Energy Efficiency / Retrofitting Programme

Dublin City Council Mechanical & Energy Efficiency Unit



Phase 1 of the Fabric Upgrade Programme began in June 2013 with funding from the Department of the Environment and Local Government.

Phase one of the scheme involved :

- Cavity wall fill insulation
- > 300 mm attic, Tank, pipes, insulation
- Roof /Wall ventilation
- Draught proofing
- > Lagging jackets



Dublin City Council Fabric Upgrade Programme Phase 1

Since 2013, Dublin City Council has upgraded 7,299 of its social housing units. The upgrades were carried out as part of Phase 1 of its Fabric Upgrade Programme and have resulted in significant energy and cost savings and improved comfort levels for tenants. One of the schemes - Cromcastle Court - was upgraded using Ireland's first local authority Managed Energy Services Agreement (MESA). It is estimated to achieve savings of E834,700 on maintenance and energy costs over 10 years.



€16.6 million

saved on energy bills from 2013-2016

estimated energy saved from 2013-2016

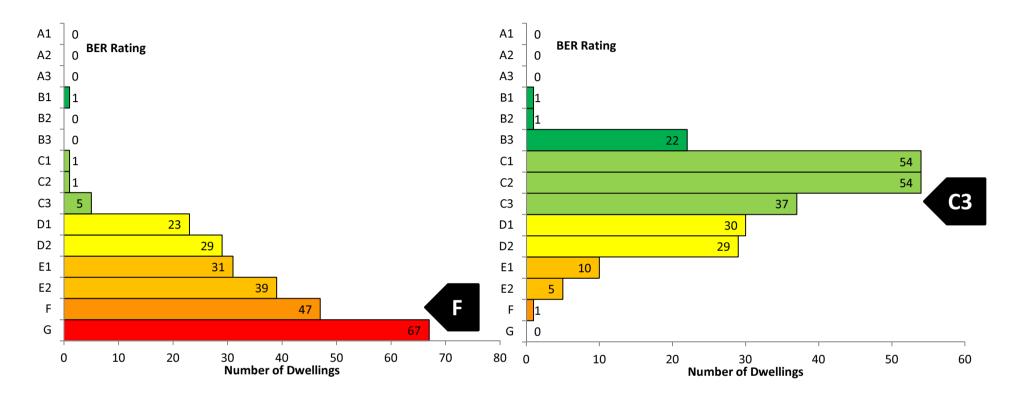
Building Energy Rating (BER) on average improved from 'F' to 'C3'*



Year	Units Upgraded	
2013	859	
2014	3612	
2015	2469	
2016	359	
TOTAL	7299	



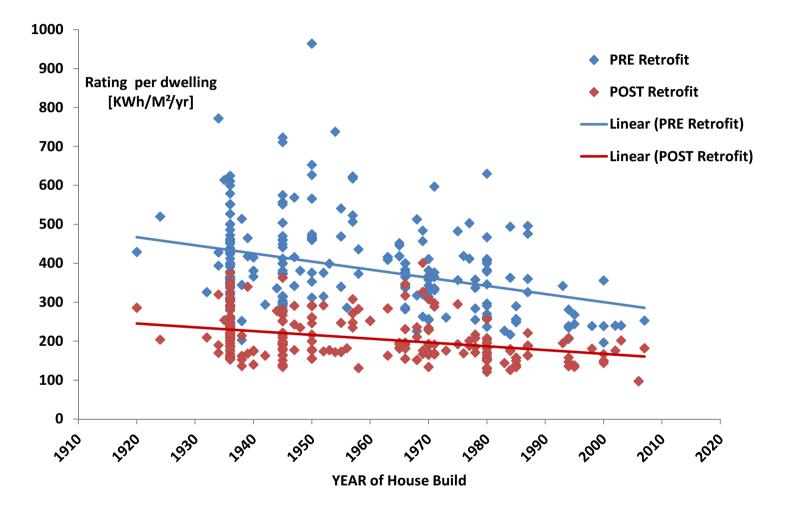
*Typical Sample of 244 properties that underwent Phase 1 Retrofitting



BEFORE RETROFITTING AFTER RETROFITTING

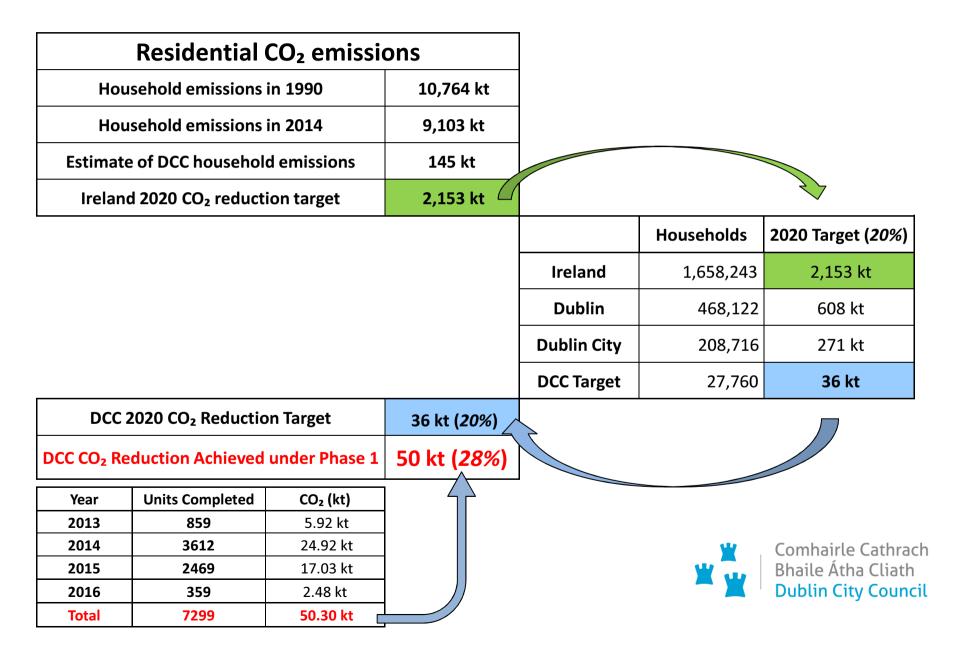


Improvement of Building Energy Rating by Retrofit and by Year of Construction





2020 CO₂ Emissions Reduction Target and Results to date



Dublin City Council Fabric Upgrade Programme Phase 1

Since 2013, Dublin City Council has upgraded 7,299 of its social housing units. The upgrades were carried out as part of Phase 1 of its Fabric Upgrade Programme and have resulted in significant energy and cost savings and improved comfort levels for tenants. One of the schemes - Cromcastle Court - was upgraded using Ireland's first local authority Managed Energy Services Agreement (MESA). It is estimated to achieve savings of €834,700 on maintenance and energy costs over 10 years.

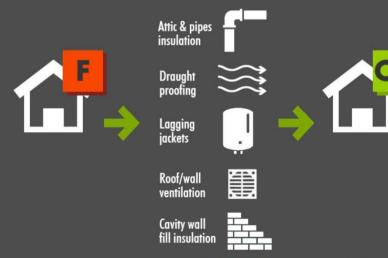


€16.6 million

saved on energy bills from 2013-2016

282,000 mWh estimated energy saved from 2013-2016

Building Energy Rating (BER) on average improved from 'F' to 'C3'*



*Taken from a typical sample of 244 properties that underwent Phase 1



Phase 2 will involve some of the same components of the upgrade in Phase 1

>300 mm attic, Tank, pipes, insulation

- Roof /Wall ventilation
- Draught proofing
- Lagging jackets

With the inclusion of

- External wall insulation
- > uPVCwindows (where required

(Approximately 9,034 units)



Average Dublin City Council Property undergoing Phase 2 Retrofit

	ENERGY EFFICENCY WORKS	
	MID TERRACE HOUSE	
YEAR	1945	
M²	66.15	

Step	Proposed Interventions	Revised Energy Value	Rating
	Pre Work Energy Value	377	E2
1	Windows, Install low e argon filled 16mm double glazing with k-glass	371	E2
2	Fit 300mm of ceiling insulation in Attic space	284	D2
3	Fit external wall insulation (include gross wall area inc windows)	193	C2
	Post Work Energy Value	193	C2

