



Bureau of Energy Efficiency



सत्यमेव जयते  
Government of India  
Ministry of Power



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DEUTSCHE ZUSAMMENARBEIT

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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

9<sup>th</sup>-11<sup>th</sup> September, 2019 | Hotel The LaLIT, New Delhi





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THIS PRESENTATION WAS SHARED BY

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FOR THE SESSION:

*“Smart Cities and Smart Readiness Indicators (SRI) for  
Buildings”*

DURING ANGAN 2019

Knowledge Partner



Event Partner





European  
Commission



# Smart Readiness Indicator (SRI) Concept and Process



## Energy Union Governance



### Energy Efficiency

(Energy Efficiency Directive, European Performance of Buildings Directive)



### Renewables

(Revised Renewable Energy Directive)



### New Electricity Market Design

(including Risk Preparedness)



### Energy prices and costs report



## **Energy Efficiency Directive**

- 32,5% energy efficiency target for 2030;



## **Energy Performance of Buildings**

- Supportive of renovation;
- Smarter – ICT, smart buildings;
- Simpler;



## **Ecodesign Working Plan 2016-2019**

- List of new product groups;
- Contribution to circular economy objectives;

## REVISED Energy Performance of Buildings Directive

- ✓ Stronger **long term renovation strategies** for Member States, aiming at decarbonisation by 2050 and with a solid financial component.
- ✓ Requirements for the deployment of **e-mobility** infrastructure in certain buildings' car parks.
- ✓ A **smart readiness indicator (SRI)** for buildings
- ✓ Reinforcement of **building automation**: additional requirements on room temperature level controls, building automation and controls and enhanced consideration of typical operating conditions.
- ✓ Enhanced **transparency** of national building energy performance calculation methodologies.

## SMART READINESS INDICATOR

### MOTIVATION & SCOPE

- ✓ Rating based on assessment of building or building unit's capabilities to adapt to occupant and grid's needs and to improve EE and overall performance
- ✓ The SRI will:
  - **raise awareness** about the benefits of smart technologies in buildings,
  - **support and orient investments** in smart technologies
- ✓ The SRI can:
  - contribute to enhancing **energy efficiency**, **comfort** and **well-being** in buildings,
  - improve **policy linkages** with connected initiatives,
  - contribute to integration of buildings into future **energy systems** and **markets**
- ✓ The SRI will cover:
  - optimisation of **energy performance** and **operation**,
  - adaptation to **occupants' needs**, maintaining healthy indoor climate conditions
  - **flexibility** of a building's overall electricity demand

## SMART READINESS INDICATOR

### PROVISIONS & PROCESS

- ✓ “An optional common Union scheme for rating the smart readiness of buildings” (Article 8(10) amended EPBD)
- ✓ The indicator is **developed by the European Commission**, with support of **technical studies**:
  - 1<sup>st</sup> technical study: March 2017 – August 2018
  - 2<sup>nd</sup> technical study: started in December 2018
  - Adoption by mid-2020
- ✓ Extensive consultation of Member States and stakeholders
- ✓ Study website: <https://smartreadinessindicator.eu>
- ✓ Milestones:
  - Adoption by mid-2020
  - Test of draft methodology from September 2019 (based on inputs from the study – summer 2019)
  - Next stakeholder meeting 9 October 2019





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# Thank you

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<https://ec.europa.eu/energy/en/topics/energy-efficiency/buildings>