

The Investor Confidence Project

Parallel Session: Standardization and Benchmarking

Energy Efficiency Finance Market Place Conference
Brussels, January 18th, 2017



An international framework for reducing owner and investor risk, lowering due diligence costs, increasing certainty of savings achievement and enabling aggregation.





Ensures transparency,
consistency and trust-
worthiness through **best
practice and independent
verification.**

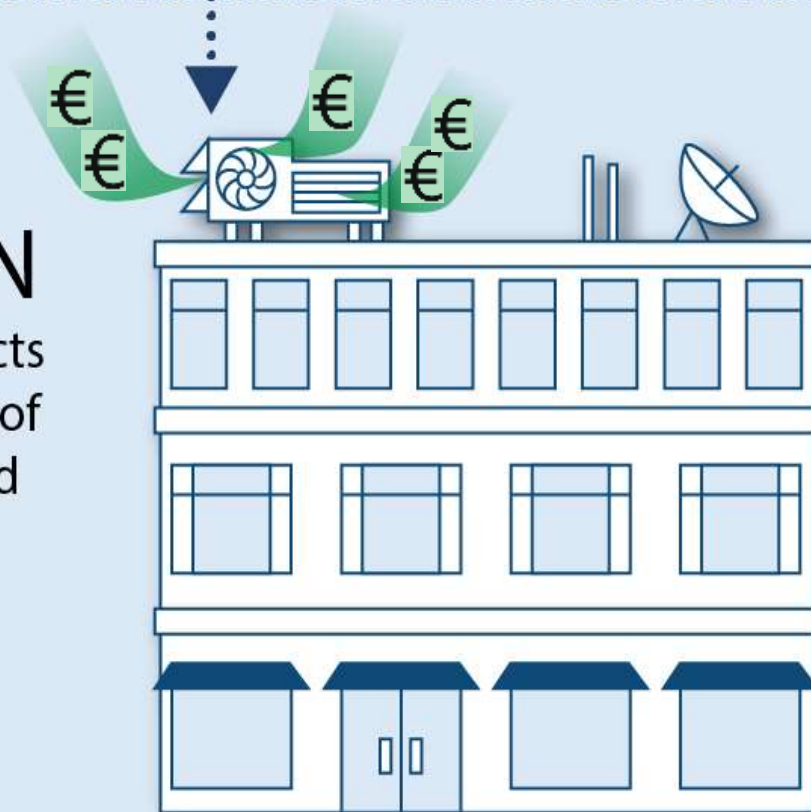
ICP delivers the IREE™ Certification





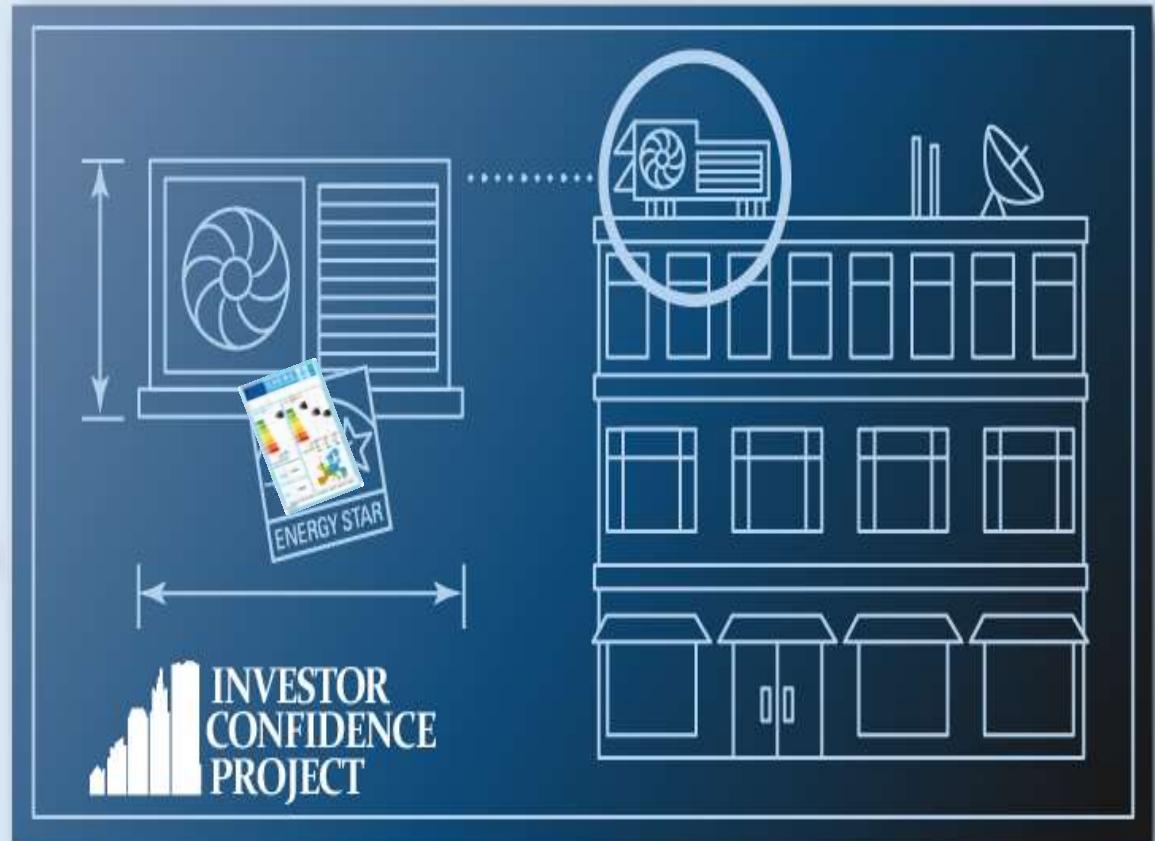
ORIGINATION

Energy efficiency projects will come from a range of channels, programs, and businesses.



PROJECT DEVELOPMENT

Credentialed Project Developer develops and documents projects according to ICP Protocols.



CERTIFICATION

Independent Credentialed
Quality Assurance Provider
reviews project for
ICP compliance and certifies
qualifying projects as
Investor Ready Energy Efficiency™.

ICP Quality Assurance Checklist v1.0

INVESTOR CONFIDENCE PROJECT
Energy Performance Protocol
Large Commercial v.1.0

Client: ICF Property LLC
Project: 123 Main St
Project Location: Chicago, Illinois
ICP Provider: Energy Quality Assurance

✓ ICP-REQ CHECKPOINTS	✓ ICP-REQ CHECKPOINTS
<input type="checkbox"/> 14-30 Occupancy data	<input type="checkbox"/> Software open
<input type="checkbox"/> Utility baseline period	<input type="checkbox"/> Multiple credentials
<input type="checkbox"/> End use energy use data	<input type="checkbox"/> Weather file
<input type="checkbox"/> Weather data-related baseline	<input type="checkbox"/> Measurement file
<input type="checkbox"/> 12 mos occupancy-related baseline	<input type="checkbox"/> Model output file
<input type="checkbox"/> Building audit data	<input type="checkbox"/> Model calibration
<input type="checkbox"/> Baseline operational/performance data	<input type="checkbox"/> Model process description
<input type="checkbox"/> Metered/ regression-based baseline	<input type="checkbox"/> Energy Efficiency Report
<input type="checkbox"/> Utility rate structure	<input type="checkbox"/> Energy Conservation Measures (ECMs)
<input type="checkbox"/> Demand Charges or Time of Use (applicable)	<input type="checkbox"/> Investment criteria
<input type="checkbox"/> Annual fuel profiles	<input type="checkbox"/> ECM model available
<input type="checkbox"/> Average daily load profiles	<input type="checkbox"/> ECM results and package results
<input type="checkbox"/> Peak usage	<input type="checkbox"/> Cost software
<input type="checkbox"/> kWh summary by month (if applicable)	<input type="checkbox"/> Quality assurance statement

✓ ICP-REQ CHECKPOINTS	✓ ICP-REQ CHECKPOINTS
<input type="checkbox"/> Operational Performance Verification plan	<input type="checkbox"/> Measurement and Verification plan
<input type="checkbox"/> DPV authority established	<input type="checkbox"/> M&V agent established

✓ ICP-REQ CHECKPOINTS	✓ ICP-REQ CHECKPOINTS
<input type="checkbox"/> Display management system	<input type="checkbox"/> Project Developer Credentialed

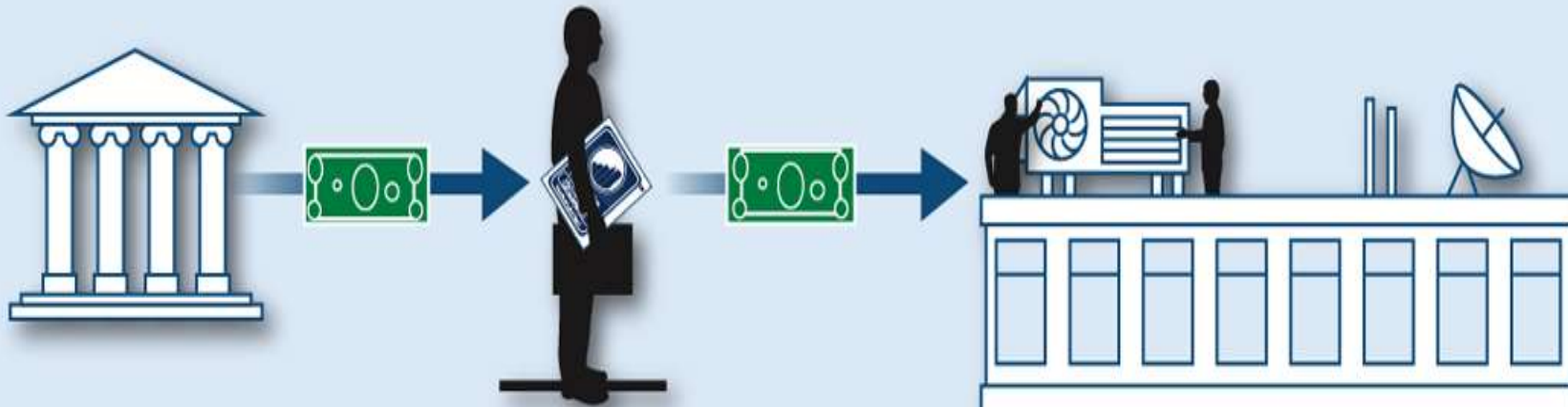
QA Date: Actual Quality Assurance
Reviewed by: John Doe
Date: 1/1/18
Signature: *[Signature]*

*Reviewer must be pulling releases on ICP-QA installation

By signing this ICP-QA checklist, the ICP Quality Assurance Provider attests to having reviewed the project development documentation and certifies that the project substantially follows the ICF Energy Performance Protocol and the ICF Project Development Guidelines. This Quality Assurance review and opinion does not constitute a guarantee of energy savings performance, nor does it imply that the reviewer is taking operational responsibility for the installed equipment and engineering as defined by the underlying Project Developer.



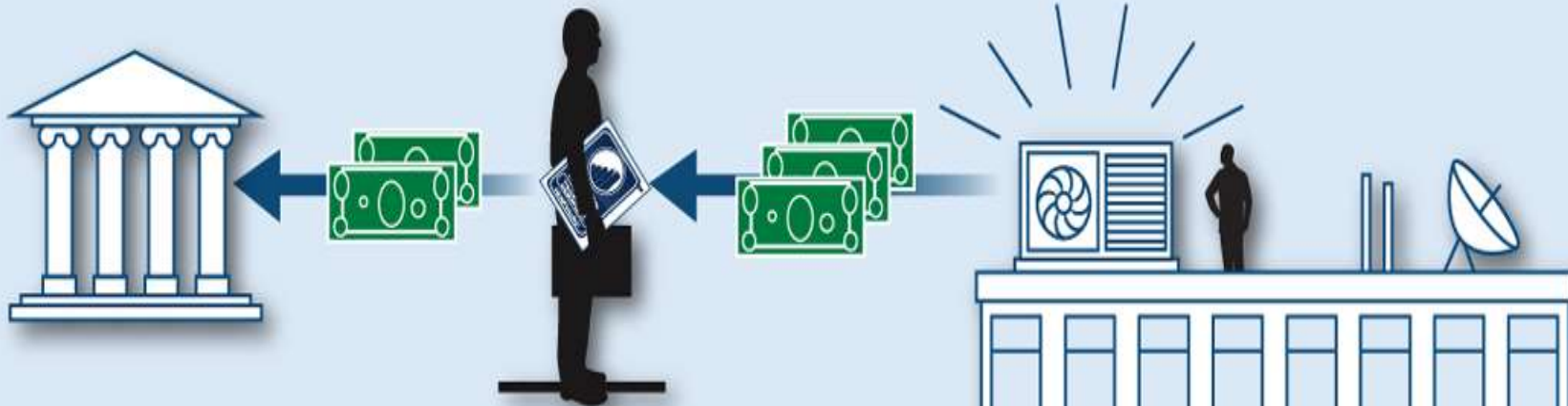
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INVESTMENT

Building owners and investors can make investment decisions with increased confidence based on predicted savings.





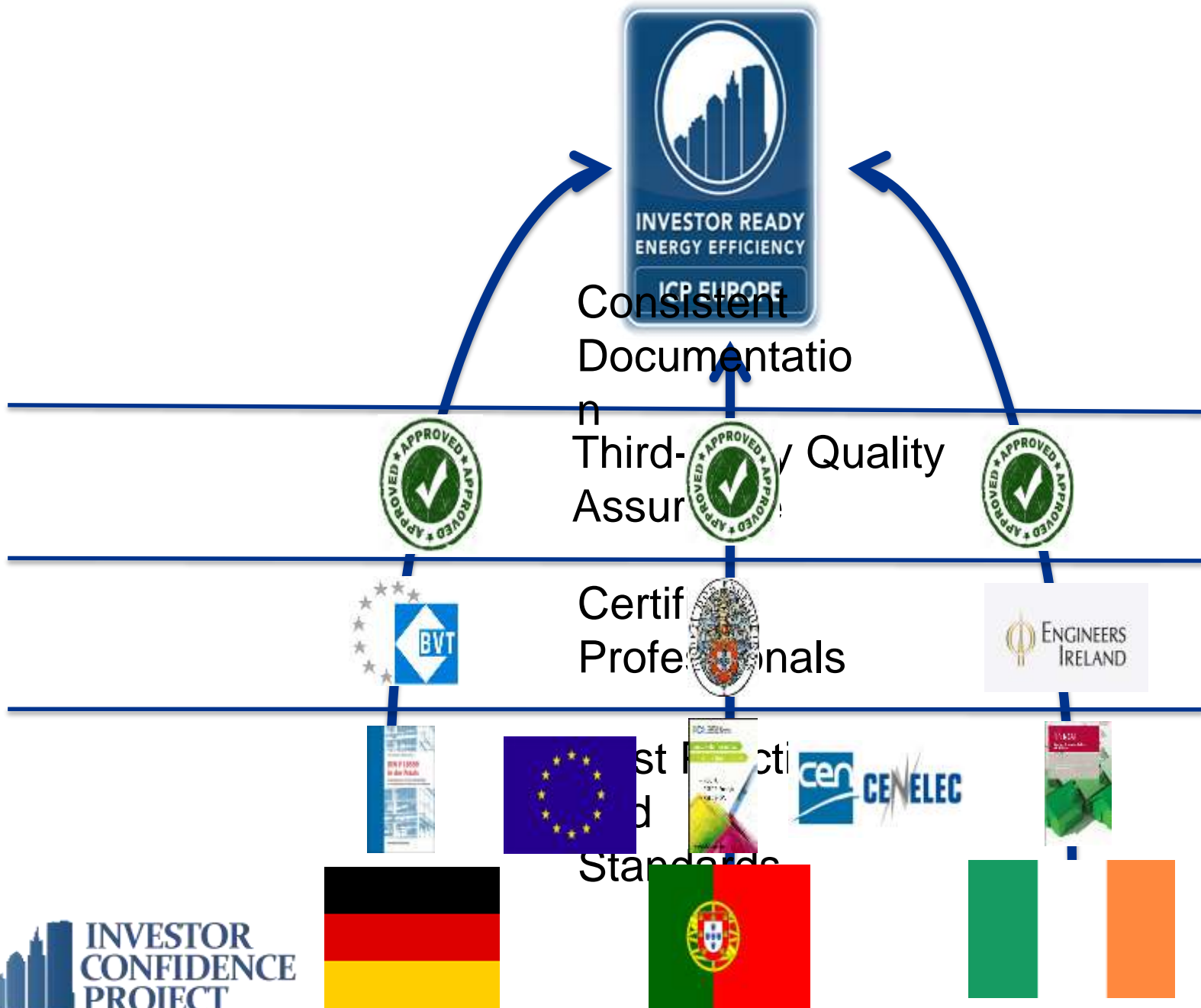
PERFORMANCE

Building's energy performance is optimized and energy savings from retrofit are measured and verified according to ICP Protocols.



SM

Standardisation



Consistent
Documentation

Third-Party Quality Assurance

Certified Professionals

European Standards

**31 countries
(3 regions of Belgium)**





Tertiary Buildings (commercial, retail, institutional, etc.)

Apartment Block



ICP Europe Stakeholders

165 ALLY ORGANISATIONS

185 TECHNICAL FORUM MEMBERS

16 INVESTOR NETWORK MEMBERS

- Representing **€1bn+** in available funds looking for EE projects

CREDENTIALLED PROVIDERS

- **16** Project Developers
- **7** Quality Assurance Providers
- **1** Software Provider

ICP Europe Ally Network Members



ICP Europe Investor Network




SUMACAPITAL
private equity

 JOULE
ASSETS

INGENIOUS INFRASTRUCTURE

eeef
EUROPEAN ENERGY
EFFICIENCY FUND

 ENERGY EFFICIENCY AND
RENEWABLE SOURCES FUND

 piB
INSURANCE BROKERS

 RBS

 ADAXIA
CAPITAL PARTNERS

CutPower®
Europe's greatest energy

 SUSI PARTNERS
SUSTAINABLE INVESTMENTS

 CEF
The CARBON & ENERGY FUND

Triodos  Bank

Menhaden

AMBER
GREEN
Sustainable Capital

 INVESTOR
CONFIDENCE
PROJECT

Scaling up - globally



ICP Project Registry aims at jump starting industry data acquisition today

Project performance data is the precursor to laying the foundation for investors to **effectively manage risk, value predicted energy savings, and to recognize energy efficiency as its own asset class.**

ICP requires all third-party assurance providers to register and update project basic and performance data.

Investor Ready Energy Efficiency Project Tracking and Registration Form

The form contains several sections with input fields and checkboxes:

- Project Name:** Text input field.
- Project Description:** Large text area.
- Project Details:** Text input field.
- Project Location (City/State):** Text input field.
- Project Type (Commercial/Industrial):** Radio button options.
- Building/Process/Equipment Name:** Text input field.
- Energy Efficiency:** Text input field.
- Energy Savings:** Text input field.
- ICP:** Radio button options.
- Assurance Provider Information:** Text input field.
- Assurance Provider Name:** Text input field.
- Assurance Provider Address:** Text input field.
- Assurance Provider Phone:** Text input field.
- Assurance Provider Email:** Text input field.
- Assurance Provider Website:** Text input field.

Project Details

The form contains several sections with input fields and radio button options:

- Building Size:** Text input field.
- Year Built:** Text input field.
- Type of Project/Use:** Radio button options: All Projects, Retail, Green, Energy Service Agreement, Lease, Industrial, Energy Conservation Measure, HVAC, Insulation, Lighting, Variable Speed Drive, Lighting, Energy Management System, Water Conservation, Water of Building/Process, Industrial Storage, Full Scale Customer, Total, Other.
- Building Type:** Radio button options: Commercial Office, Commercial Retail, Multi-Family, Industrial, Residential, Hospitality, Food/Service, Lodging, Entertainment/Event Venues, Healthcare, Public Service, Warehouse/Storage, Other.
- Water of Building/Process:** Text input field.
- Industrial Storage/Full Scale Customer/Total:** Text input field.
- Other:** Text input field.
- Project Status (Approved/Not Approved):** Radio button options.
- Save** button.



ICP Building Button provides a common language for the industry

- A **dictionary** to standardize the **common language** necessary to develop an asset class

Use cases:

- Technical due diligence
- Financial underwriting
- Actuarial project analysis



Building Button is a data dictionary that simplifies how we share efficiency retrofit data across project developers, QA providers, building owners, and investors.

ICP is working with other initiatives

ICP incorporated into EFIG underwriting guide



CEN/CENELEC Working Group on Financial Tools



ICP Europe is co-operating with CBI to incorporate ICP into the next revision of standards

Climate Bonds INITIATIVE

Lessons learnt

Country specific strategies needed

Importance of tight project management through regular 1:1s with consortium members and whole consortium

Centralise marketing and use e-marketing tools

Translation of technical things is very difficult

Need TA to help early adopter project hosts and investors adopt ICP – would allow more funds for this in future

Summary

Investor Confidence Project ensures transparency, consistency and trust-worthiness through **best practice and independent verification.**

First 18 months of project has successfully launched the tools

Second 18 months is all about applying the tools to real projects and finance programmes

Generalisation will occur after end of H2020 project through GBCI

European Commission Disclaimer



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