

# Example: Illustrating ERI

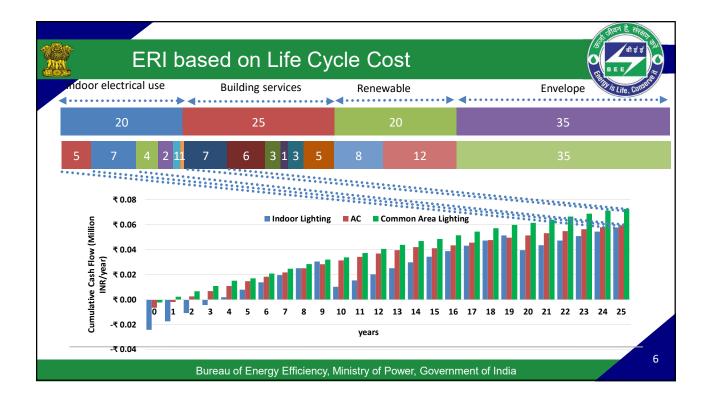
- **0-100 point system**, where 0 represents a net-zero-energy building, and 100 represents reference building baseline usage
- Assumption: Target point score in the ERI system is 55 (this is comparable to the current IECC target)

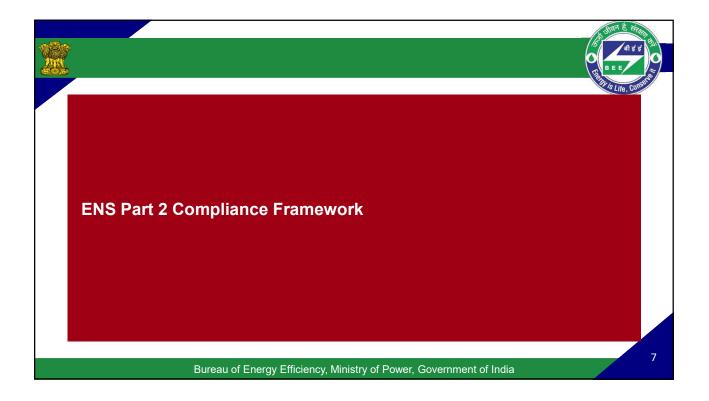
ightarrow Developers would thus have to achieve 45 points in savings from the various measure categories.

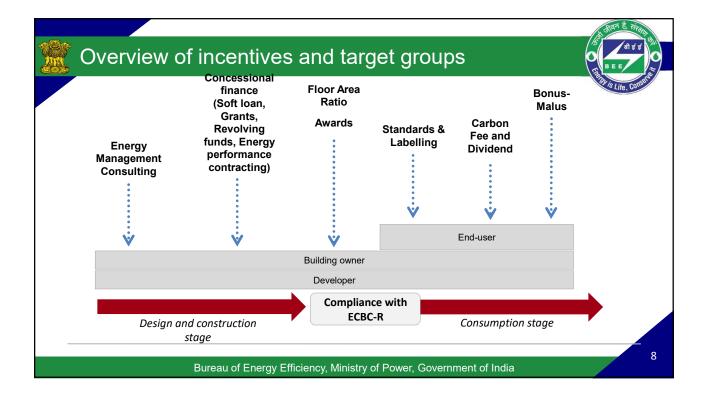
Measure category	Maximum points	Minimum points	Achieved points
Envelope	30	12	15
Comfort systems	15	5	10
Appliances	15	5	10
Common services	15	5	10
Renewables	15	0	0
Low embodied energy	10	0	0
Total points			45

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## Incentives

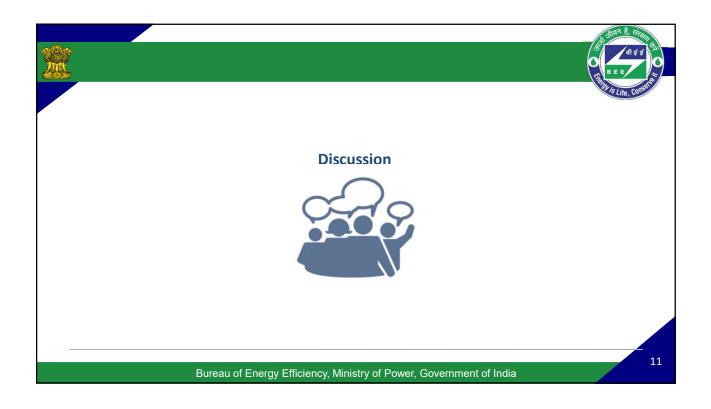
Incentive	Description	Existing practice in India
Standards & Labelling (Regulatory)	Standards for EE appliances and labels for consumer information; labels/certificates for ECBC-R compliant buildings	Standards & Labelling programme for equipment and appliances initiated by BEE, Super-Efficient Equipment Programme
Energy Management Consulting (Reward)	Wide range of subsidised energy consulting services to support compliance with ECBC-R involving on-site visits	Corporate Energy Audit Program as part of the Partnership to Accelerate Clean Energy – Deployment (PACE-D) by USAID
Floor Area Ratio (Reward)	Additional FAR awarded for compliance with ECBC-R	Additional FAR in several Indian states (mostly for GRIHA, in some states also for IGBC, LEED)
Awards (Reward)	Award money for promotors, developers, architects whose buildings comply with ECBC-R or have higher standards than ECBC-R	National Energy Conservation Awards; Haryana: Awards to promoters and architects
Bonus-Malus (Reward)	Fee / reward system with ECBC-R as reference value	No scheme currently in place

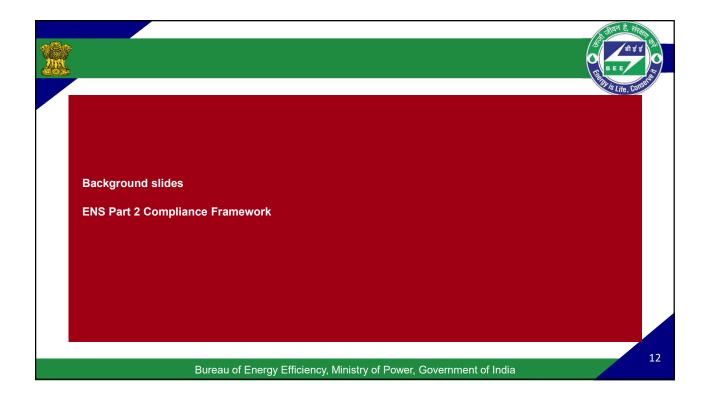
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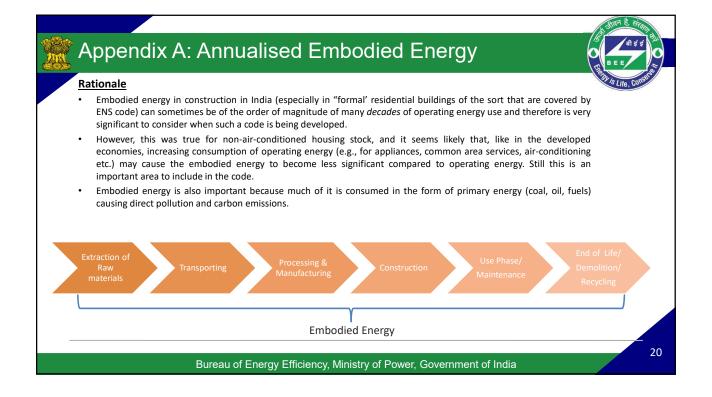
#### Incentives Incentive Description **Existing practice in India Carbon Fee and** Gradual increase of fee on fossil fuels, revenues No scheme currently in place Dividend are refunded to consumers (Fiscal) Loan with interest below market rate ("soft JICA&SIDBI: Financing Scheme in MSME Soft loans (Concessional finance) financing") to facilitate the compliance with ECBC-R Sector; IREDA EE Financing Scheme (part of EIB credit line) Grants (Concessional Grants to facilitate the compliance with ECBC-R Grants by Indian public-sector banks; GEF finance) grant provided to BEE **Revolving Funds** Fund providing loans for EE measures in buildings Energy Efficiency Revolving Fund (EERF) launched by GEF (Concessional finance) to facilitate ECBC-R compliance, repayment through energy savings EPC (Concessional ESCO implements EE measures for compliance Energy Efficiency Enhancement Project, with ECBC-R uses cost savings to repay costs of Standard Offer by distribution companies finance) project

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### Appendix B: Better Construction Practices

### **Rationale**

Energy can be consumed in bad practices that may be observed on building sites. This needs to be stopped but is currently outside the scope of this code. Typical bad practices include excessive requirement of movement of fluids or solids on site due to bad layout, improper sizing of pipes to save initial costs but causing greater pumping power due to friction, over or under-reliance on assisted manual labour (which may be seen as a form of renewable energy), and industry having got used to fuel-based services or energy-on-tap and so unable to convert to a renewable energy such as solar photovoltaic systems due to their being inform. Often machinery is also designed so as to have very high starting surge loads. These four areas below need to be improved and then can be codified.



Picture Source: <u>https://www.raconteur.net/business-innovation/seven-construction-innovations</u> Bureau of Energy Efficiency, Ministry of Power, Government of India

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