

Benny Farm

Integrated Urbanism Studio
Exercise 2 Precedent < > Typology < Morphology

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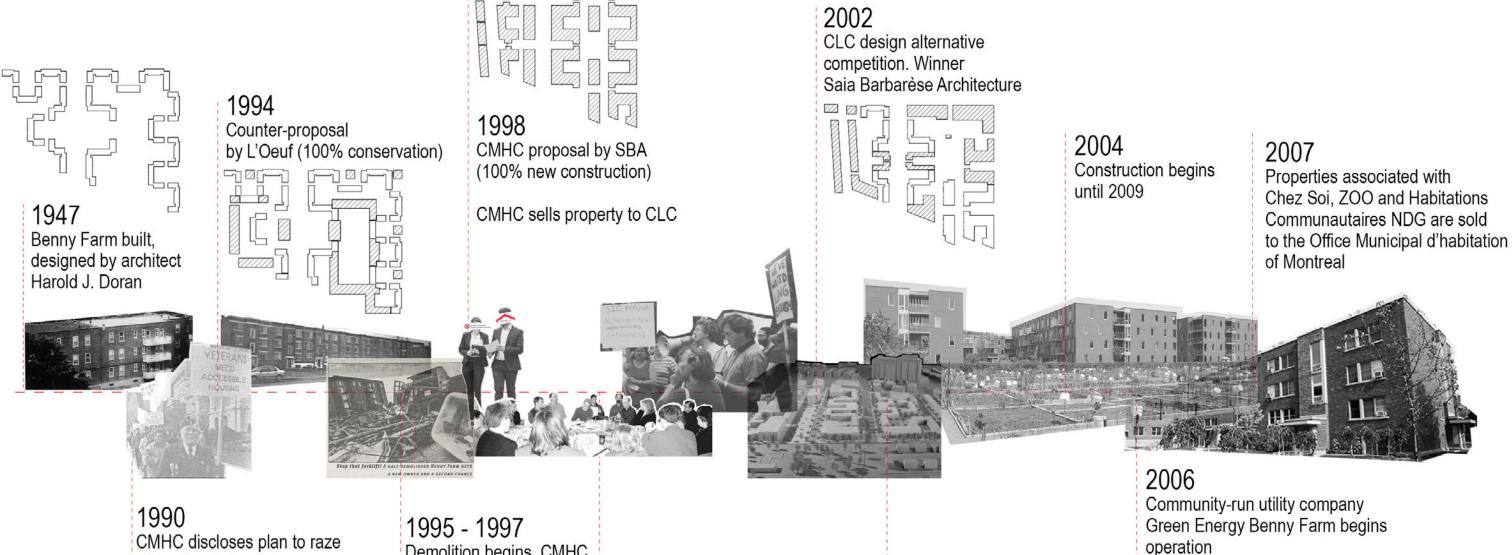
Benny Farm, Montreal, QC

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# TIMELINE

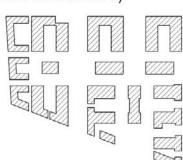
History of Benny Farm



1991

CMHC proposal by Gauthier Guité Daoust Architectes (100% new construction)

site, relocate tenants



Demolition begins, CMHC to relocate residents

> 1999 Round Table organized by CLC

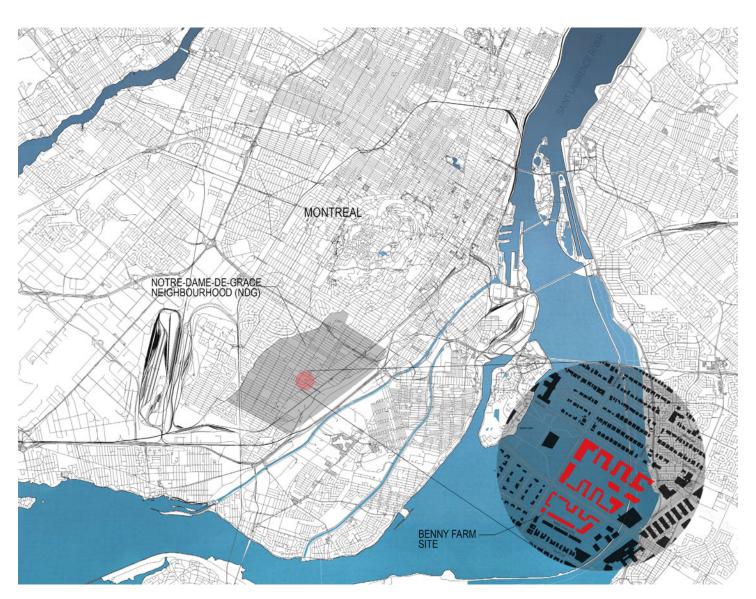
2000 Zone of Opportunity (ZOO) Co-op founded

2003

Development plan presented to the NDG Residents. Final version validaded on Sept. 10th 2003

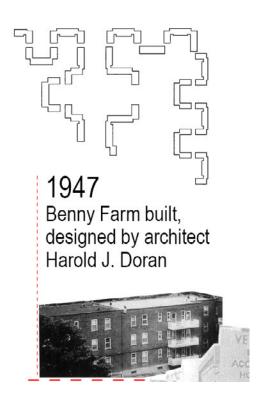
# Introduction

Benny Farm was built in 1947 by the government of Canada for the returning veterans of WW2. However, in the early 1990s, with an aging population and decaying buildings, the Central Mortgage and Housing Corporation proposed the demolition of Benny Farm. This generated a mobilization the community surrounding Benny Farm who were strongly against the relocalization of veterans and the demolition of the buildings. A long debate ensued between different parties involved in the design of the final redevelopment project, including citizens, veterans and housing activist.



Montreal Map NDG With Benny Farm Site

# Early History





Canadian Welfare State

To response to social unrest around housing issues after the war but also coincided with the formation of the Canadian welfare state and a period that many historians consider pivotal in terms of Canadian housing policy. Under the postwar government of Prime Minister Louis St. Laurent, public housing, federal hospital grants and assistance programs for disabled and blind persons were initiated.

Communit Living

The historical roots of the project went further back: it exemplified the evolution of ideas about neighbourhood design and worker's housing that were rooted in the early 20th century.

Social Unrest

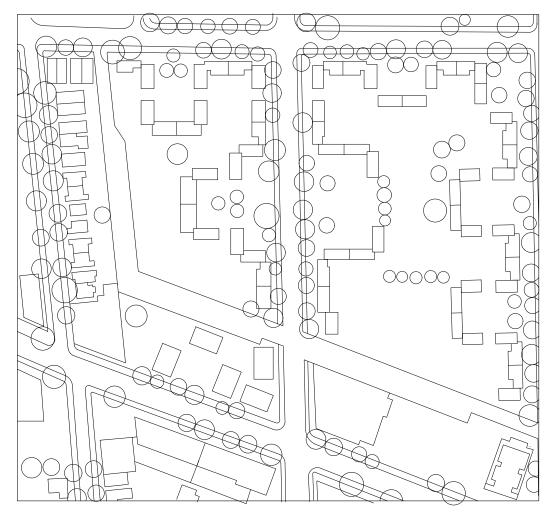
the impetus to build veterans' housing stemmed fear of repeating the social unrest that had occurred after World War I. Housing problems had been an important component of the turbulence that had culminated in the Winnipeg strike and the sympathy strikes across Canada in 1919.

Industry Boom

The war brought the return of prosperity. The growth had different sources. The automobile industry was partially responsible, as the number of automobiles produced annually quadrupled between 1946 and 1955. A housing boom, stimulated in part by easily affordable mortgages for returning servicemen, fueled the expansion. The major focus of this first period was economic growth through the creation of construction jobs.

Returning Veterans

Immediately after World War II a large supply of housing was needed quickly for returning veterans, newly formed families, and an expanding urban population fostered by natural increase, migration, and immigration.



Site Plan of Benny Farm



Birdeye's view of Benny Farm (mage source: Pearl, Daniel, and Daniel Wentz. Community-Inspired Housing in Canada: Benny Farm and Rosemont. Holcim Foundation, 2014.)



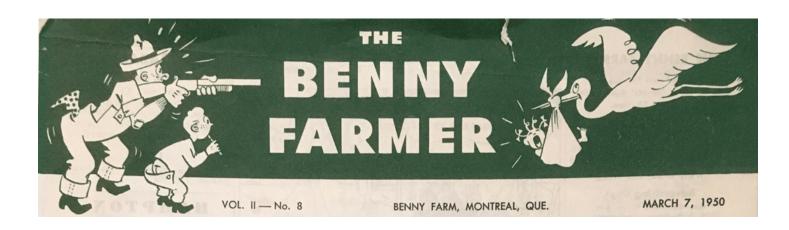
Perspective view of Benny Farm
(image source: Pearl, Daniel, and Daniel Wentz. Community-Inspired Housing in Canada: Benny Farm and Rosemont. Holcim Foundation, 2014.)



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Plan of some Units in Benny Farm

(image source: LIN, Pei-Yi. LIN, Pei-Yi (9927171), Linpeiyi.tripod.com/u3/bennyfarm.html.)











For a time period of over 40 years, Benny Farm has been the home to a tight-connection community of families, with people sharing similar life experience and backgrounds. There had been more than 1500 kids at Benny Farm at one time, joining and participating in the Farm's sports teams, dancing recitals, and community evente, which had been captured in "The Benny Farmer," the Farms's very own newspaper.

- "Nothing happened on Benny Farm without someone seeing it, our children had constant watch dogs."
- -Iris Merle Church, Benny Farm resident, Benny Farm Memory Clinic interview, April 4, 2005



Collage of Life at Benny Farm from 1950s-1980s

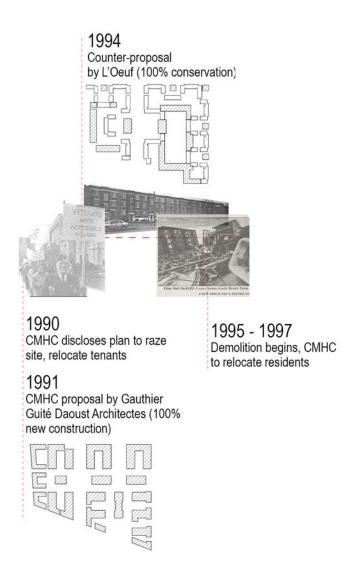
During a time period of more than 10 years from 1950 to 1960, there was anumber of more than 1000 children growing happily in this tight-connected community and this community had also been home to families who share similar life experices and backgrounds.

- "Back in the day, there were a lot of mothers at home, there were a lot of kids. Things were split up by blocks, there were committees for sports and activities in each."
- -Helen Bolton Guy, Head of Benny Farm Tenants' Association, Benny Farm Memory Clinic interview, April 4, 2005



However, by the late 1980s, there was a large proporation of aging population in the community and the averge age for the residents in Benny Farm had risen to almost 70 years. It has graudally become an increasingly difficult problem for the elderly residents living in the community, with a lot of buildings vacated and left to deteriorate.

# Early Development



"Demolition in this case would be wasteful and environmentally destructive. These buildings should continue to serve the purpose of social housing."
-Lucia Kowaluk, Coordinator of the NDG Community Council The Gazette, April 16, 1992



"We are very afraid that the master plan will change the low-density residential fabric of the neighborhood."
-Jean Martin, president of Neighbors of Benny Farm, The Gazette, June 18, 1992

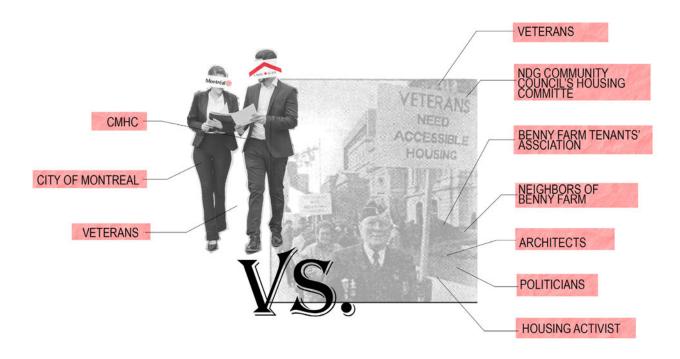
Collage of Protest on Early Development of Benny Farm

Pearl, Daniel and Wentz, Daniel. "Community-inspired housing in Canada", Lafarge Holcim Foundation, 2014, https://src.lafargeholcim-foundation.org/dnl/4b638d42-a390-492e-bfb3-23d481dab507/CommunityHousingCanada-lowres.pd "Benny Farm from the Ground Up", NDG History Workshop, http://atelierhistoirendg.ca/

The debate between CMHC and opposition groups reached the media.

The city was under constant pressure to develop affordable housing in Montreal because of a housing boom and many people agreed that Benny Farm would be the ideal site.

The community also wanted affordable housing to address the 2000 elderly and low-income people of the NDG neighborhood on waiting lists for affordable housing.

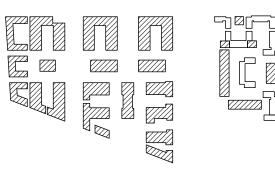


Collage of Actors

This diagram shows the actors involved in the debate following the proposition of demolition by the CMHC.

Tension was rising between a group of veteran who agreed with the proposition and the opposite group who were against it.

Many people were involved including architect, politicians and housing activists.



CMHC proposal Gauthier Guité

Daoust Architects

100% New construction

1992

1994

Counter project (L'OEUF)

100% Conservation

1994

CMHC proposal Gauthier Guité Daoust Architects

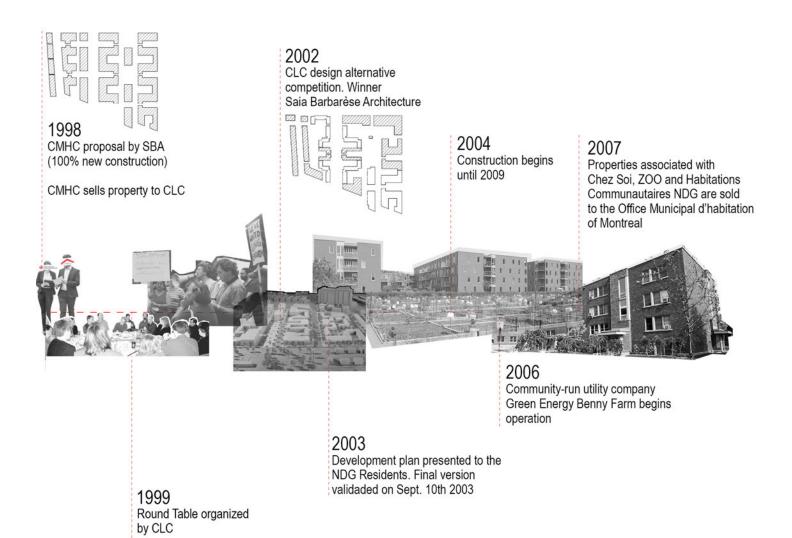
19

36% Conservation

Redrawn Diagram of the new proposition and counter proposition

(reference-Pearl, Daniel and Wentz, Daniel. "Community-inspired housing in Canada", Lafarge Holcim Foundation, 2014, https://src.lafargeholcim-foundation.org/dni/4bk384/2-a399-492e-bits3-23448idab507/CommunityHousingCanada-lowres.pdf

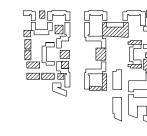
# Redevelopment

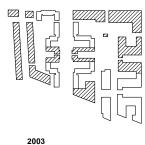


2000

Zone of Opportunity (ZOO) Co-op founded







CMHC proposal Saïa Barbarèse Architects

100% New conservation

FFCBF proposal L'OEUF

CLC design alternatives L'OEUF 88% Conservation

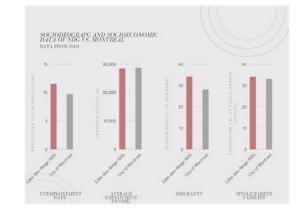
Masterplan Saïa Barbarèse Topouzanov Architects 34% Conservation

Redrawn Diagram of the new proposition and counter proposition

# MONTREAL SOUTH SHORE

#### Dala IIUIII 2001, Gily OI WOIIIIEai

	NDG	MONTREAL		
POPULATION	117 650 PEOPLE 6.5% OF MTL	1 812 720 PEOPLE		
UNEMPLOYEMENT RATE (%)	9.6 %	9.2 %		
AVERAGE INCOME (\$)	28 387 \$	28 726 \$		
AVERAGE GROSS RENT (\$)	581 \$	557\$		
TENANTS SPENDING 30%+ OF THEIR INCOME ON HOUSING COSTS (\$)	38.8 %	37.1 %		
SINGLE-PARENT FAMILIES (%)	34 %	33 %		
IMMIGRANTS (%)	34 %	26 %		



#### Redrawn Montreal Map NDG With Data

(reference "Annuaire statistique de l'acquiomération de Montréal" City of Montreal 2007 http://wille.montreal oc.cz/pls/nontal/docs/PAGE/MTI\_STATS\_FR/MFDIA/DOCUMENTS/ANNUAIRE%/20STATISTIQUE\_SEPTIOT PDE

These socio-demographic and socio-economic data were extracted from the 2001 Statistical Yearbook of the Agglomeration of Montreal.

It shows that a great percentage of people in the Notre-Dame-de-Grace neighborhood are staying in non-affordable housing, more than the average of the city of Montreal. It also shows that the average income is lower than the average of Montreal but its rent is more expensive.

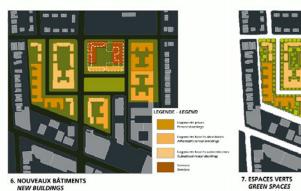
The need of affordable housing can be derived from this analysis.

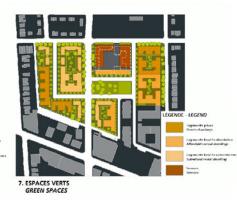
#### Competition Entry by Atelier BRAQ and Atelier IN SITU

(image source"Benny Farm Competition", Canadian Competition Catalogue, https://www.ccc.umontreal.ca/fiche\_concours.php?lang=en&cld=125)

#### Competition Entry by Atelier BRAQ and Atelier IN SITU





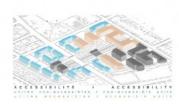


Competition Entry by Daoust Lestage inc





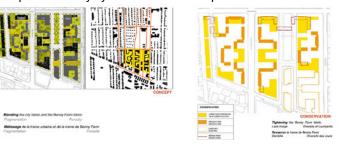




#### Competition Entry by L'Oeuf



#### Competition Entry by Saia Barbaresse Topouzanov Architecture

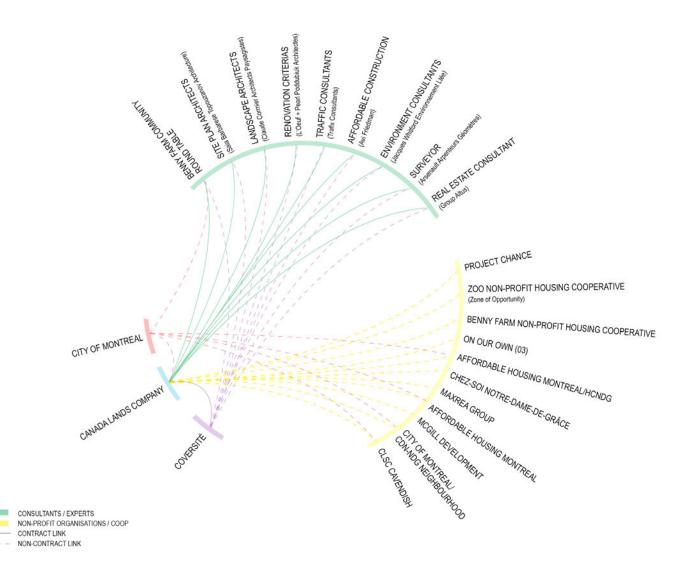






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Actors Diagram

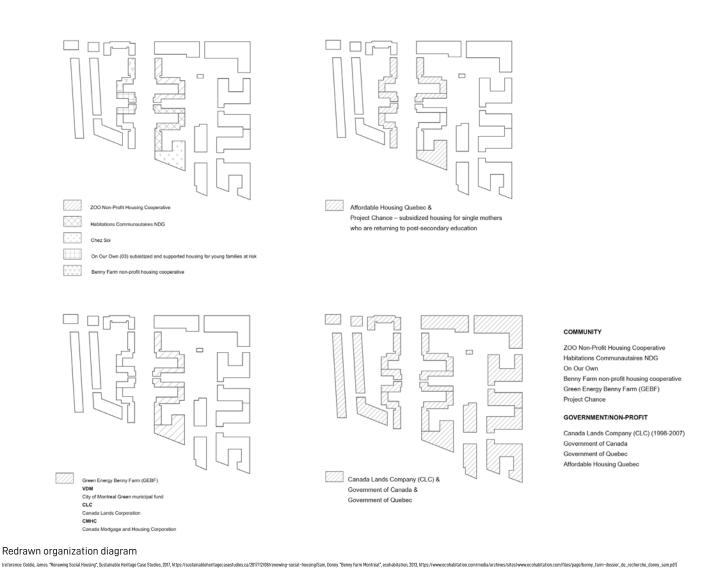


This diagram depicts the different actors involved in the redevelopment project of Benny Farm, after the land was sold from CMHC to CLC.

In green are the specialist and consultants involved such as architect, engineers etc.

In yellow are the different non-profit organization and Co-op group

#### Organizations



1.Coopérative d'Habitation ZOO (Zone of Opportunity): Non-Profit Housing Cooperative, build housing for young families

2.Habitations Communautaires NDG (Collaboration Société d'Habitation et de Développment de Montrél): community-housing organization, instrumental in providing affordable housing in Montreal's west end

3.Les Maisons Transitionnelles "03"- On Our Own: support young parents in difficulty in the achievement of their goals by providing them with affordable housing and opportunities for personal, educational and parental growth

4.Coopérative d'Habitation Benny Farm: Benny Farm non-profit housing cooperative

5.Green Energy Benny Farm (GEBF): non-profit, community, run utility owns and manages the energy infrastructure as well as continued re-investment in sustainable construction for this infrastructure

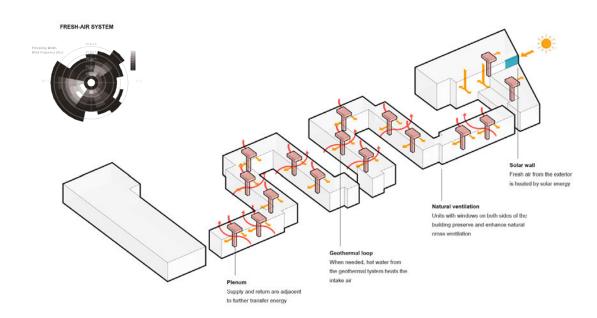
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6.Project Chance: subsidized housing for single mothers who are returning to post-secondary education

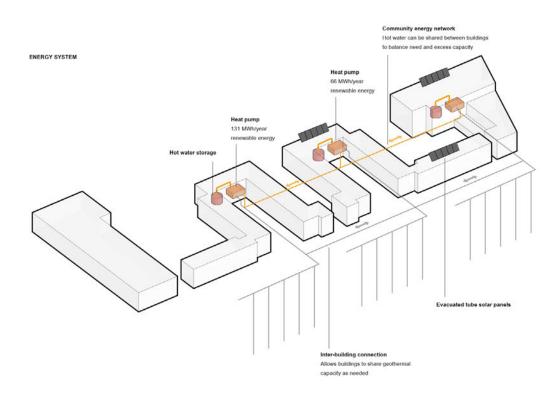
#### **Green Energy**

#### Redrawn green energy axonometric

(reference: "Greening the Infrastructure at Benny Farm" https://src.lafargeholcim-foundation.org/dnl/e1d884a9-e78f-4925-882d-99a79e2731d7/NA05\_FHZOM\_small.pi

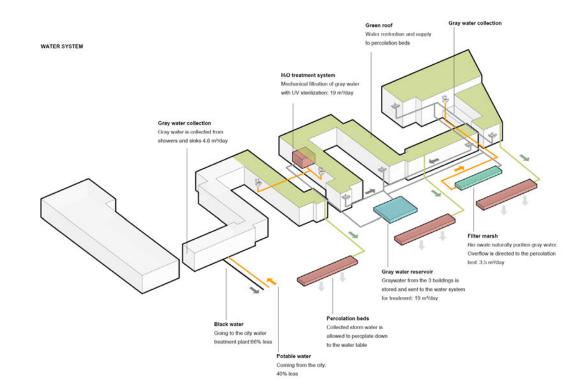


The buildings use high-efficiency fiberglass windows with operable sashes for natural ventilation, supplemented by mechanical systems that integrate supply air preheating using solar panels and exhaust air heat recovery through energy recovery ventilators.



In the building, 75% of the energy doesn't depend on external infrastructure.

It is generated and converted on-site by renewable resources of geothermal and solar energy, and distributed through a shared infrastructure

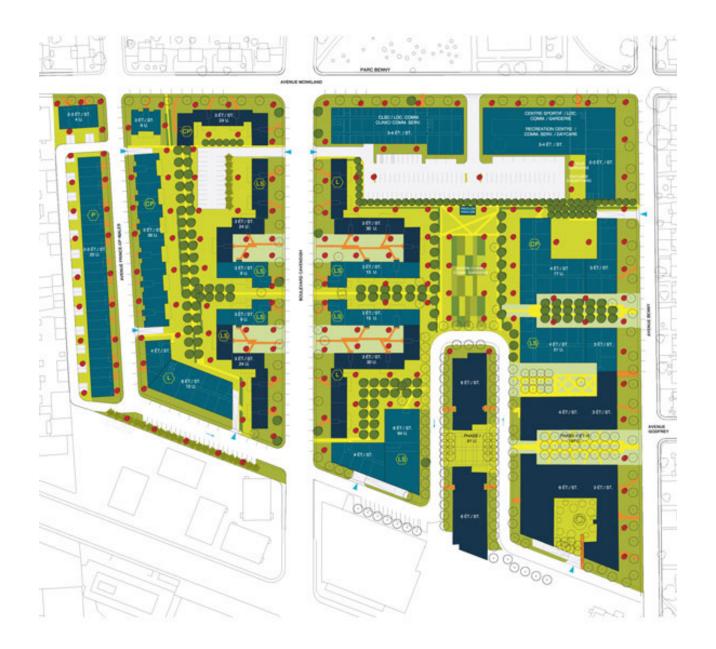


Traditional water management indiscriminately diverts rainwater, grey water and sanitary waste to treatment facilities. This project attached great importance to water quality and adopts the method of collecting rainwater and gray water, reusing it on the site and returning to the groundwater level.



It sets a precedent for large-scale on-site masonry recycling and blurs the boundaries between old and new buildings and materials.

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Site plan

(image source: Sam, Donny, "Benny Farm Montréal", ecohabitation, 2013, https://www.ecohabitation.com/media/archives/sites/www.ecohabitation.com/files/page/benny\_farm-dossier\_de\_recherche\_donny\_sam.pd

Plans

(image source: Sam, Donny: "Benny Farm Montréal", ecohabitation, 2013, https://www.ecohabitation.com/media/archives/sites/www.ecohabitation.com/files/page/benny\_farm-dossier\_de\_recherche\_donny\_sam.pd

#### Conclusion

#### Theoretical and Intellectual Background

#### Housing need in post war period

Benny Farm was built in 1947 for returning veterans of World War II, and it is the model of Canadian housing and social policy. Part of the initial development was a response to housing issues, but it also coincided with the formation of the Canadian welfare state. Many historians believe that the period was crucial to Canadian housing policy. The housing problem has always been an important part of the turmoil, which eventually led to the Winnipeg strike and the sympathy strikes across Canada in 1919. The project illustrated the evolution of ideas about neighborhood design and worker's housing that originated in the early 20th century, and also alleviated people's concerns about the social unrest after the war.

The main focus of the first period was to increase economic growth by increasing construction jobs. After World War II, there was a need for large amount of housing, provided to returning veterans, newly formed families and immigrant population.

# 1946 ~ 1947 - Who will build housing for veterans?

Federal Government asks private enterprise to get involved in solving veterans' housing crisis and sells the land to Housing Enterprises of Canada Limited, a consortium of insurance companies.

HECL builds a series of veterans' housing complexes across Canada and among those, Benny Farm stands out as a model for post-war housing.

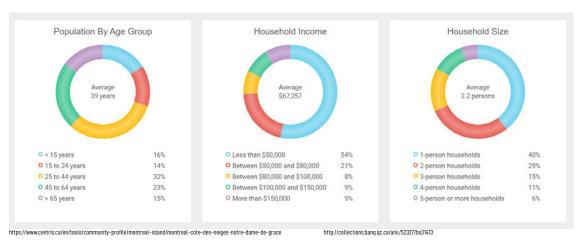
Characteristics Time	Development 1945-68	Development 1968-78	Development 1978-88
Economic Conditions	reconstruction prosperity	prosperity inflation	recession recovery
Major Demographic Force	returning veterans	"baby boom" & smaller families	aging population
Overall Goals	economic development	social reform	financial restraint
Market Philosophy	filtering & infrastructure support, planned urban landscape	intervention, - participation, & flexibility	reduced intervention
Housing Goals	industrial development, suburban development, physical planning	community development, income integration, demand support	supply suppor
Delivery Instruments	direct federal loans and grants	cost-sharing & direct subsidies, & loans	private loans cost-shared subsidies government delivery
intergovernmental	federal leadership	trilevel consultation, "province-building"	provincia leadership
Outcomes	large projects "corporate city" subsidies	widespread uncontrolled devolution	administrative overlap

#### Sustainable housing

Sustainable energy was not part of the first list of objective when designing the redevelopment of Benny Farm. It came at a later stage when the stakeholders decided that Benny Farm would not only be an icon of social equity but also of environmental compatibility. The original idea of garden-city of the 1947 construction would be taken to the next level in this redevelopment. This also came from the architects vision were sustainable housing addresses not only social and economical aspects but environmental ones as well. This new objective shaped the density of the new buildings as well as the landscape throughout the site in order to attain a balance between urban density and green space. The incorporation of many green energy systems also ensued from this objective, creating a pioneer co-op group formed by the community to manage these new sustainable structures called the Green Energy Benny Farm (GEBF).

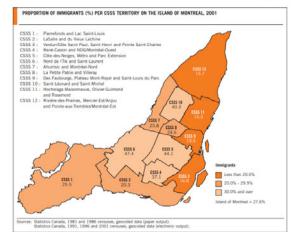
#### social housing

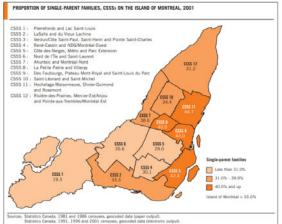
The usual purpose of social housing is to provide affordable housing. In response to the housing shortage, a large number of standardized housing has been built. The policy had confidence in the efficiency of the private market and the ability of government planners to effectively guide growth. The main feature of this stage was to provide owner- occupied housing for middle-income families. After the middle-income groups moved out, cheaper housing would be available for lower-income groups. These programs had little flexibility to regional or provincial needs.











VARIABLE NAME	MONTRÉAL CMA	MONTRÉAL ISLAND	SAINT- HENRI	LOWER NDG	PLATEAU
Average household income \$ - 1995 (inflation adjusted to 2005 \$)	54 131	49 583	31 338	34 637	38 705
Average household income \$ - 2005	63 038	57 738	39 340	39 413	49 295
% change, 1996-2006	16.5	16.4	25.5	13.8	27.4
Average personal income \$ 1995 (inflation adjusted to 2005 \$)	29 892	28 607	19 509	22 526	25 377
Average personal income \$ 2005	34 196	32 946	24 127	24 898	32 290
% change, 1996-2006	14.4	15.2	23.7	10.5	27.2

lousehold	Incon	nes in	i curren	t dollars,	distribution	by percentage	
	_						

In terms of the distribution of households in the less than \$20 000 range, with a decease of over 20%. The largest increase was in the \$80 000 and more range, with an almost 7% increase in the proportion of households in this range. In Lower NDG, the most dramatic decrease was in the proportion of households in this range. In Lower NDG, the most dramatic decrease was in the proportion of households in the less than \$20 000 range, with a decrease of approximately 15%. There was also a decrease in the proportion of households in the \$20 000 – \$39 999 range. The largest increase was in the proportion of households in the \$80 000 + range, with a 4.8% increase.

	IN CURRENT DOLLARS	LESS THAN \$20 000	\$20 000 TO \$39 999	\$40 000 TO \$ 59 999	\$ 60 000 TO \$ 79 999	\$ 80 000 AND MORE	N(=100%)
aint-Henri	1995	53.9%	24.3%	12.8%	5.4%	3.6%	6 395
	2005	31.6%	30.1%	18.0%	10.0%	10.3%	7 335
ower NDG	1995	47.5%	28.1%	14.2%	6.1%	4.1%	7 620
	2005	33.4%	31.3%	18.1%	8.3%	8.9%	8 245
land of lontréal	1995	35.1%	27.1%	17.1%	9.5%	11.2%	773 400
	2005	23.2%	26.5%	18.7%	11.6%	20.0%	831 540

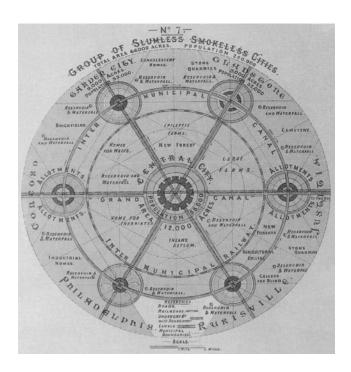
TABLE 15: HOUSEHOLD INCOMES IN CURRENT DOLLARS, DISTRIBUTION BY PERCENTAGE

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#### Reference to specific urban theories

#### **Garden City**

The notion of garden city planning can be found as a one of the design driver of the construction of the project in 1947. This distinctive urban site promotes social interactions moments created by public-private and semi-public-semi-private spaces located across the project. The model of garden city also values the balance between density and green space to create a healthy and safe environment for its residents. This model was then keep in the redevelopment program. As Pearls states "[...] we had to understand and respect the original masterplan and landscape principles, going back to the roots of garden city planning." (37)



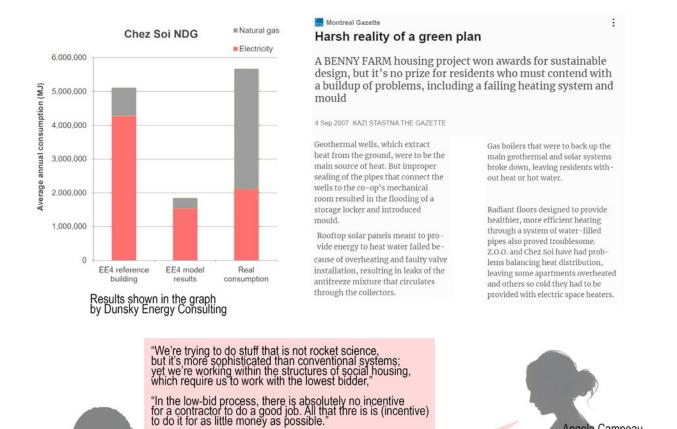
#### **Community Living/Collective Living**

neighbourhood design and worker's housing that were rooted in the early 20th century

Moisei Ginzburg and Ignatii Milinis, Narkomfin Building, Moscow, 1929



#### WAS IT A SUCCESS?



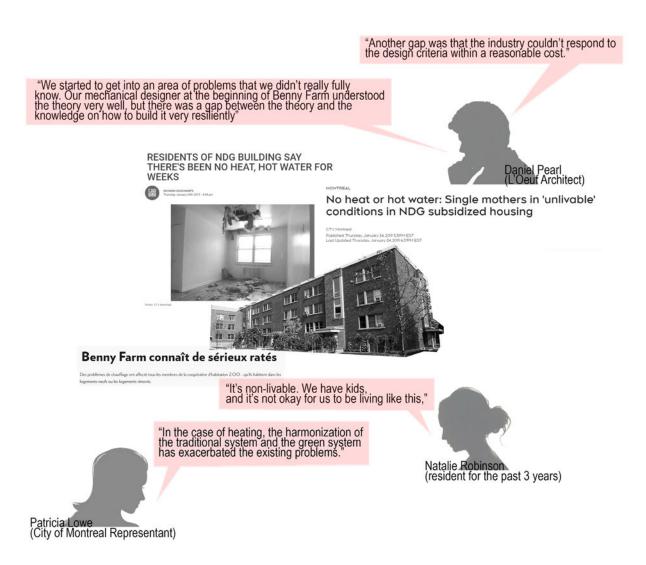
"I'm really angry the architects are winning all these awards for this project and others like it, and the work was never co.pleted and has caused us all kinds of other problems" Angela Campeau (one of the first resident)

#### Redrawn Energy Results

(L'Oeuf Architect)

erence: Hill, Alex: "Energy Efficiency in Affordable Housing", Dunsky Energy Consulting, 2013, https://www.mcgill.ca/tised/files/tised/energy\_efficiency\_in\_affordable\_housing.alex\_hill.pdf

The graph here, by Dunsky Energy Consulting, shows the results of energy consumption in the building Chez Soi. In reality the energy consumption exceeds largely the calculations and the return/profit is much lower than expected. Some compounding factors include the failure of Solar array, addition of cooling services, occupant behavior, etc.

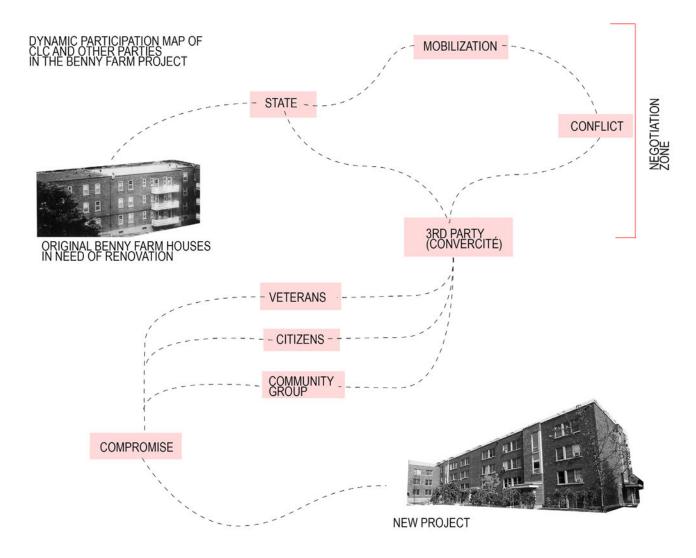


#### Newspaper Headlines

ference, Hill, Alex: "Energy Efficiency in Affordable Houssing", Dunsky Energy Consulting, 2013, https://www.mcgull.ca/lised/files/lised/energy\_efficiency\_in\_affordable\_housing\_alex\_phill\_pdf sastan, Kazi." Harsh Reality of a Green Plan", Montreal Szaztre, 2007, https://www.persseadeccom/canada/montreal-gazette/20079941/26175055278801 schamps, Richard. "Residents of MOS Building say there's been no heat, hot water for weeks-18691156 sig, Kelly." Who heat or hot waters (Sogle mothers in hurilly-abide) conditions in NOS subdicted housing; CVM Montreal, 2019, https://www.heartradio.ca/cjad/mews/residents-of-ndg-building-say-there-s-been-no-heat-hot-water-for-weeks-18691156 sig, Kelly." Who heat or hot waters (Sogle mothers in hurilly-abide) conditions in NOS subdicted housing; CVM Montreal, 2019, https://montreal.chrowsvc.acm/no-heat-or-hot-water-single-mothers-in-unlikable-conditions-in-ndg-subsidized-housing-1428765

The problem lies in the construction of sophisticated systems in the context of social housing. As Mark Poddubiuk, architect at L'Oeuf, mentions in Montreal Gazette in 2007, "In the low-bid process, there is absolutely no incentive for a contractor to do a good job. All that there is is (incentive) to do it for as little money as possible." and his colleague Daniel Pearl, "Another gap was that the industry couldn't respond to the design criteria within a reasonable cost."

These low quality installation of complex systems then created many issues such as loss of heat and condensation resulting in mold. The residents often have no choice but to look for other affordable housing and leave Benny Farm.



Participation Dynamic

(reference: Riel-Salvatore, Gabriel. "La Gouvernance Locale: Le Cas Benny Farm à Montréal." Canadian Journal of Urban Research, vol. 15, no. 1, 2004, pp. 41–61. ISTOR, www.jstor.org/stable/26192421. Accessed 12 Oct. 202

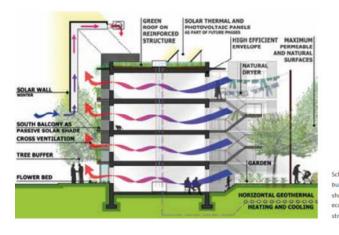
This diagram illustrate the success of a dynamic participation and negotiation between state and people through a neutral third party, in this case Convercité. This group played a major role in mediating between both parties and to assure a good compromise between everyone.

One of Benny Farm's success is this model of the state opting for a mixed management based on the local knowledge of the NDG community to direct the conflicts generated by the project into a dynamic of exchange and negotiation focused on conflict resolution.

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### Influence on other Projects







Rosemont is L'Oeuf's second large urban social housing project. Its design naturally relates closely with the Benny Farm project. It targets similar social and environmental problems with the common goal of proving better ways of design social housing.

As Daniel Pearl says in Community Housing Canada: "Looking at Benny Farm as a new model, understanding it as a pilot project, understanding that the theory of the project and the reality didn't line up, and how the theory changed practice in Montreal, and how from there, even if we didn't build what we wanted, we designed and learned so much, we started to transfer those ideas to other projects, including Rosemont."

Similar sustainable energy systems are incorporated in Rosemont such as green roof, solar panels, solar wall, geothermal system and high efficiency envelope.

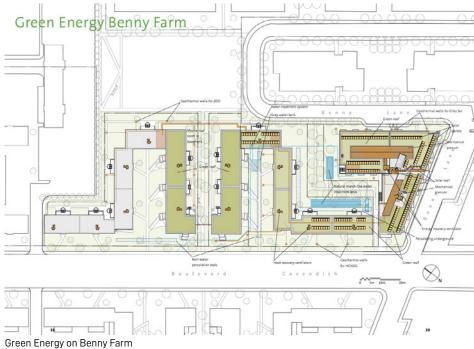
The client also chose a site configuration of buildings surrounding a central courtyard of green space resembling the garden city planning of Benny Farm.

Finally a strong community in the Rosemont project echoes the strong sense of community that was present in the Benny Farm project.

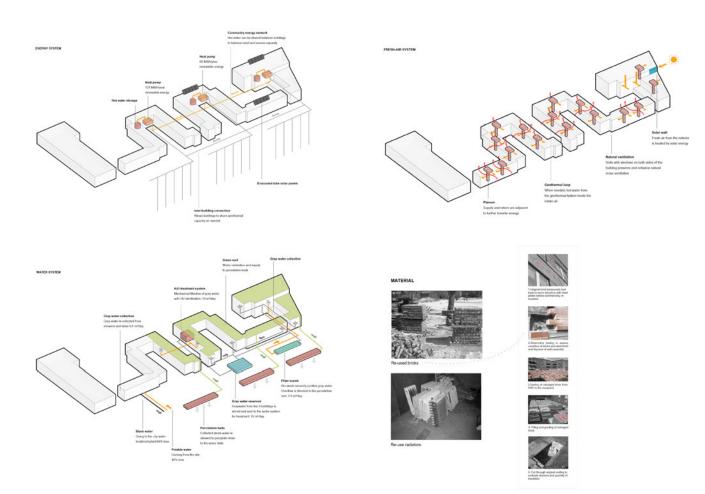
Rosemont Project

mage source Pearl Daniel and Wentz, Daniel. "Community-inspired housing in Canada", Lafarge Holcim Foundation, 2014, https://src.lafargeholcim-foundation.org/dni/l4b458042-a399-452e-bth3-23448idab507/Community-inspired housing in Canada", Lafargeholcim-foundation, 2014, https://src.lafargeholcim-foundation, 2014, https://src.lafargeholcim-founda

#### Assessment



(image source: Pearl, Daniel and Wentz, Daniel. "Community-inspired housing in Canada", Lafarge Holcim Foundation, 2014, https://src.lafargeholcim-foundation.org/dnl/4b438d42-a390-492e-btb3-23d48fdab507/Community-flustend



Redrawn green energy axonometric

m.org/dnl/e1d884a9-e78f-4925-882d-99a79e2731d7/NA05\_FHZOM\_small.pdf)

Benny Farm is a excellent example of social housing project addressing climate change by incorporating multiple green energy technologies such as geothermal wells, solar panels, green roofs and water retention systems among many other strategies. One of the major aspect of this sustainable strategy during the construction phase was to recycle the bricks from the demolition of the original houses reducing the waste produced. A high focused was also placed on the envelopes of each building to be designed as very durable and highly efficient in terms of insulation to avoid the premature degradation of the building and reduce the need of energy for heating. Geothermal systems and solar panels and a solar wall were built and installed to provide clean energy throughout the site while green roofs reduces urban heat island. Finally grey water/rainwater treatment were incorporated to reduce water waste and use within the Benny Farm project. Benny Farm's designers had a great vision for the project but the complexity of many of the sustainable systems ended up creating more problems. Nonetheless its innovation established a change in attitude toward a wider adoption of sustainable approaches in buildings.



#### Nowadays Lifestyle In Benny Farm

The Benny Farm project redevlopment project also addresses the problem of social inequality in the city of Montreal. With approximately 570 units of affordable housing built on site in new and rehabilitated buildings, Benny Farm have provided opportunities for rental and housing ownership for people who can not afford normal market prices including seniors, young mothers, low- and moderate-income families, as well as coops and people with special needs.

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