Promoting Energy Efficiency in Land Use Planning

Session 5 - Workshop: Group 2

People
5-10

Time
1 hour

0 HOW TO USE THIS MURAL

This exercise aims to provide participants with an opportunity to use the learned design principles in a concrete project by providing their design of a fictive community subdivision project.

INSTRUCTION:

1. Choose a role you would like to play during the workshop:

a. Developer / Builder
b. Mayor or Councillor
c. Planner/ Coordinator
d. Civil Engineer
e. CAO of the Municipality
[illegible]nt role for a targeted project

Names:
a. Developer = Jennifer
b. Mayor/ Councillor = Eddie; Sean
c. Planner / Coordinator = Harpal
d. Civil Eng = Ron
e. CAO = Paul
f. Other = Eng. Dev. Brian; Pres. Neigh. Ass. Alexander; Banker Perri-Lynn (Daniel); Engaged citizen - Susan

development fee waved for the extra stuff

2. [illegible]jectives:

Make Jennifer alot of Money Phase it in so Jennifer can afford it	Maximum tax for minimum Municipal expenditure	Consideration of Close to Future BI	Ensure protection of municipal assets.	Zoning / Regulations
Build Housing and maximize profits	Support our transit system	Maximization of densities, mixed use planning	Exceed current Energy Standards Target	Net Zero energy
Build some very affordable housing (no parking required)	no impacts to neighbours (stormwater, shade, traffic, ect...)	Return on investment for the Town, property taxation and affordability	Have Council on our side throughout project	All ages
				secondary suites

3. Using Mural, identify the conservation area to protect, negotiate where the houses are going to be built, road design, etc.
Note: Everything inside the solid red line can be used.

4. Take Notes!

5. Share key highlights during plenary.

walkability

small corner store on edge of development | Fun stuff for kids to do on the site | Smaller housing / affordable housing | Legal processes | Resilience in utilities for disaster prevention

Memory Helper and Steps

Item to consider	Questions to ask
1. Objectives of project	Who should be targeted ? (Focus group(s)) a. Age consideration b. Neighbours contacts c. Necessary amenities d. Energy efficient amenities / facilities
2. Design for Houses	1. Consider constraints & Open space 2. Energy efficiency (Ex. Solar orientation) 3. Density (Ex. Single-family, Duplexes, Apt. / Condos) 4. Find location
3. Road and connectivity	How wide? 1. Right-of-way 2. Asphalt portion Access roads needed? Who is responsible?
4. Stormwater management	What Best Management Practices can be used?
5. Sewage system	On-site or cluster system? Where should it be located?

1 MAP

Add locations to the map using the graphics outlined in the legend

3 ADDITIONAL NOTES:

Apartments = young professional students, or lower income

Detailed info:
12 Houses x 2 = 24 Units15
Mixed x 4 = 60 Units6
Apartment Bld x 12= 72 Units7
Townhouses = 7 Units5
Commercial = 5 Units

2 MAIN TOOLS

List of icons and their meanings

- H — Single Family Homes (20 m)
- T — Townhouses (15m)
- A1, A2, A3, A4, A5 — Apartment/Condos (40m)
- C — Commercial units (20 m)
- Roads — *Keep in mind: 10 - 15 m wide*
- Urban agriculture/ green space / rain garden

OPTIONAL TOOLS

- Stormwater pond
- Trees

1 Energy Efficiency
- Efficiency Retrofit Opportunities
- Z1 — Net - Zero / Carbon Neutral Building

2 Waste & Renewable Heat
- W1 — Waste Heat Sources
- R1 — Renewable Heat Sources

3 Renewable Power
- S1 — Renewable Electricity Site For example:
  - Solar Panel
  - Wind mill
- B1 — Combined Heat and Power (e.g. B = Biomass)

4 Transportation
- EV Charging Station or Destination
- Transit Network and Transit Stop / Stations
- Active Transit and Connectivity
- Bridge

4 LEGAL

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