



Bogdan Balagura

Head of Tetiiv Hromada



Viktor Riabokin

Co-founder of Vid Sertsya Budova NGO

Co-Founder of American Financial Investment Academy (Ukraine)

Since 2017, Viktor has worked in various C-level roles for the development of investment communities in Ukraine.

In his professional life Viktor Riabokin focuses on projects that have a pronounced social impact component, aimed at transforming Ukraine and perception of the country in the world.



Hanna Bila

Co-founder of Vid Sertsya Budova NGO, Head of Construction, Founder of Highland (Ukraine)

Hanna has more than 15 years of experience in architecture and construction of residential and commercial projects. Among her landmark projects are the Olzhychi cottage town, the building of the national TV channel Inter, and a private villa on 30 hectares.



Harrison Fraker, FAIA

Dean Emeritus, College of Environmental Design, UC Berkeley

Professor of the Graduate School, UC Berkeley

Professor Emeritus of Architecture and Urban Design, Department of Architecture

Former Chair Energy Resources Group (ERG) University of California, Berkeley

2014 AIA/ACSA Topaz Medallion Recipient



Karen Murray, RA, LEED GA

Partner, Architect|Urban Designer Van Meter Williams Pollack

An architect and urban designer, Karen provides leadership and direction for projects ranging in scale from the neighborhood to the individual building, providing implementable design solutions, feasibility studies and building design for projects in the San Francisco Bay Area and beyond.

Critic and Lecturer Cal Poly San Francisco Urban Studio

TETIIV ECO NEIGHBORHOOD

A new model for rebuilding Ukraine – Sustainability, Self Sufficiency and Resilience for a Better Life

- Housing

– 500 new home in a mix of housing types
- Safety

– Bomb shelter for 1500 people with water and storage
- Food

– Allotment gardens and orchard on site

- Transportation

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 - Walkable Streets, bike access and mixed use
 - Shuttle to Tetiiv and transportation
- Energy Efficiency

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 - Super Insulated, Low air infiltration, Passive Solar, Daylighting, Shading
 - Efficient lighting, Appliances, HVAC
- Renewable Energy Supply

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 - Cogeneration(CHP) powered by bio-gas from agricultural waste
- Water

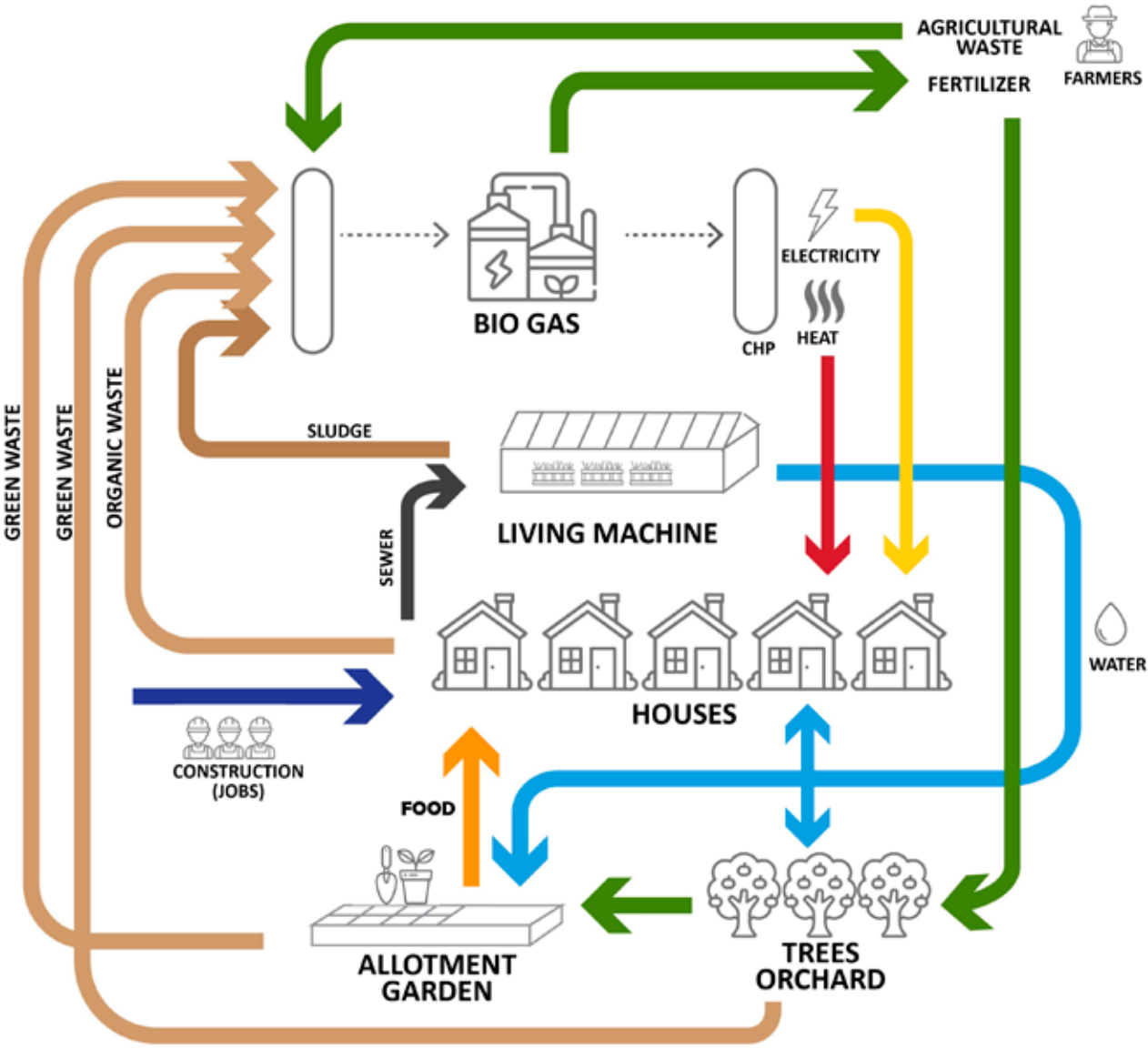
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 - Water supply from on-site wells, High efficiency fixtures
 - Waste Water: Treatment And Reuse (“Living Machines”)
 - Storm Water Retention, Treatment, Reuse (Bio Swales)
- Waste

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 - Recycling: solid waste, organic waste composting and biodigestion
- Micro Climate

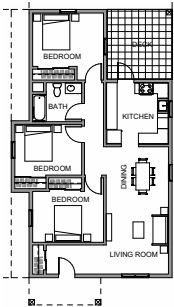
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 - Urban Section: approx 2,000 street trees
- Materials

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 - Local available and manufactured panels and units

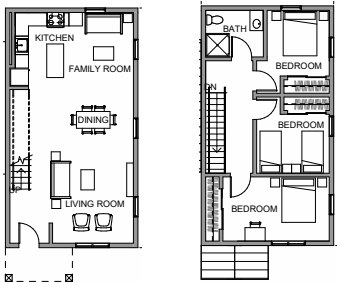
Circular Exchange Economy –



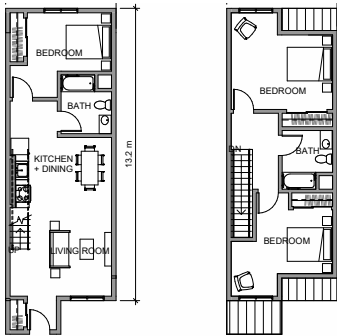
Missing Middle Housing is a range of house-scale buildings with multiple units—compatible in scale and form with detached single-family homes—located in a walkable neighborhood.



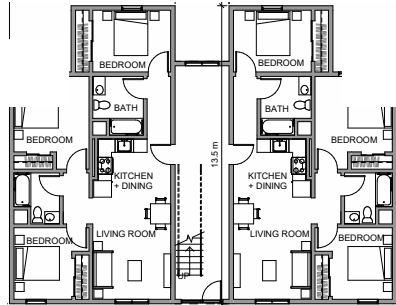
SINGLE STORY SINGLE FAMILY HOME



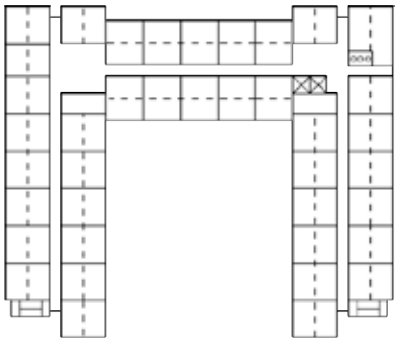
TWO STORY SINGLE FAMILY HOME



TWO STORY ROW HOUSES

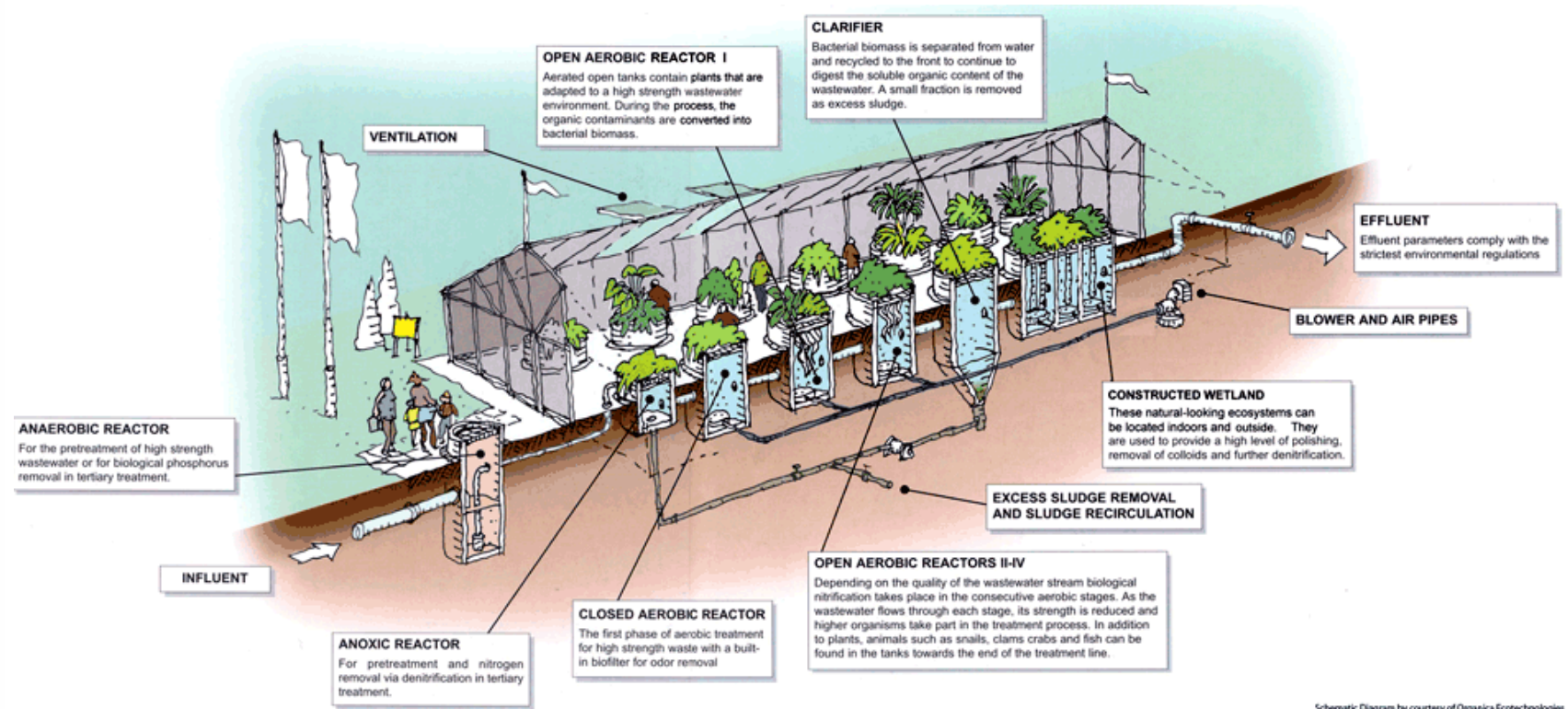
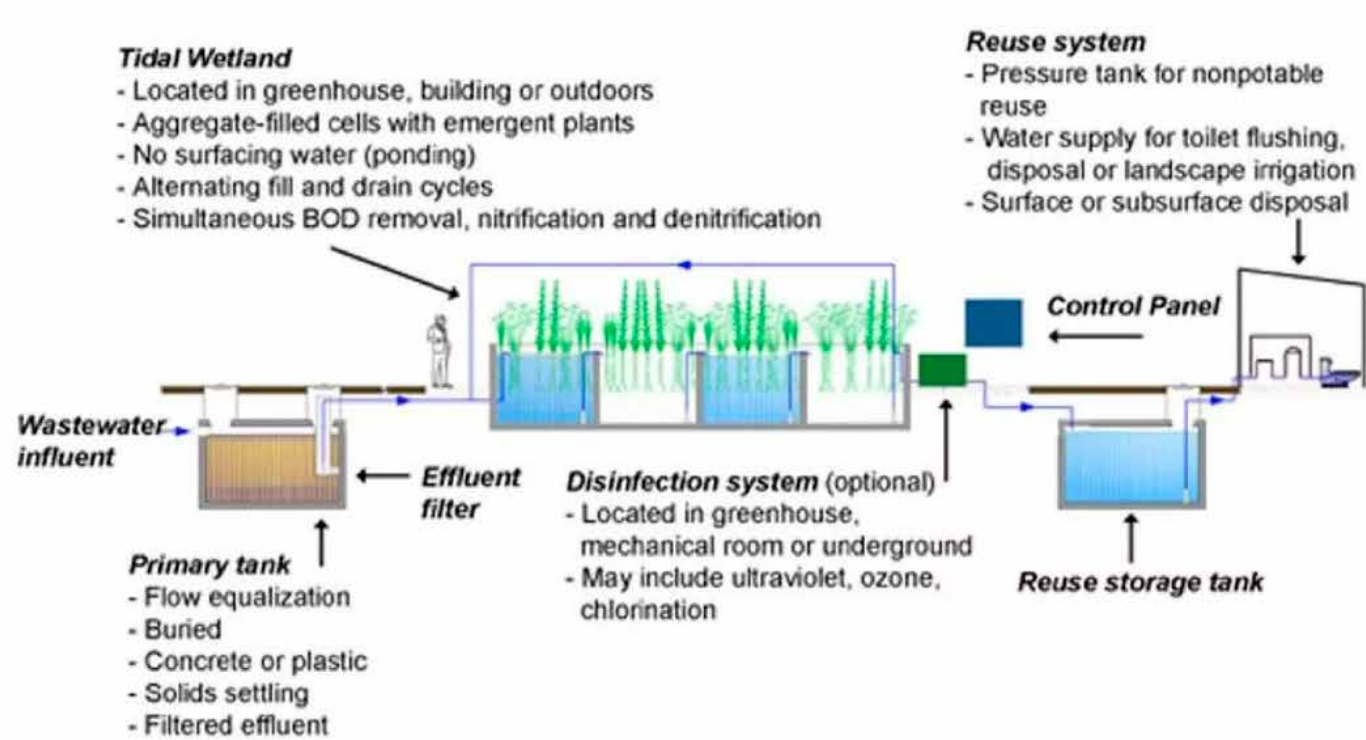


STACKED FLATS

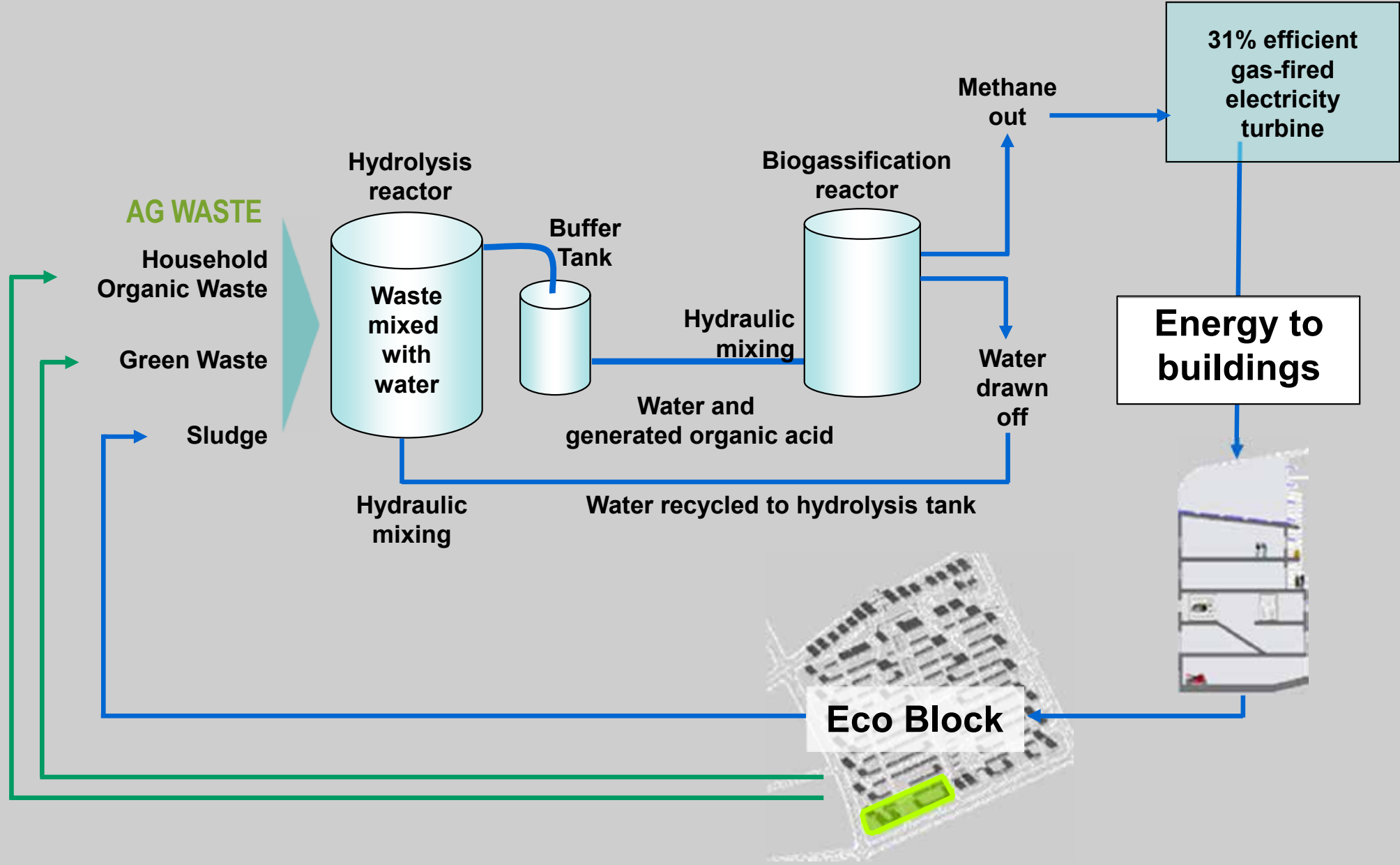


CO-HOUSING



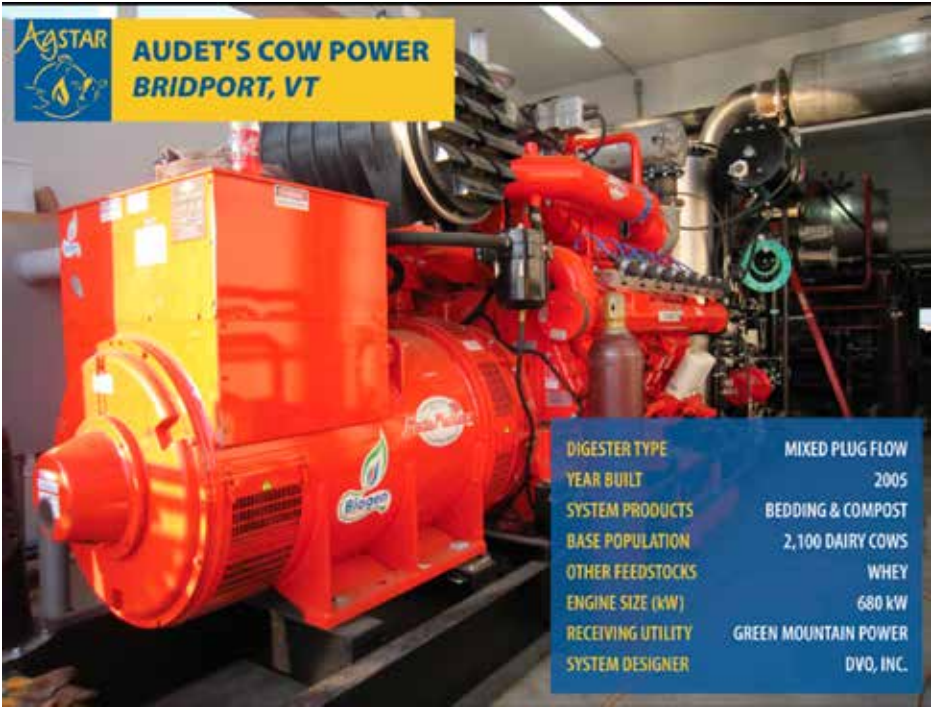
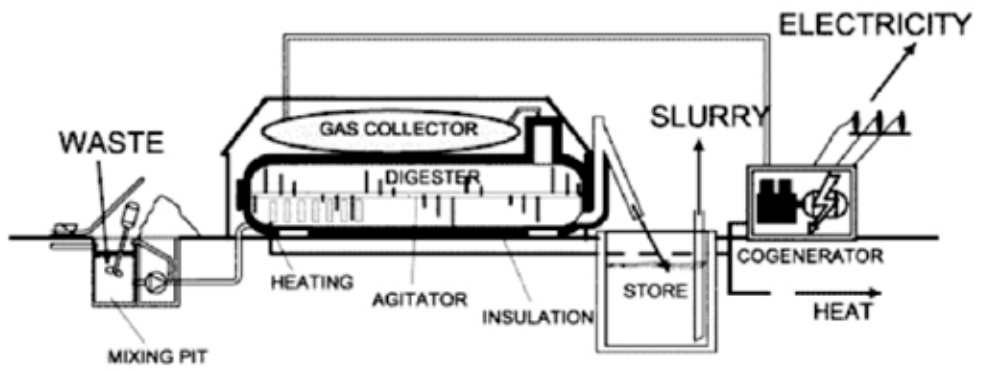


Waste to Energy Anaerobic Digester

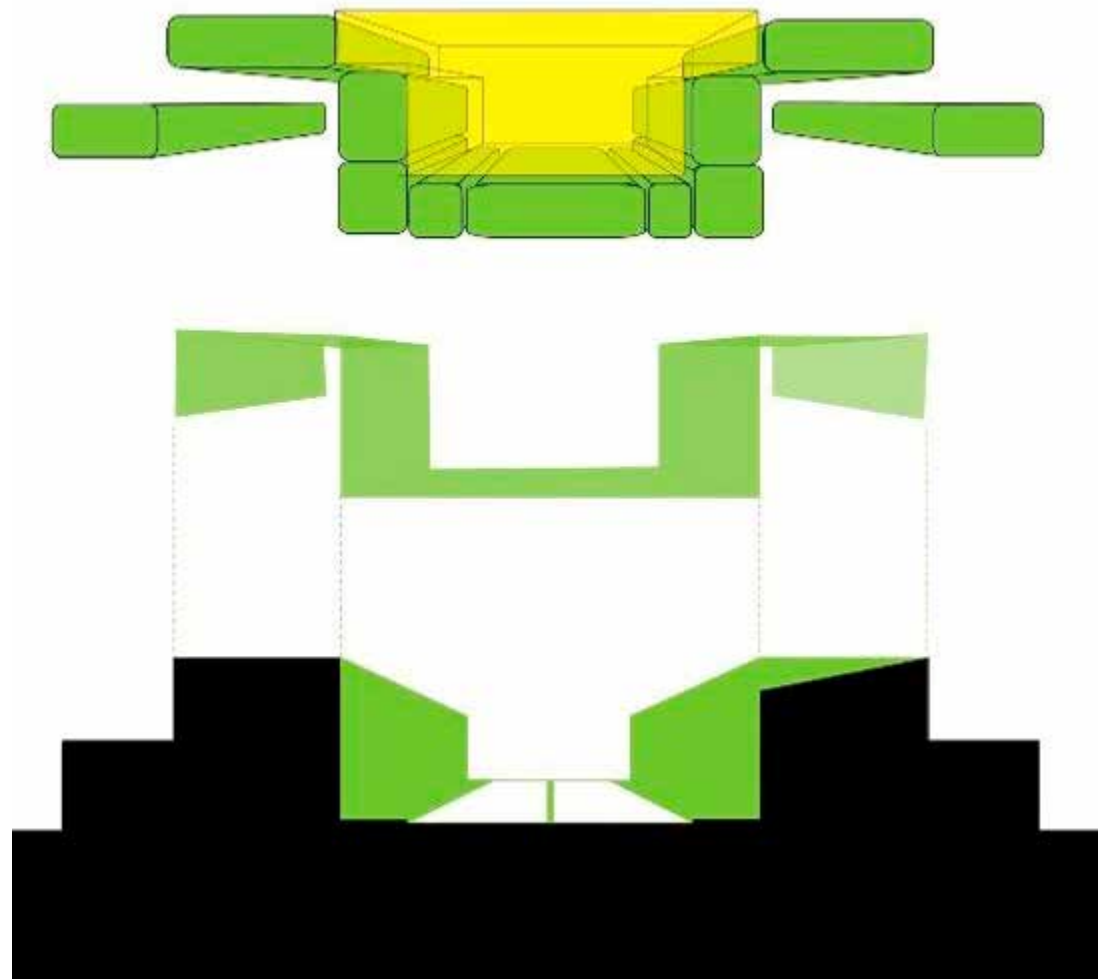


©2008 by the Regents of the University of California "EcoBlock" Neighborhoods Harrison Fraker, FAIA Dean College of Environmental Design, UC Berkeley

Concrete digester with integrated plastic gas-holder^[2]



[HTTPS://WWW.EPA.GOV/AGSTAR](https://www.epa.gov/agstar)

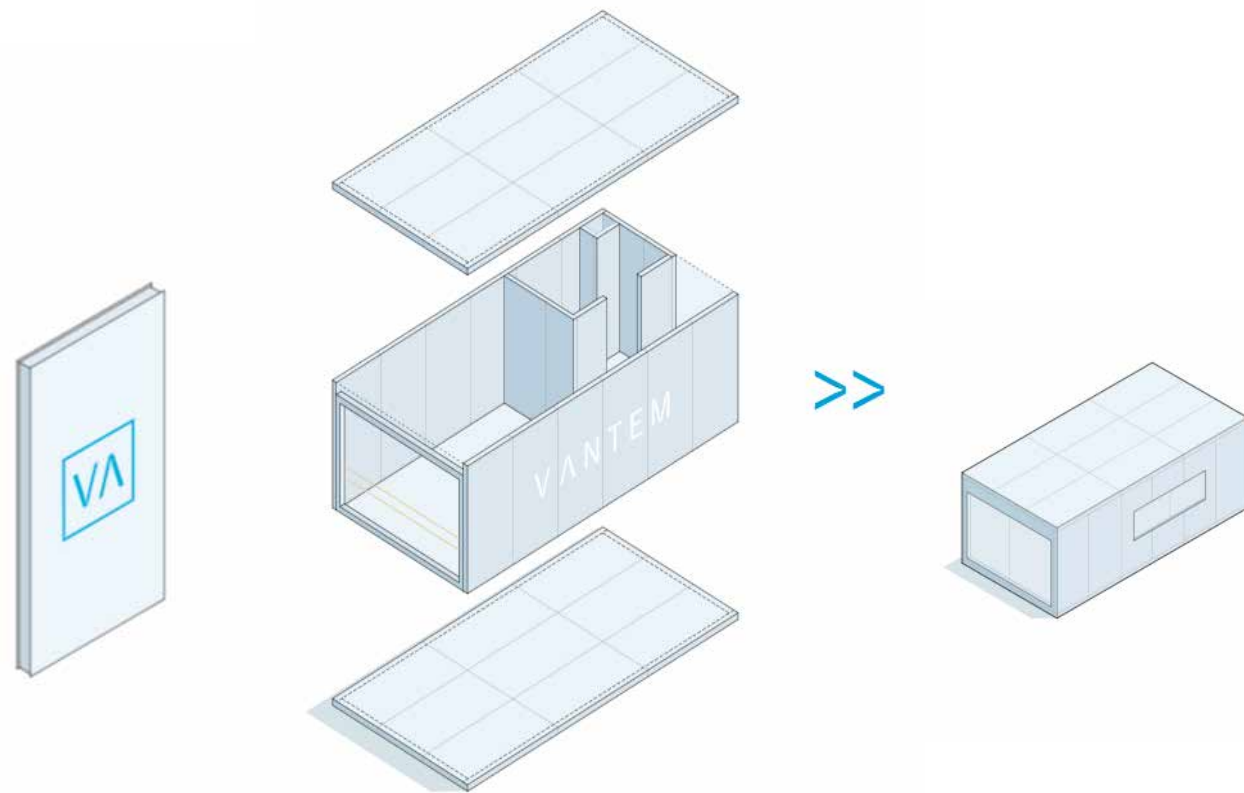


The Urban Section

Demands building envelopes and public space be designed as an integrated whole

- rethink all surfaces and systems.
- Building envelopes as environmental mediators
- Discharge waste heat into public space
- Reflect sunlight into public space increasing UHI





TETIIV ECO NEIGHBORHOOD MANUFACTURED MODULAR CONSTRUCTION

TETIIV, UKRAINE | OCTOBER 13, 2024







TETIIV ECO NEIGHBORHOOD MASTER PLAN: PHASE I

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TETIV ECO NEIGHBORHOOD STREET VIEW

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TETIV ECO NEIGHBORHOOD BIRD'S EYE VIEW: FULL BUILD-OUT

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COST ESTIMATE

A (141 units) 900ye with finishing - 11,5 mln

B (180 units 70 sq m each) 800ye with finishing - 10 mln

C (36 units 100 sq m each) 1100ye with finishing - 4 mln

D (99 units 35 sq m each + common space 700 sq m + bombshelter 1300 sq m) 5500 sq m with 1100ye per sq m - 6 mln

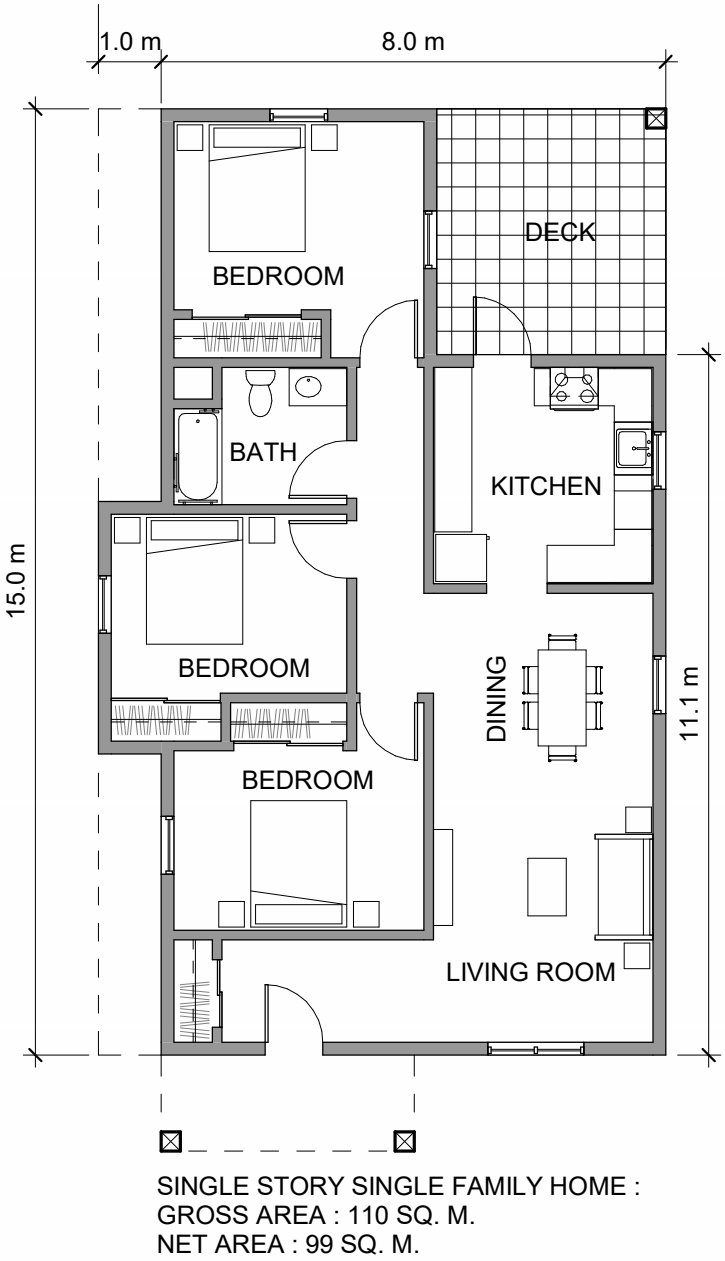
E (36 units 90 sq m each) 900ye with finishing - 2,9 mln

Total units - 492 units

Green space - 200,000ye

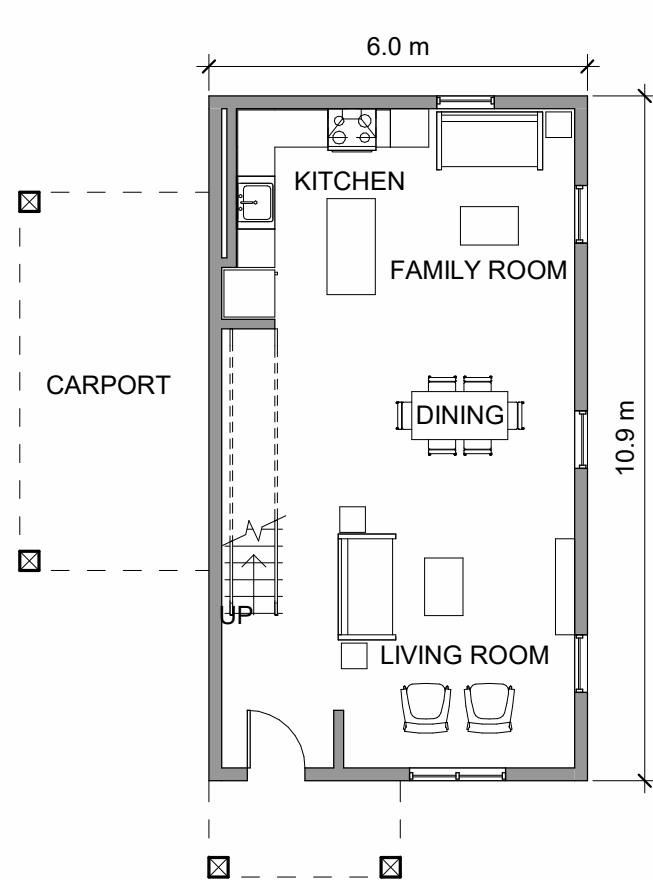
TOTAL COST - 35,6 mln*

* - Cost of "Living machine" and cogeneration required to be additionally calculated



EXAMPLE IMAGE

LEVEL 1 FLOOR PLAN



TWO STORY SINGLE FAMILY HOME :
LEVEL 1
GROSS AREA : 65 SQ. M.
NET AREA : 58 SQ. M.

LEVEL 1 FLOOR PLAN

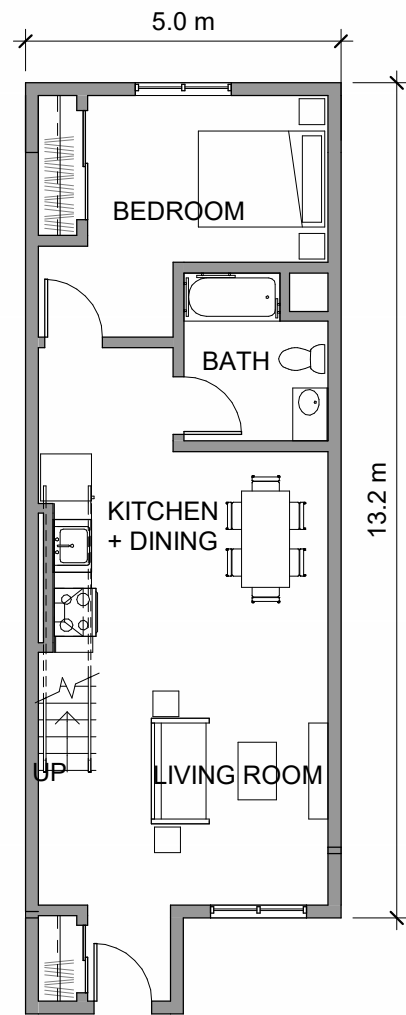


TWO STORY SINGLE FAMILY HOME :
LEVEL 2
GROSS AREA : 65 SQ. M.
NET AREA : 58 SQ. M.

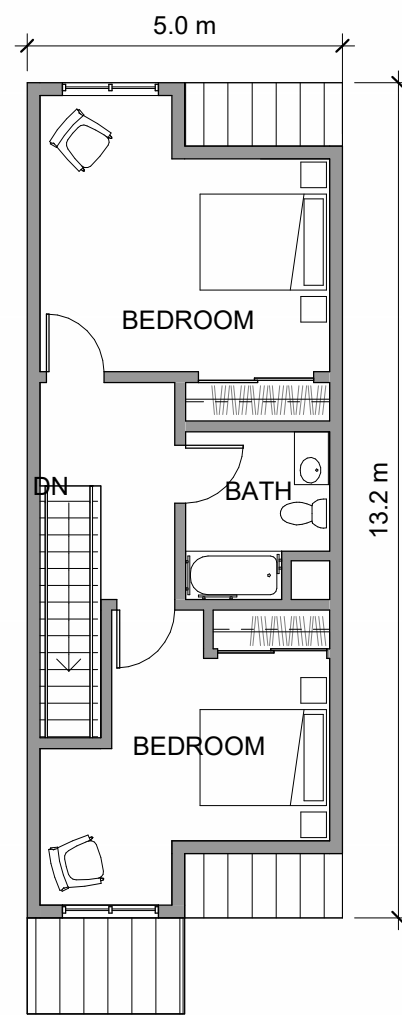
LEVEL 2 FLOOR PLAN



EXAMPLE IMAGE FROM LOCKING PARKLANDS, UK



ROW HOUSE
GROSS AREA: 128 SQ.M
NET AREA: 119 SQ. M



LEVEL 1 FLOOR PLAN

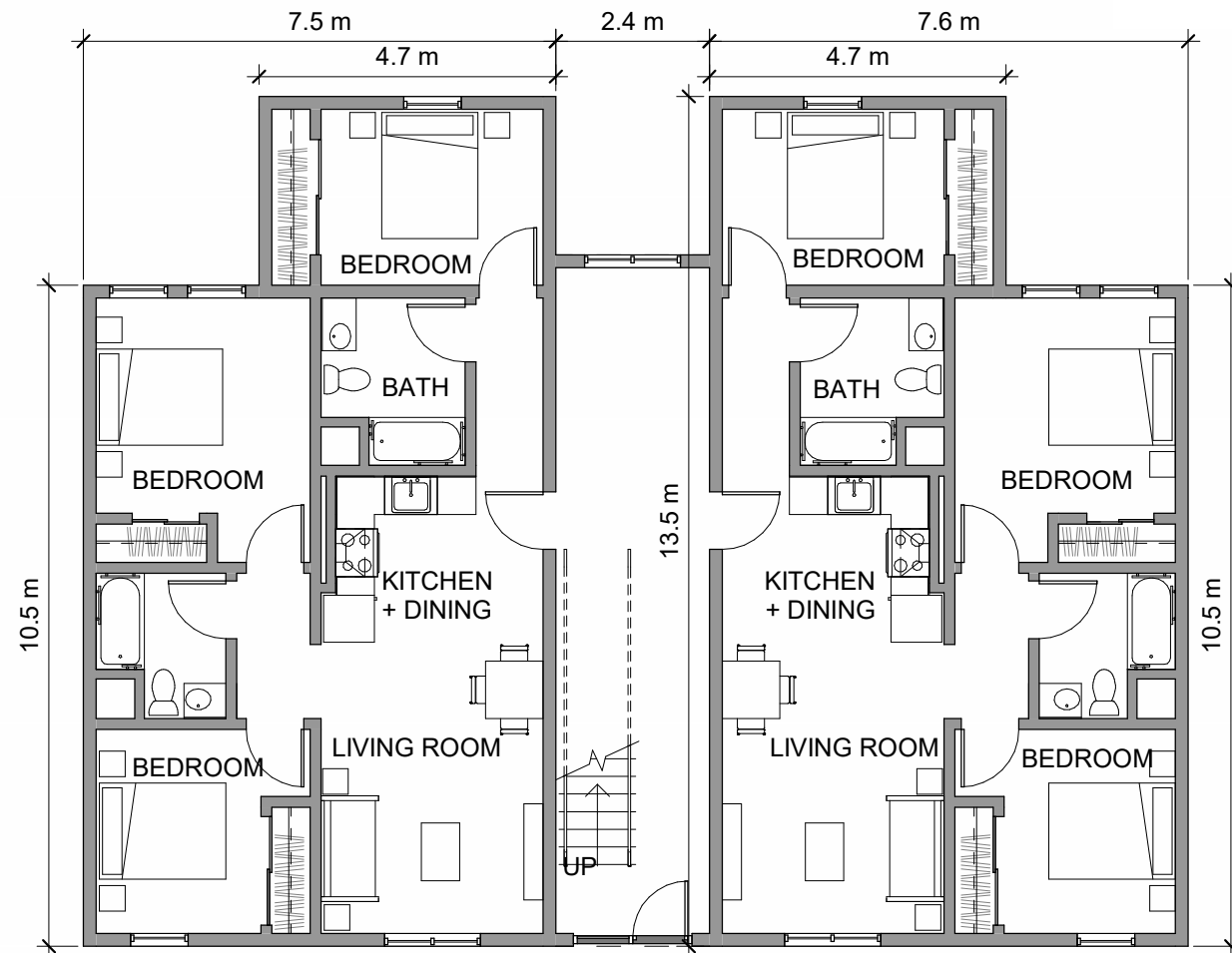
LEVEL 2 FLOOR PLAN



EXAMPLE IMAGE FROM LOCKING PARKLANDS, UK

TETIV ECO NEIGHBORHOOD BUILDING PLANS | TWO STORY ROW HOUSES

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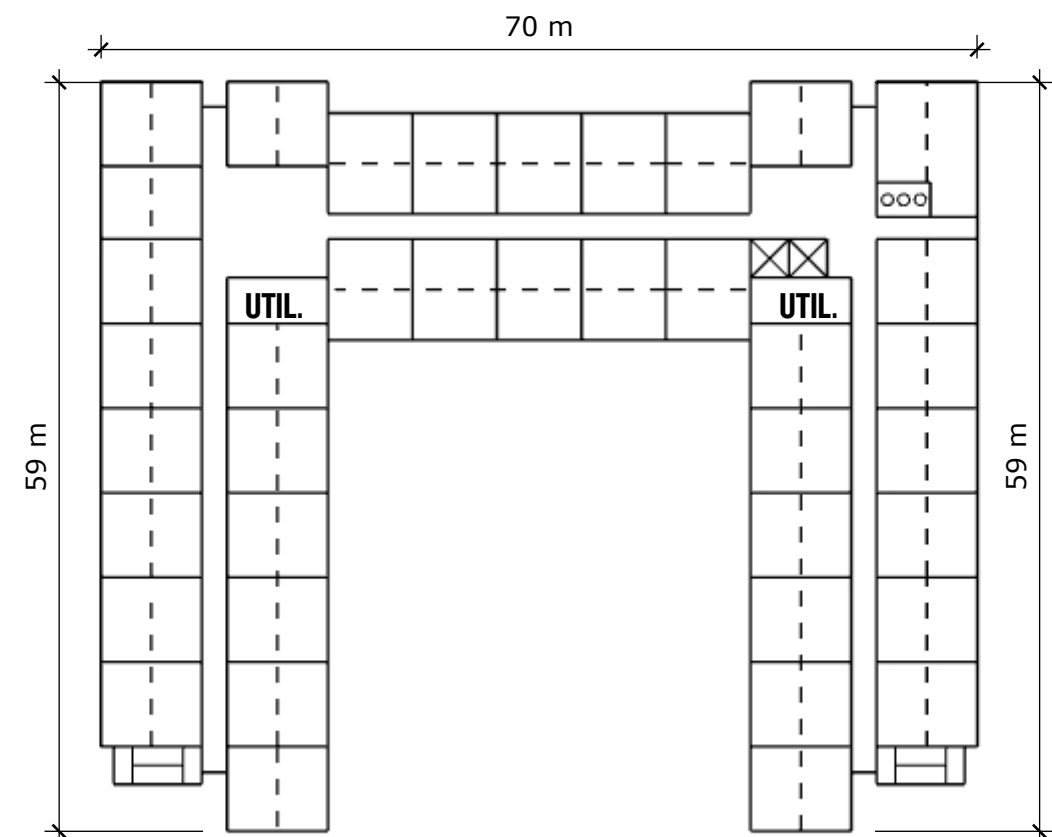


LEVEL 1 & 2 FLOOR PLAN TYP.

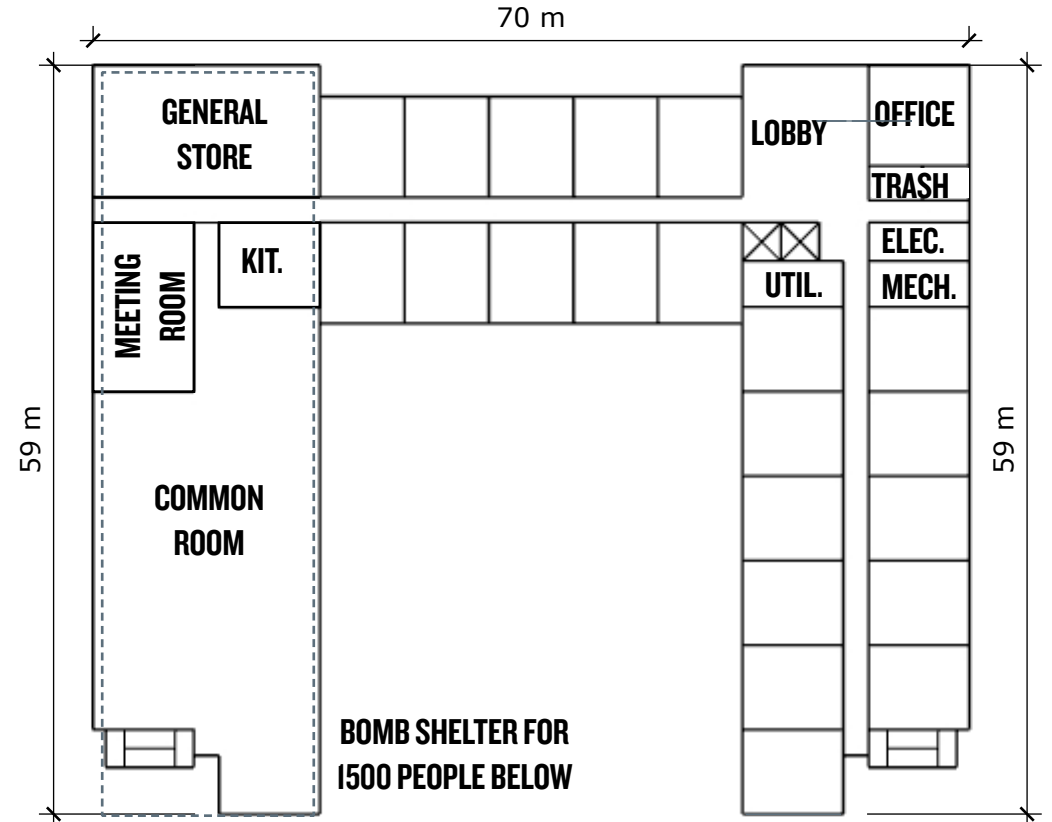
STACKED FLATS : TWO 3-BR FLATS ON TWO LEVELS
 UNIT GROSS AREA : 93 SQ. M.
 UNIT NET AREA : 84 SQ. M.



EXAMPLE IMAGE FROM LOCKING PARKLANDS, UK



LEVEL 2 AND LEVEL 3 (TOWNHOUSE W/ BEDROOM ABOVE)



GROUND FLOOR PLAN



EXAMPLE IMAGE FROM LOCKING PARKLANDS, UK

UNIT MIX STATS:

UNIT SUMMARY	1br	2br	Unit Count
Ground	21	-	21
Floor 2	39	-	39
Floor 3	-	39	39
TOTAL	60	39	99
Unit Mix	61%	39%	100%



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