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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



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.

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
En	ergy

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.

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.



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.



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SUSTAINABILITY MATRIX

			STANDARD	GOOD	BETTER	LIVING COMMUNITY	REGENERATIVE
S Site+Place	Γ	Limits to growth Urban Ag		Developed for density/limits growth, contains open space Some community garden space]		
		Habitat Exchange			Constructed wetlands, land set aside, native plantings, 25% + of developable space is undeveloped		
		Human Powered Living			Walkable streets, bicy- cle infrastructure, public transit links, car sharing, EV charging stations, easy access to services		
Water	С	Net Positive Water			Greywater purification & reuse, on-site treatement of some blackwater, constructed wetlands, stormwater prevention (green-roofs & impermiable surfaces)		
E Energy	С	Net Positive Energy		2030 standards goal of efficiency, some reduction goals for energy & carbon, some renewable energy, solar PV ready			
Health+ Happiness	Г	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 8 has some landscaping	k .		
		Resilient Community Connections	Nothing considered/re	eported	-		
M Materials	Г	Living Material Plan			Rigorous material selection standards, material plan made available to public		
		Embodied Carbon Footprint			Material selection require- ments, 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	Γ	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 avail- able in community easily ac- cessible by different modes of transportation,		
		Equitable Investment	No contibution to cha	arity			
B_		Beauty and Spirit			Unit metering education		
Beauty		Inspiration and 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/ifqjsquoyojx/clonburris/ http://www.uobabylon.edu.iq/sustainabilty/files/Sustainable_city.pdf http://www.mosart.ie/urban-design/urban-public-realm-2-clonburris-6.html



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