SPEEDIER

Module 5: National Funding Options, Risk Management, and Verification

This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N. 847034

National Funding Options

01 SEAI

- EEOS
- Energy Upgrade Grant Funding
- Energy Driven

02 Enterprise Ireland

03 Local Enterprise Office

- SME Funding
- Production Driven

This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N. 847034

SEAI Funding Options

Funding name	Description	Details
Energy Efficiency Obligation Scheme (EEOS)	Energy Suppliers pay for your energy upgrades and the savings from this upgrade will be used by the Supplier to get energy credits.	Link
EXCEED	From Design stage to implementation, help is given by SEAI.	Link
Project Assistance Grants	Can provide you with a feasibility study and an Energy Project or Final business case and project delivery support grant.	Link
Accelerated Capital Allowance	Based on Triple E register of equipment, company that pays corporation tax in Ireland to deduct the full cost of the equipment from their profits in the year of purchase.	Link
Support Scheme for Renewable Heat	Incentivise the development and supply of renewable heat. Installation costs and operating support is available	Link
Energy Contracting	It's a 'pay for performance' approach to installing and operating energy technologies in your business. 50% of cost up to €7,500	Link

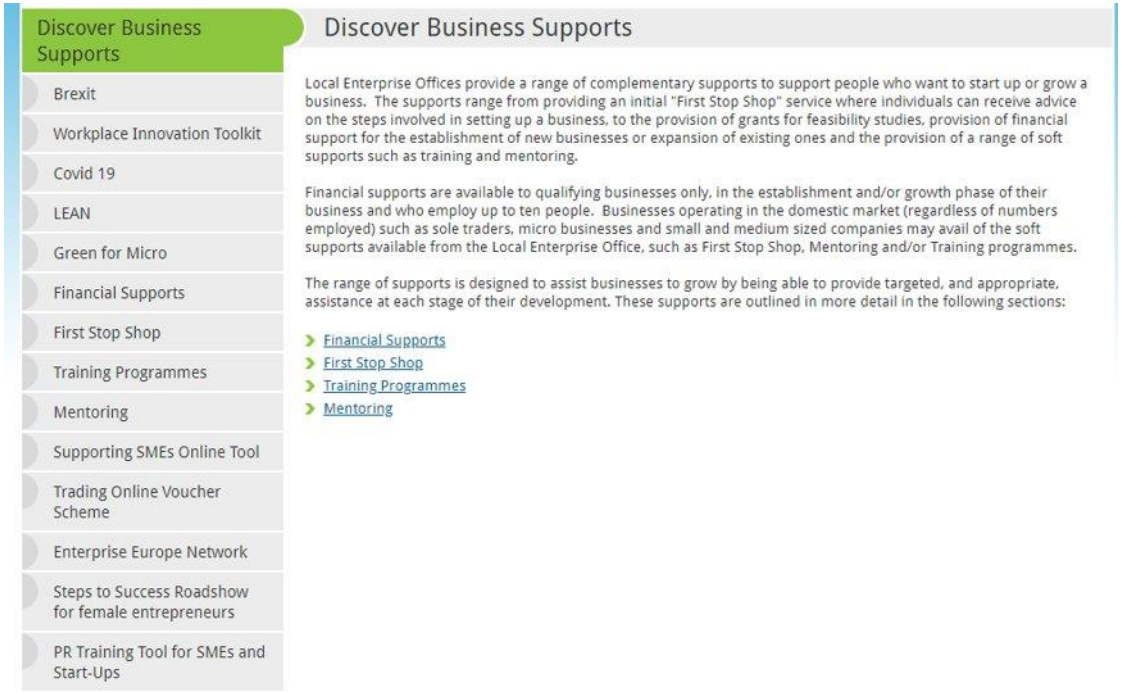
This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N. 847034

EI Funding Options

https://www.enterprise-ireland.com/en/funding-supports/

This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N. 847034

LEO Funding Options



https://www.localenterprise.ie/Discover-Business-Supports//

This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N. 847034

Register of Opportunities

A ‘live’ list of energy conservation Measures, ranging from short term, no cost, to long term large investments

Energy Conservation Oppertunites /Measures Register										
ID	Name	Fuel	Description	Energy Saved / Year (kWh)	Carbon Saved / Year (tCO2)	Cost Saved / Year €)	CapEx (€)	5 Year NPV (€)	5 Year Carbon Abatement (tCO2)	MACC
H-1	Thermostat replacements	Electricity	Replace Thermostats.	655	0.21	€173	€52	€639	1.06	601.24
DX-1	Night time Cooling	Electricity	Using Cooler temperatures at night, and night tariffs for cooling.	2,514	0.82	€1,015	€0	€4,053	4.08	993.54
VSD-1	VSD Installation	Electricity	VSD on Milking Machine 3kW Motor	3,976	1.29	€708	€2,000	€827	6.45	128.17
PHE-1	PHE Optimisation	Electricity	Water to Milk Ratio in Plate Heat Exhanger (PHE)	6,639	2.15	€1,183	€0	€4,724	10.77	438.52
PHE-2	PHE Optimisation	Electricity	Insulate Heat Exchanger	1,421	0.46	€253	€500	€511	2.31	221.66
LPG-1	LPG Boiler Upgrade	Fossil Fuel	Change from Kerosene to LPG Boiler	7,820	3.09	€2,745	€4,800	€6,159	15.46	398.31
WIF-1	Evaporater Cleaning	Electricity	Weekly/Monthly Cleaning of Walk in fridges and freezers Evap units	302	0.10	€54	€0	€215	0.49	438.52
WIF-2	Walk in Fridges Seal	Electricity	Ensure seals are well maintained	1,028	0.33	€2,932	€60	€347	1.67	208.20
DHW-1	Domestic Hot Water Optimisation	Fossil Fuel	Install Aerators on each tap	1,028	0.33	€2,932	€25	€347	1.67	208.20
TAR-1	Change Supplier	Electricity	Find a Supplier that supplies cheaper Day Rate (<17.85 cent/kWh)	0	0	€394	€0	€1,572.49	0	0
MNT-1	Monitor and Targeting System	Electricity, Fossil Fuel	Install Electrical Meter and Fossil Fuel meter	5,539	1.46	€764	€2,000	€1,052.23	2.92	360
TOT	**TOTAL**	**Electricity, Fossil Fuel**	-	30,923	10.25	€13,153	€9,437	€20,447.04	46.89	3,996

This Project has received funding from the European Union’s Horizon 2020 Research and Innovation Programme under Grant Agreement N. 847034

Register of Opportunities

It is important to use a ranking system for a Register of Opportunities.

Some Common ranking methods are:

01	**Ease of undertaking**	How easily done the opportunity is.
02	**MACC**	5 year discounted Cost savings divided by 5 year Carbon savings (Helps find the most carbon efficient measure.)
03	**Simple or Discounted Pay Back Period**	Simple Payback period is cost divided by yearly cost savings, discounted pay back period takes into account the time value of money and interest rates.
04	**Cost**	Another simple method is simply arranging measures by the cost of each measure.
05	**Preference**	You decide what is best for our company.

This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N. 847034

Register of Opportunities

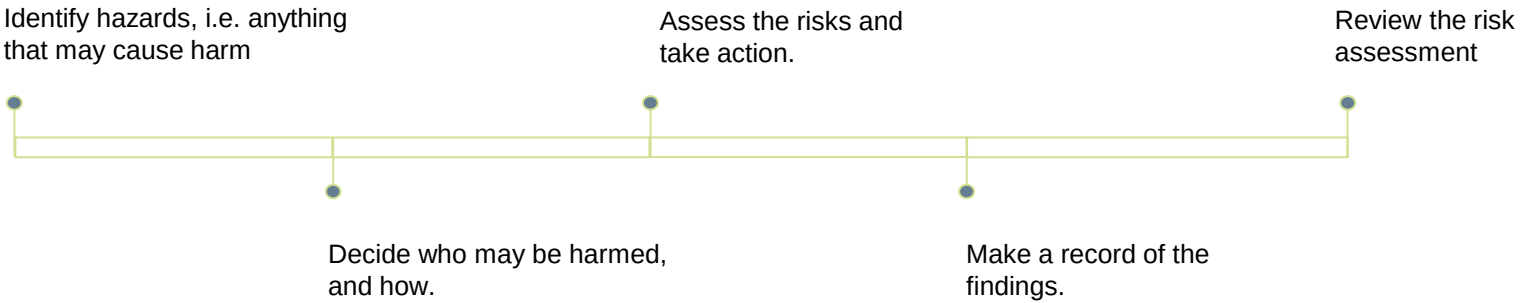
Examples:

Entity name	Description	Link
SEAI	Register of Opportunities	Link

This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N. 847034

Risk Assessment

5 Steps of Risk Assessment:



This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N. 847034

Risk Assessment

Step 1: Identify hazards, i.e. anything that may cause harm to Project.

Hazard	???	???	???	???
High Cost				
Site Disruption				
Increased Electricity Costs				
Increased Fossil Fuel Costs				
Reduced Air Quality				

This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N. 847034

Risk Assessment

Step 2: Decide who may be harmed, and how.

Hazard	Description	What is at risk?	???	???
High Cost	Solar Grants may not be available	Cost-Effectiveness		
Site Disruption	May need to shut site during install	Production		
Increased Electricity Costs	With a HP, more electricity will be used	Cost-Effectiveness		
Increased Fossil Fuel Costs	More Gas is needed for CHP	Cost-Effectiveness		
Reduced Air Quality	Enclosed burner	Staff		

This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N. 847034

Risk Assessment

Step 3: Assess the risks.

Hazard	Description	What is at risk?	Risk Level	???
High Cost	Solar Grants may not be available	Cost-Effectiveness	High	
Site Disruption	May need to shut site during install	Production	Low	
Increased Electricity Costs	With a HP, more electricity will be used	Cost-Effectiveness	Very Low	
Increased Fossil Fuel Costs	More Gas is needed for CHP	Cost-Effectiveness	High	
Reduced Air Quality	Enclosed burner	Staff	Very High	

This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N. 847034

Risk Assessment

Step 4: Make a record of the findings.

Hazard	Description	What is at risk?	Risk Level	Recorded by:
High Cost	Solar Grants may not be available	Cost-Effectiveness	High	Jo Bloggs
Site Disruption	May need to shut site during install	Production	Low	Jo Bloggs
Increased Electricity Costs	With a HP, more electricity will be used	Cost-Effectiveness	Very Low	Jo Bloggs
Increased Fossil Fuel Costs	More Gas is needed for CHP	Cost-Effectiveness	High	Jo Bloggs
Reduced Air Quality	Enclosed burner	Staff	Very High	Jo Bloggs

This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N. 847034

Risk Assessment

Step 5: Review the risk assessment

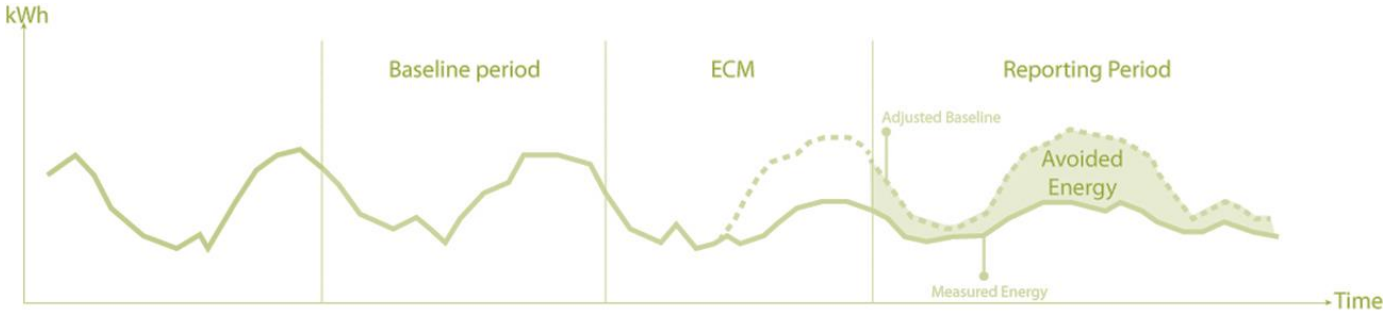
Hazard	Description	What is at risk?	Risk Level	Recorded by:	Suitable:
No Grant Funding	Solar Grants may not be available	Cost-Effectiveness	High	Jo Bloggs	✗
Site Disruption	May need to shut site during install	Production	Low	Jo Bloggs	✓
Increased Electricity Costs	With a HP, more electricity will be used	Cost-Effectiveness	Very Low	Jo Bloggs	✓
Increased Fossil Fuel Costs	More Gas is needed for CHP	Cost-Effectiveness	High	Jo Bloggs	✓
Reduced Air Quality	Enclosed burner	Staff	Very High	Jo Bloggs	✗

Staff SHOULD BE the most important! Cost-effectiveness is least important so this project should **not** go ahead!!

This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N. 847034

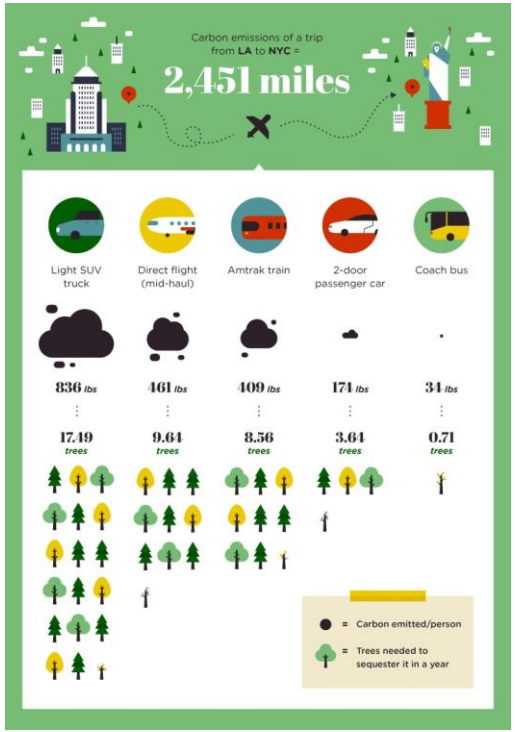
Verification

“Measurement and Verification” (M&V):
Is the process of planning, measuring, collecting and analysing data for the purpose of verifying and reporting energy savings within an individual facility resulting from the implementation of energy conservation measures (ECMs).



This Project has received funding from the European Union’s Horizon 2020 Research and Innovation Programme under Grant Agreement N. 847034

Communicating Success:



This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N. 847034

SPEEDIER

speedier-project

SpeedierProject

www.speedierproject.eu

This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N. 847034