

CLONBURRIS | Dublin, Ireland



Size: 250 acres, 500,000 residents 25,000 apartments

Dates: 2009-2021

Team: Project Manager, Bo Aronsson

Description: Clonburris is a suburb mixed use community located in Dublin. The development will contain eight unique neighborhoods with parks, schools, and other services

Intent: Connect the city communities, create a vibrant city center, promote an easy way to live sustainably

S

Sit+Place

GOALS: (Food) NA ; (Habitat+Biodiversity) NA ; (Transport) Reduce dependence on cars, 83% of commuting trips w/o cars

STRATEGIES: (Food) Community garden plots ; (Habitat+Biodiversity) Diverse park system that includes different ecosystems, bioswales ; (Transport) Two new train stations will service Clonburris, walkable, residents live near amenities, bike infrastructure, car shares.

W

Water

GOALS: NA

STRATEGIES: Storm water managed through bioswales, ponds and permeable pavers, greywater collection for non-potable uses, commercial areas will use oil interceptors, screening, filtration and water storage for reuse of grey water.

E

Energy

GOALS: Mandatory renewable energy: 30% on site renewable, 30% off site renewable.

STRATEGIES: On and off site renewable energy. District heating, 80% of residential floorspace equipped with space heating and hot water from district heating, 5% meet passive house standard, ban on clothing dryers. A committee will monitor compliance with GHG indicators and continuously improve the community, energy efficiency standards.

E

Equity

Percentage of affordable units: 15%

GOALS: Designated Sustainable Development Zone to develop Regional Planning Guidelines.

STRATEGIES: Minimum daylighting requirements, community amenities: central plaza, library, community spaces, cafe, shopping, parks, gyms, walkable from public transportation, 5 schools with walkable commutes.

M

Materials

GOALS: (Materials) 80% of materials meet an A rating from BRE's Green Guide, 80% of on site timber reclaimed or reused ; (Waste) 10% of construction material should be recycled or reused.

STRATEGIES: (Materials) Specified recycled materials for construction, use of LCAs and environmental indicators to select materials based on reducing impacts ; (Waste) Recycling of greywater.

SUSTAINABILITY MATRIX

		STANDARD	GOOD	BETTER	LIVING COMMUNITY	REGENERATIVE
S Site+Place	Limits to growth		Developed for density/limits growth, contains open space			
	Urban Ag		Some community garden space			
	Habitat Exchange			Constructed wetlands, land set aside, native plantings, 25% + of developable space is undeveloped		
	Human Powered Living			Walkable streets, bicycle infrastructure, public transit links, car sharing, EV charging stations, easy access to services		
W Water	Net Positive Water			Greywater purification & reuse, on-site treatment of some blackwater, constructed wetlands, stormwater prevention (green-roofs & impermeable surfaces)		
E Energy	Net Positive Energy		2030 standards goal of efficiency, some reduction goals for energy & carbon, some renewable energy, solar PV ready			
H Health+Happiness	Civilized Environment		Community has some groups to promote social connections			
	Healthy Neighborhood Design			Access to walking and bike trails connecting amenities, parks, recreation areas		
	Biophilic Environment		Development includes park & has some landscaping			
	Resilient Community Connections	Nothing considered/reported				
M Materials	Living Material Plan			Rigorous material selection standards, material plan made available to public		
	Embodied Carbon Footprint			Material selection requirements, proxy standards for reducing CO2 in material selection and construction on-going energy monitoring		
	Net Positive Waste			Reduction in construction waste, material selection for recycled/recyclable materials, innovative waste collection facilities, waste to energy		
	Human Scale and Humane Places		Project contains some elements of human-scaled design			
E Equity	Universal Access to Nature and Place		Access to parks, promotes sense of place, some daylighting strategies for buildings			
	Universal Access to Community Services			Diversity of services available in community easily accessible by different modes of transportation,		
	Equitable Investment	No contribution to charity				
B Beauty	Beauty and Spirit Inspiration and Education			Unit metering, education on sustainable practices, opportunities for community engagement		

SOURCES:

<https://zoningthegardenstate.wordpress.com/2012/12/04/clonburris-dublins-first-eco-city/>
<http://www.sdcc.ie/sites/default/files/publications/clonburris-information-booklet-2016.pdf>
<https://prezi.com/ifqjsquoyox/clonburris/>
http://www.uobabylon.edu.iq/sustainability/files/Sustainable_city.pdf
<http://www.mosart.ie/urban-design/urban-public-realm-2-clonburris-6.html>