The EEFIG Underwriting Toolkit

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EEFIG UNDERWRITING TOOLKIT Value and Risk Appraisal for Energy Efficiency Financing

A tool to assist financial institutions to scale up the deployment of capital into energy efficiency



Introduction



Financial Institutions

and Energy Efficiency

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Financing Energy

Efficiency



Value and Risk

Appraisal



Resources



I strongly recommend this toolkit to project promoters, banks, financial institutions and anyone else interested in financing energy efficiency Foreword by Maroš Šefčovič, European Commission VP



The Project Life Cycle

It will make it easier for financial institutions
to carry out value and risk appraisals, for
developers to attract capital, for businesses to
fund projects
Foreword by Erik Solheim, UN Environment

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Purpose of the EEFIG Underwriting Toolkit

To assist financial institutions in scaling up the deployment of capital into energy efficiency by:

- helping financial institutions better understand and evaluate value and risks.
- providing a common framework for evaluating energy efficiency investments and analysing the risks.
- helping developers and owners develop projects in a way that better addresses the needs of financial institutions.
- fostering a **common language** between project developers, project owners and financial institutions.



Value and Risk Appraisal







Structure

- Financial Institutions and Energy Efficiency
- Financing Energy Efficiency
- The Project Life Cycle
- Value and Risk Appraisal

Hard copy and on-line http://valueandrisk.eefig.eu

Resources

On-line http://valueandrisk.eefig.eu/resources

AUDIENCES

- Senior management
- Valuation and risk teams
- Originators & project developers



Financial institutions & energy efficiency – the why?

Four reasons why financial institutions should be active in energy efficiency:

- Large market opportunity
- Risk reduction
 - Client risk through improved cash flow
 - Avoiding stranded assets as regulations tighten
- Achieving environmental objectives, CSR/ESG
- Growing interest from the regulators in climate risk



Financing energy efficiency – the how?

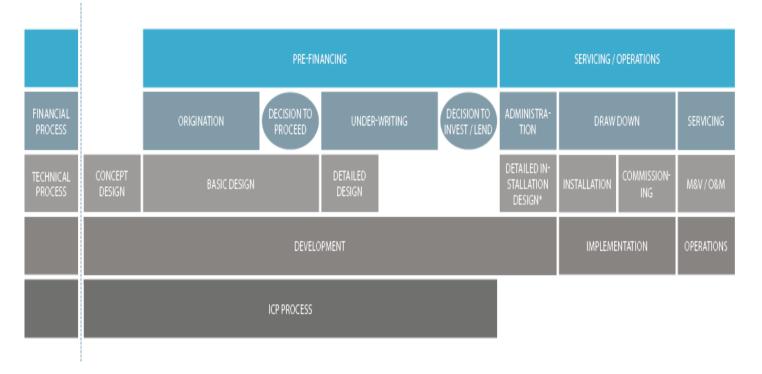
- Types of energy efficiency financing
 - Commercial/consumer loans
 - Leases
 - Green mortgages
 - Energy efficiency funds
 - Specialised energy services contracts e.g. EPCs and others
 - Property funds specializing in energy efficient/green properties
 - Green bonds
 - Forfaiting funds
 - Securitisation

Ensuring normal, every day lending incorporates better than BAU energy efficiency



The project life cycle

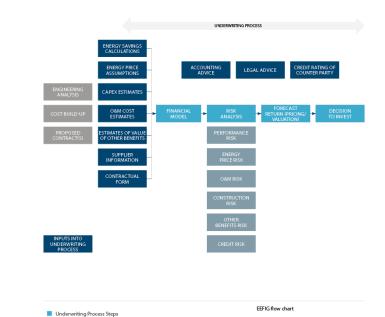
- Developers and financial institutions need to engage early in development process
- Need to create a common process and language
- Need to standardize





The underwriting process

- Technical and financial inputs from development process
- Build financial model
- Risk analysis
- Valuation
- Decision



Inputs
Components of Risk Analysis
Inputs into underwriting proces

A common understanding of process helps financial institutions and project developers Building a common language



Value & risk appraisal - Value

- Sources of value
 - Energy
 - Savings
 - Reduced impact of energy price volatility
 - Reduced need to spend capex
 - Non-energy
 - Asset value
 - Productivity
 - Health & well-being
 - Etc etc

Non-energy benefits are often much more strategic and attractive to decision makers than energy cost savings

Financial appraisal needs to identify and value all benefits







Value & risk appraisal - Risk



- Acknowledge and understand all the risks
- Very little data linking energy performance to financial performance
- Financial institutions should tag EE loans to enable risk analysis in future
- Better understanding of risk can bring more capital and product innovation

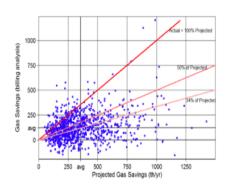
Performance risk has been neglected but is critical - even if you don't think you are taking the risk you are taking some

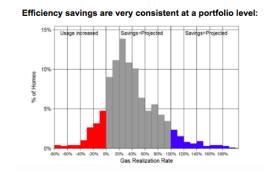


Understanding of risks

"The returns are tremendous, and there's virtually no risk"

1980s energy efficiency text book





Data is the key to understanding risk – DEEP etc

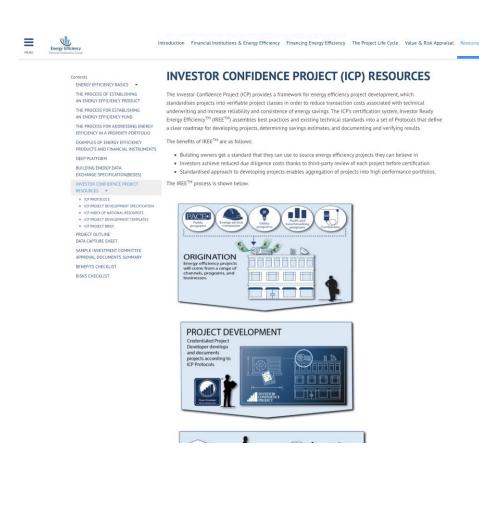
Risk analysis should highlight factors with the biggest impact on financial return May be worth spending more money to fully understand those factors i.e. get more data



Resources

- An on-line living document
 - Energy efficiency basics
 - Energy efficiency technologies
 - Examples of financial products
 - Glossary of terms
 - Processes for establishing products
 - DEEP
 - Investor Confidence Project resources
 - Project outline data capture sheet
 - Benefits and risks checklists

http://valueandrisk.eefig.eu/resources





Market Reaction

"This is a very useful document" Ashok Sarkar, World Bank

"The Toolkit helps commercial banks and financial institutions see where the risks are and to build capacity" **Toivo Miller, EBRD**

"An invaluable reference document, which will help the cause" **Stephen Barker, Siemens**

"The launch of this guidance for underwriting energy efficiency projects is greatly appreciated by the financial community. This is a useful tool which helps us better understand both the value and the risks of energy efficiency investments. This also provides a needed framework to improve our products and services and make them more competitive and attractive on the market." **Cristian Sporis, Raiffeisen Bank**

"We took the underwriting toolkit with its project cycle and used it to look at 64 projects. We really liked it. It was really easy to use. It works." Katarzyna Dziamara, Polish Institute for Regional Development Financing

"This is great" Ben Goldsmith, Menhaden Capital



A vision for the EEFIG Toolkit

- A document that financial institutions can use to build capacity in energy efficiency financing
- A living document that grows with the market
- A growing library of case studies and examples of EE financing of all types
- Links to real data on energy & financial performance
- Tracking investment



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