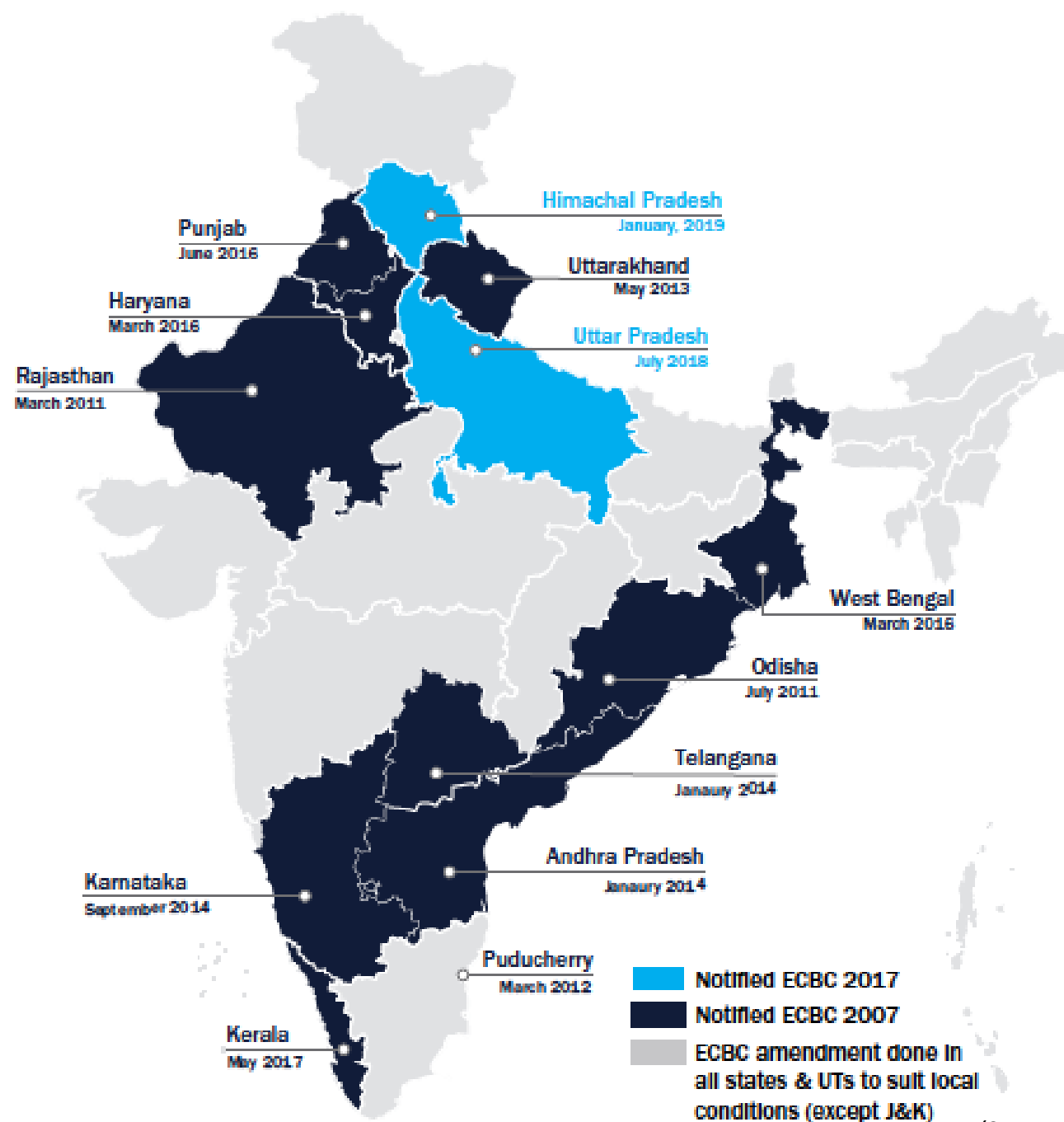
ECBC and Implementing the INDC

- Efficiency Codes in India are structured to encourage states to achieve more than minimum energy efficiency standards
- Implementing a range of energy efficiency policies robustly can reduce total Indian energy use by 22% and electricity consumption by 40% in 2050 compared to the BAU scenario¹
- These policies could reduce India's CO₂ emissions by 9% or 700 Mt
- Building energy efficiency policies could lead to a 29% reduction in emissions intensity per unit of GDP below 2005 levels by 2030 (26% reduction in BAU), compared to the 33%–35% reduction goal set in India's NDC



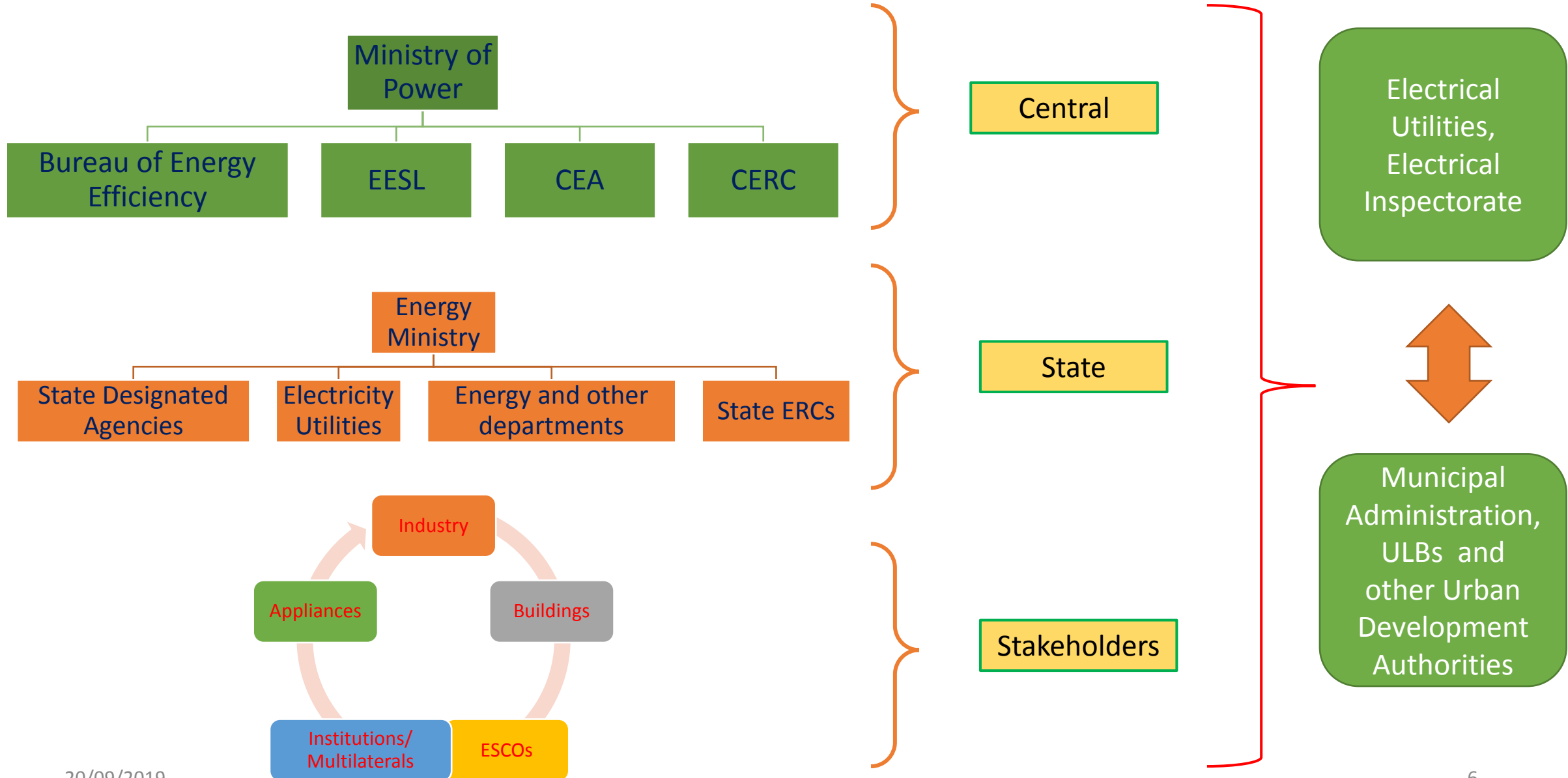
(Source: Sha Yu, Implementing NDCs: building EE policies in India's Mitigation Strategy, Environmental Research Letters, 2018)

Status of ECBC Notification Across States

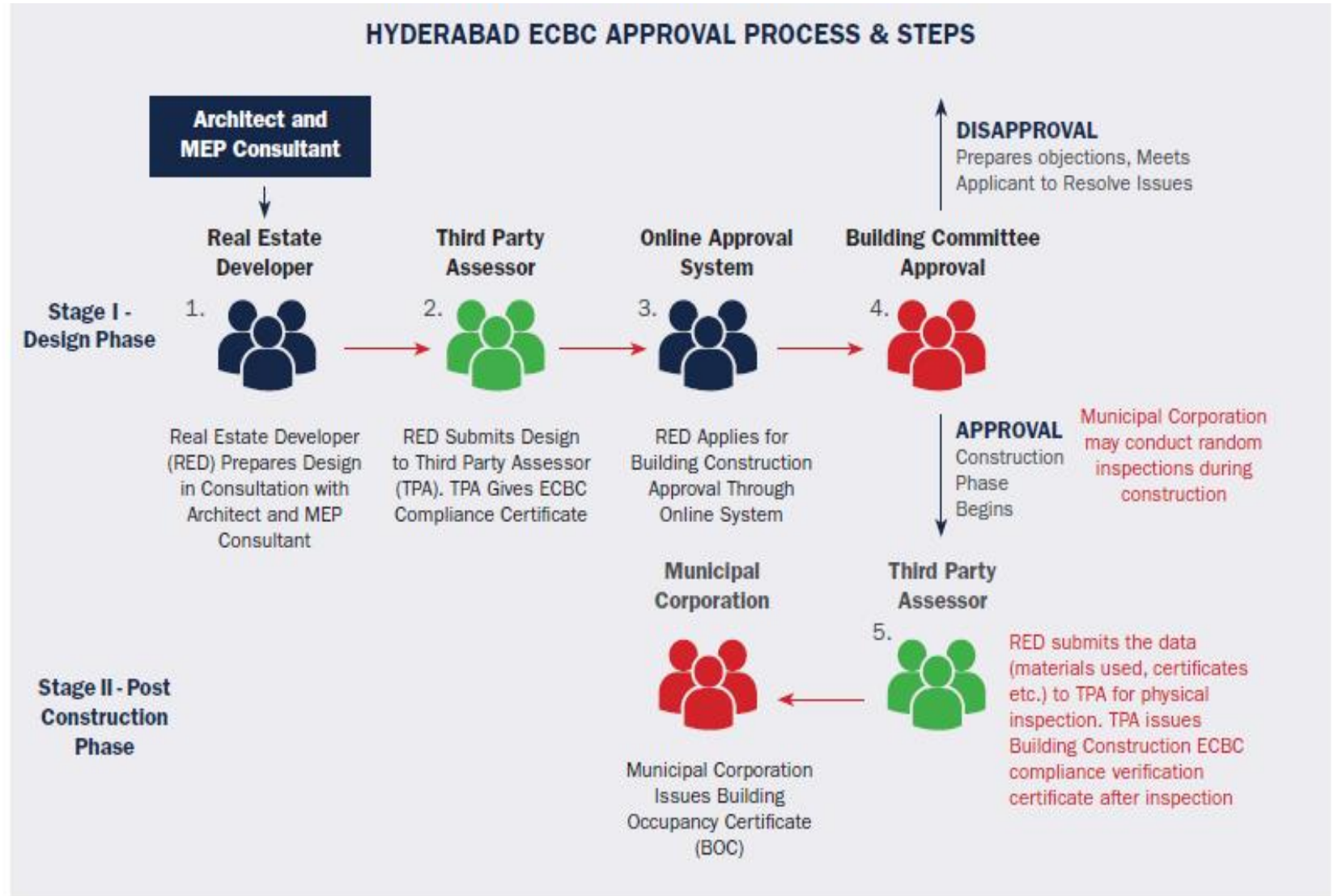


(Source: BEE Data and NRDC ASCI Analysis)

Energy Efficiency Codes Compliance and Implementation- *ensuring buy in from ULBs and Discoms*



ECBC Approval Process & Steps



How to strengthen compliance?

| Steps | Particulars | Activities | Key Stakeholders |
|---|---|---|--|
| Incorporation of ECBC in Online Compliance System | Updating system to include ECBC in building application workflow | <ul style="list-style-type: none"> ▪ Incorporating ECBC in existing building construction approval process | <ul style="list-style-type: none"> ▪ ULBs ▪ Building Construction Approval Committee ▪ DTCPO |
| Next Steps | Effective Monitoring and Verification Tool Development (<i>EMIS developed by BEE may prove as the best tool to ensure the compliance</i>) | <ul style="list-style-type: none"> ▪ Development of data framework for state level ECBC compliance and linking the framework to validating EMIS ▪ Linking online building construction approval with Energy Management Information System with BEE ▪ Introduce and advance a critical Building Energy Regulation and Disclosure policy (BER&D) in the state. | <ul style="list-style-type: none"> ▪ State Government, MAUD, Energy Department, SDA, BEE and other institutional partners |

Massive Capacity Building – Create pool of experts in every state

Regular interaction of ECBC Cells and learning from each other

States to adopt ECBC Rules developed by BEE and link with their existing rules for effective compliance

Ensure role of electricity utility through regulatory intervention for monitoring the compliance in post occupancy period

Thank You

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