



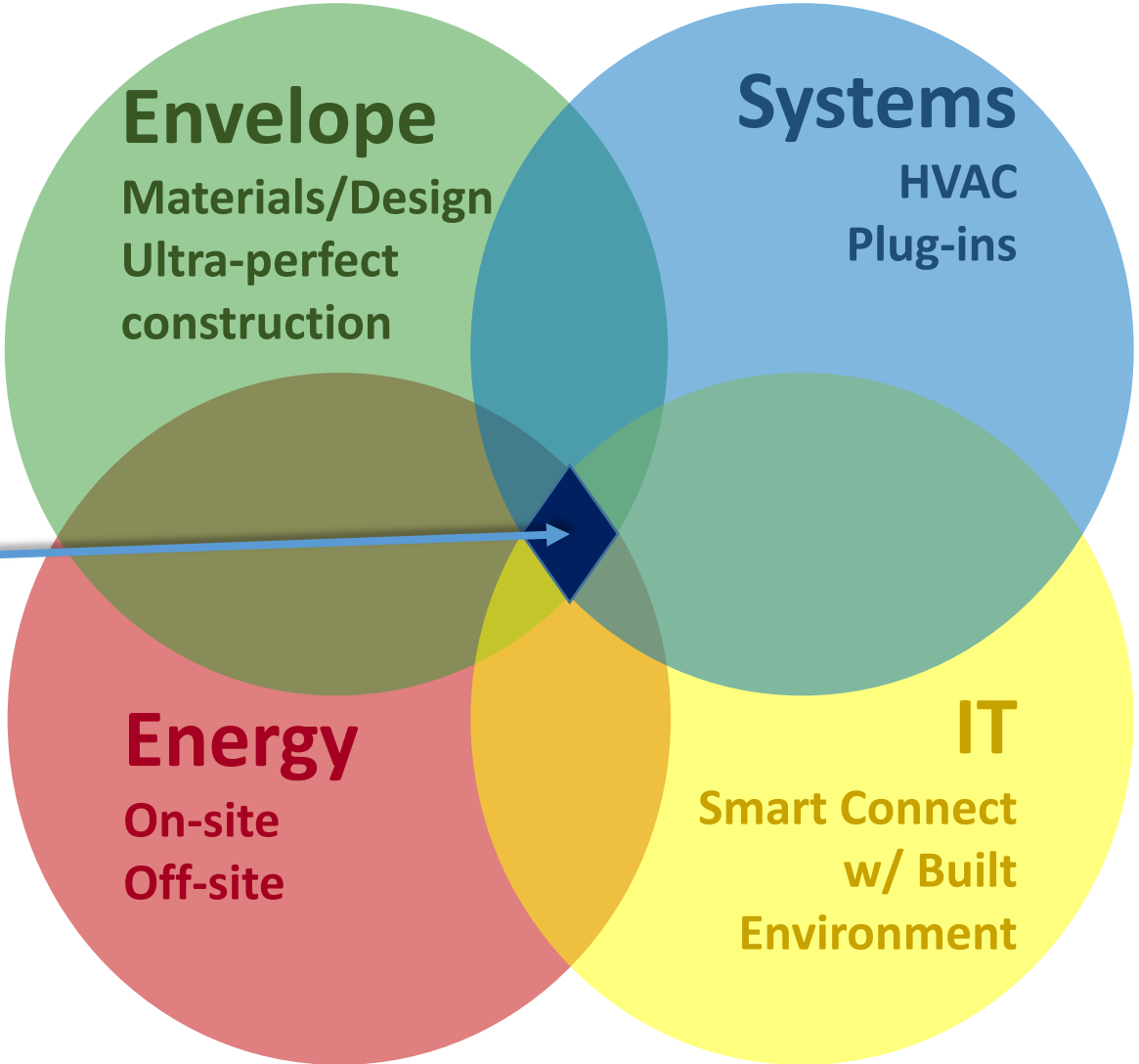
Framework Guidelines for Energy Efficiency Standards in Buildings



High Performance Buildings



Sweet Spot



Targets kWh/m²/a

ENERGY



Passive

New build,
space
conditioning

15

25

45

90

High Performance

Retrofit, space condition +
HVAC and hot water

High Performance

Retrofit, space condition,
HVAC, hot water, and
plug-ins

Passive

Retrofit space
conditioning

Targets kWh/m²/a

ENERGY



Typical Building
Median NYC
Multifamily
EUI*

*NEW YORK CITY
LOCAL LAW 84
BENCHMARKING
REPORT, 2014

417

Actual Median Source Energy
(EUI) in kWh/m²/a

High Perform
Retrofit, space
condition,
HVAC, hot
water, and
plug-ins

90

High Perform
Retrofit, space
condition +
HVAC and hot
water

45

Target Source Energy
(EUI) in kWh/m²/a

Passive
Retrofit, space
conditioning

25

Passive
New build,
space
conditioning

15

Framework Guidelines on Energy Efficiency Standards in Buildings

ENERGY



UNECE Framework Guidelines on Energy Efficiency Standards in Buildings
can be found at:

<https://www.unece.org/index.php?id=45864>

Framework guidelines for EE standards in buildings

ENERGY



Implementation

- Dissemination
- Education
- Research
- Consultation
- Participation

Framework guidelines for EE standards in buildings

ENERGY



Mobilizing a Movement

- Global research consortium
- Research and demonstration projects
- International Centers of Excellence



Thank you!

Scott FOSTER
Director
UNECE Sustainable Energy Division
+41 22 917 2444
scott.foster@unece.org

