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# More than counting beans: The role of evaluation, monitoring & verification

## C4E Forum

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# Four questions on EM&V

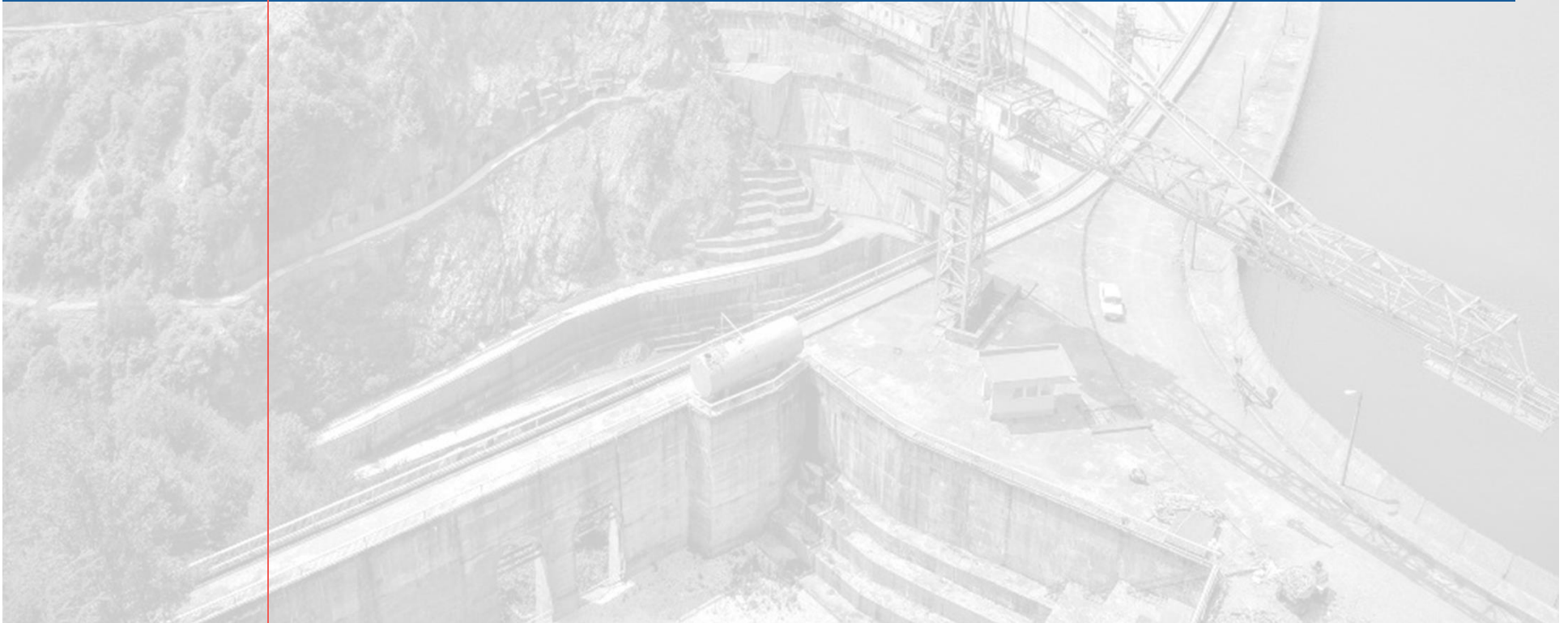


EM&V - why does it matter?

What are the requirements for EM&V under Article 7?

What does best practice look like?

# 1 EM&V - why does it matter?



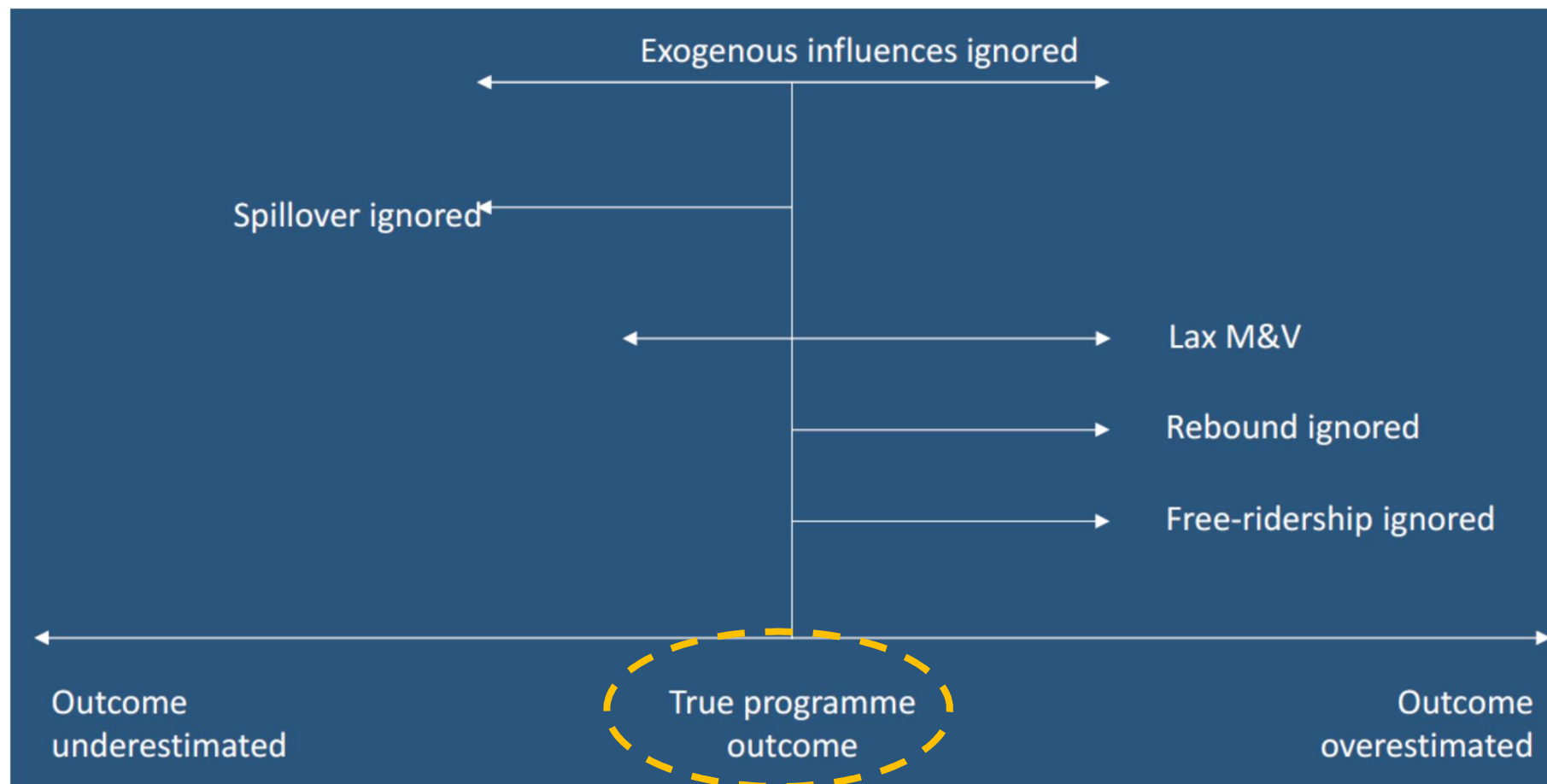






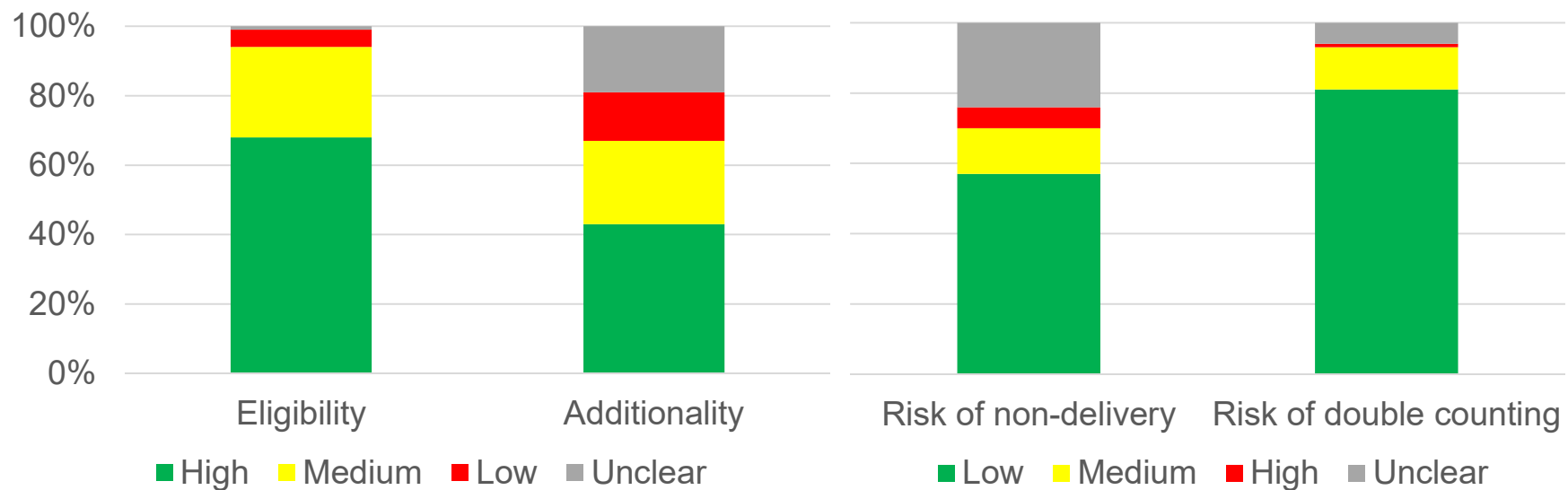


# actual savings $\neq$ reported savings



Source: Rosenow et al. 2017, adapted from Wade and Eyre (2015)

# Only 14% of all reported energy savings under Article 7 follow best practice

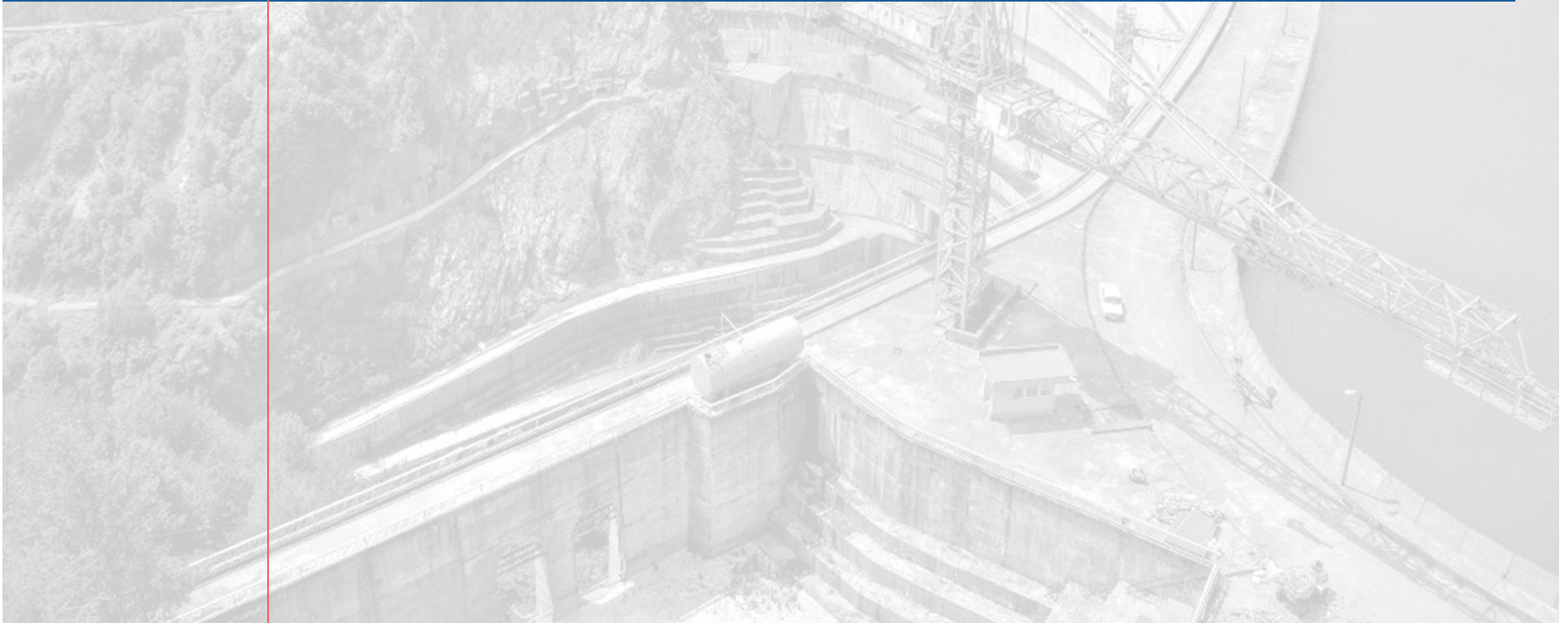


Source: Rosenow et al. 2016



**2**

**What are the requirements for EM&V under Article 7?**

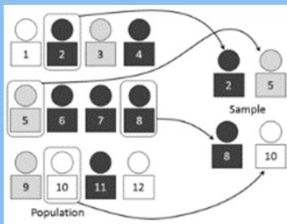


# EM&V under Article 7

**Additionality**



**Statistically representative sampling**



**Independent audits**



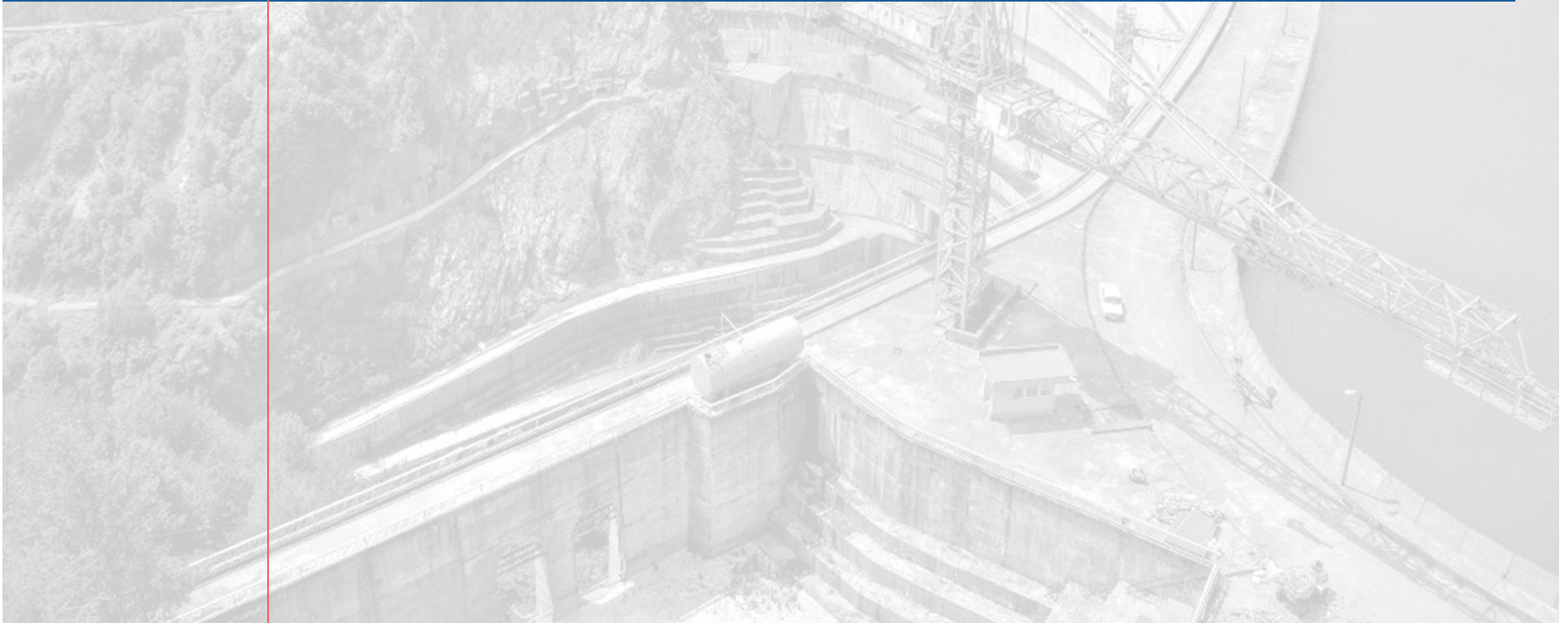
**Demonstrated materiality**



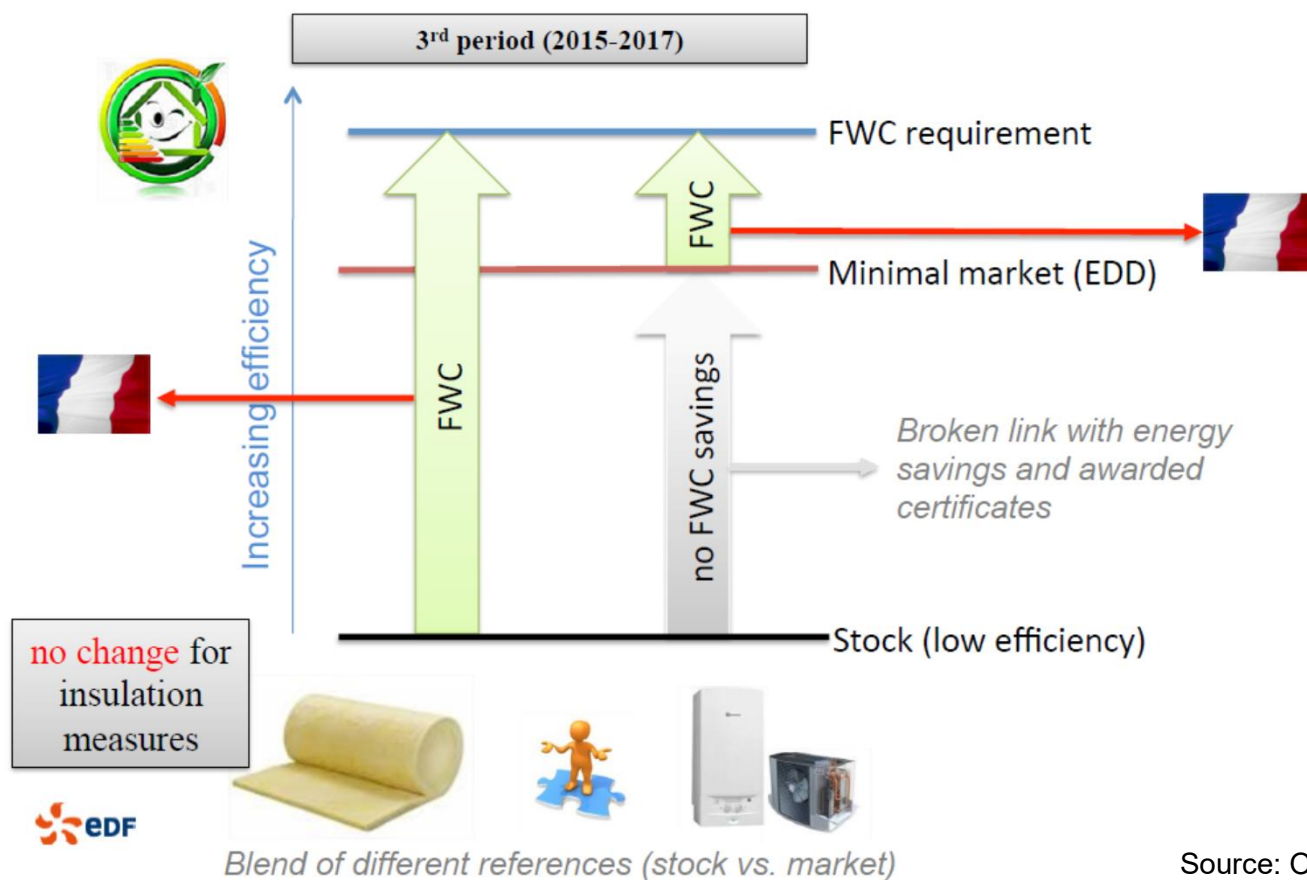


**3**

## **What does best practice look like?**



# Additionality: the French White Certificate scheme



Source: Osso et al. 2015



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# Materiality: Estonian KredEx Credit and Export Guarantee Fund

Financial contribution  
of 15-35% of  
investment costs



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# Auditing: Czech Operational Programme Enterprise and Innovation for Competitiveness

Realised savings are measured for 12 months after the installation to ensure they are in line with expectations.





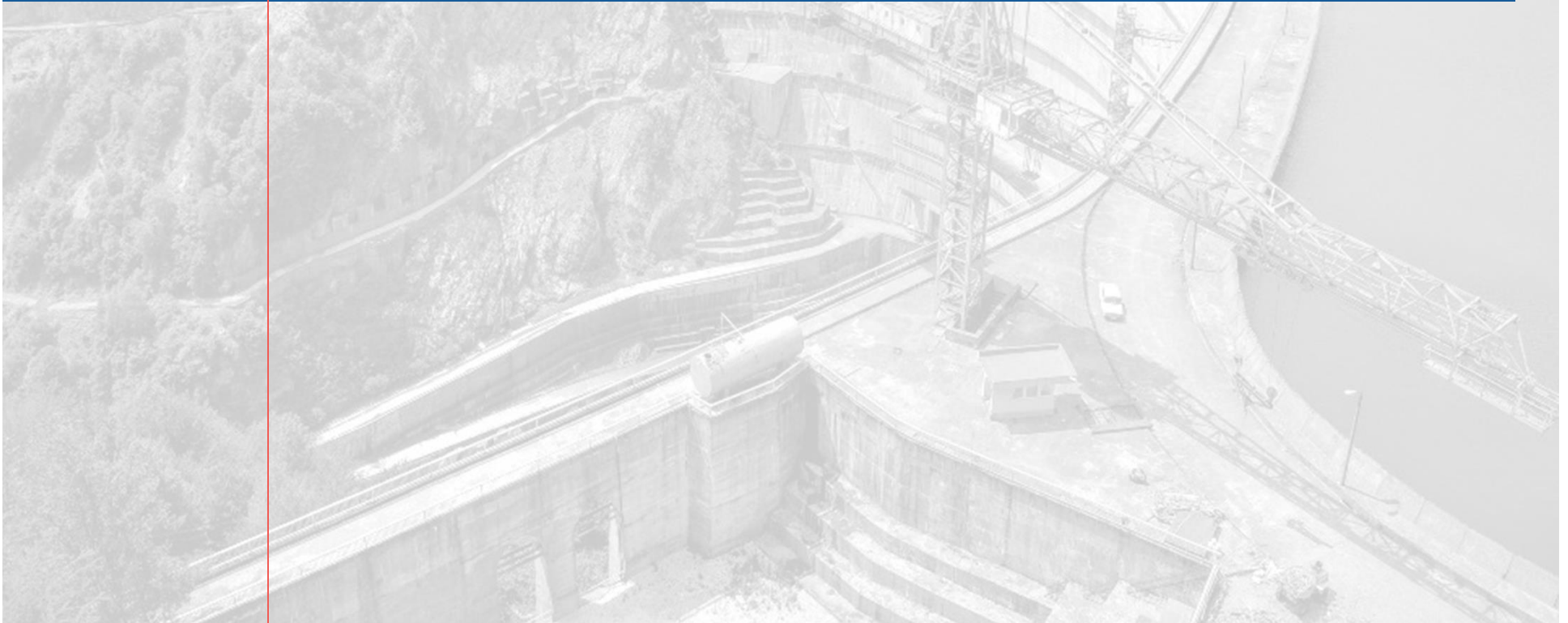
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# Sampling: BATEX in the Brussels-Capital Region

- Web-based application to:
  - gather information on 500 individual measures
  - detailed monitoring of actual consumptions and the experienced comfort level



# Conclusions



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# Conclusions



EM&V key to  
making sure  
savings are real,  
currently not  
ensured



Article 7 requires  
sound EM&V



Plenty of best-  
practice examples







# About RAP

The Regulatory Assistance Project (RAP)<sup>®</sup> is an independent, non-partisan, non-governmental organization dedicated to accelerating the transition to a clean, reliable, and efficient energy future.

Learn more about our work at [raponline.org](https://raponline.org)



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