

Written Submission for the Pre-Budget

Consultations in Advance of the
2021 Federal Budget

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Recommendation 1: That the government provide funding in the amount of \$ 800,000,000 for the construction of the building described in this brief.

To restart the Canadian economy, the government of Canada needs to create avenues within the housing market for people who are classified as low income and market-rate to have a sustainable and stable place to live. One such avenues is to create the following type of building. (NOTE: Low-income, Market-rate, and the Rich will be living in the building)

The building would be eight-sided and around 160 floors tall. That would mean there would be about 1280 people living in the building. Each suite would be 4400 square feet, and the roof will be 17 feet (5.1816 m) high.



At an off-site factory, workers would construct different components that, when connected, would create the building.^{1 2 3}

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- 1 "J57 Mini Sky City," The Skyscraper Center (Council on Tall Buildings and Urban Habitat), accessed August 8, 2020, <http://www.skyscrapercenter.com/building/j57-mini-sky-city/19743>.
 - 2 "Chinese Construction Firm Erects 57-Storey Skyscraper in 19 Days," The Guardian (Associated Press in Changsha, April 30, 2015), <https://www.theguardian.com/world/2015/apr/30/chinese-construction-firm-erects-57-storey-skyscraper-in-19-days>.
 - 3 "World's Fastest Builder? Chinese Company Assembles 57-Storey 'Mini Sky City' Skyscraper in Just 19 Days," National Post (The Associated Press, April 30, 2015), <https://nationalpost.com/news/world/worlds-fastest-builder-chinese-company-assembles-57-storey-mini-sky-city-skyscraper-in-just-19-days>.

The pouring of the foundation and the creation of components of the building would progress at the same time. Once the foundation was complete, the components would be shipped, at night, from the off-site factory to the building's work-site. Once there, the workers would connect the components. In many ways, this building would emulate what the building developers did with J57 Mini Sky City, which is found in Changsha, China, as well as what was done with parts of the Leadenhall Building, which is located in London, United Kingdom.⁴

<https://nationalpost.com/news/world/worlds-fastest-builder-chinese-company-assembles-57-storey-mini-sky-city-skyscraper-in-just-19-days>

<https://www.designbuild-network.com/projects/the-leadenhall-building-london-uk/>

Each suite would be built as a self-contained house at an off-site factory location.



4 "The Leadenhall Building, London," Verdict Designbuild (Design Build Network), accessed August 8, 2020, <https://www.designbuild-network.com/projects/the-leadenhall-building-london-uk/>.

When the building's inners were assembled, the houses would be shipped from the off-site factory location to the work-site. Once at the work-site, a crane would lift the houses to a predetermined spot where it would be slid into place and locked in. The building could also incorporate shops, schools, restaurants, and entertainment venues as well as the suites for living in.



NOTE: The reason each suite would be built as a stand-alone house is once the City of Vancouver has zoned land as a place for the low-income and/or market-rate individuals to live, crews will remove the outside of the building, pull out the homes, and transport them to the newly zoned neighborhood. The crews will install the houses, and attach the power and sewer, which will allow the individuals to move out of the building and into their new community.

An additional benefit of building a factory in Vancouver British Columbia Canada that would adopt the method of construction outlined above is that components for other buildings that were being constructed in other countries could be fabricated in Vancouver and then shipped internationally to where the building is being assembled. Vancouver's port would be essential to the success of such an international project.

Also, another factor to consider is as decades pass and styles and technology change, the suites, schools, stores, restaurants, and entertainment venues could be swapped out for newer versions. Once the new suites, schools, stores, restaurants, and entertainment venues were finished being construct at the off-site factory, the workers would ship the new rooms to the building. The modern rooms would arrive and be installed on the same day instead of having to remove people, do renovations, and then move everyone back in, which takes a long time to complete.

The building would have a farm on the roof. The farm would consist of fish, chickens, the harvesting of the chicken's eggs, a place for fruit trees, and greenhouses where vegetables would be grown. Also on the roof would be a place for people to sit, enjoy people's company, and drink a tasty beverage.



Fish.



Chickens.



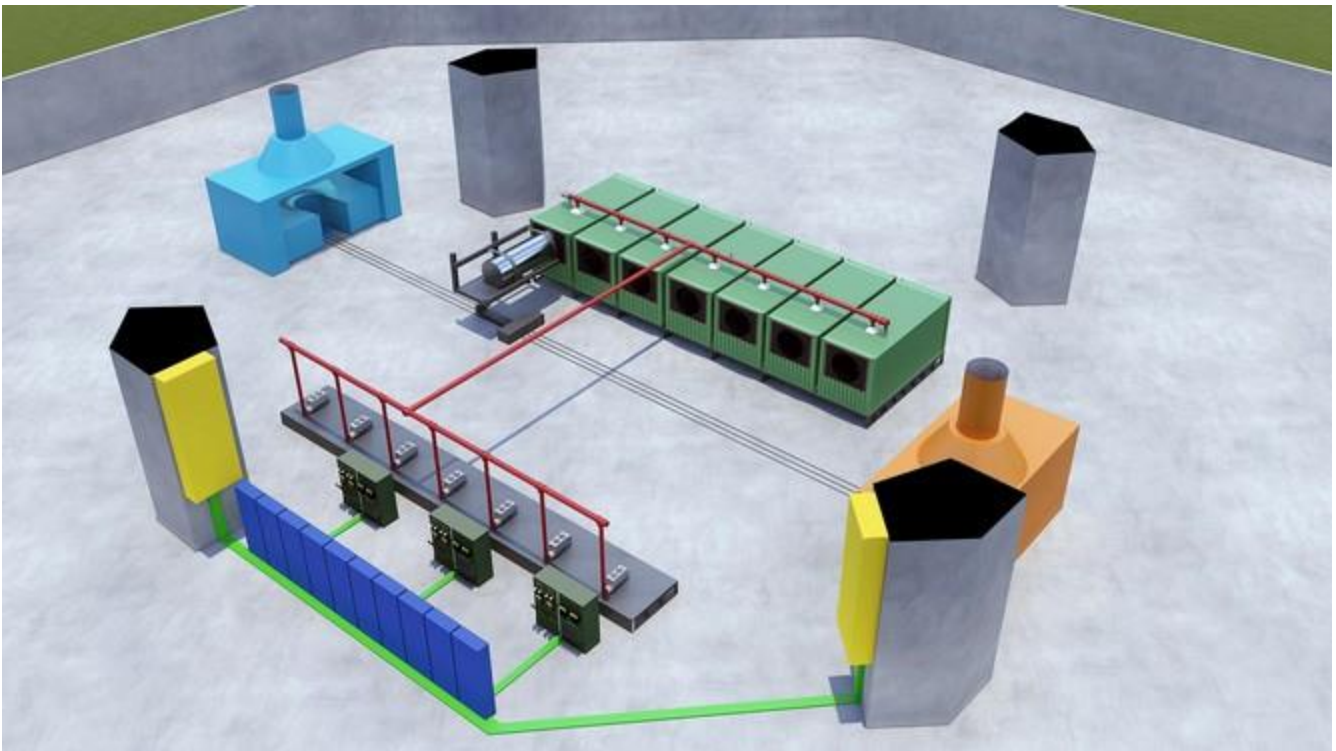
Fruit Trees and Bushes.



A place to relax, vist and have a drink.

An elevator located on the outside of the building would travel from the ground floor to the rooftop farm. (NOTE: Workers will exclusively use the outside elevator to bring up and down food and fertilizer. To make sure smells from the farm do not bother the tenants, the enclosures for the chickens will incorporate self-closing double-door access separated from general building corridors. The ventilation will provide ducted, directional airflow by drawing air into the enclosures from clean areas and with no recirculation.) There will also be elevators inside the building for people to use to travel up and down the building.

In the basement, there would be bio-digesters that would transform the organic waste produced from people and animals in the building into biofuel. The organic waste would encompass human and animal excrement, plants, food leftovers from the suites in the building, and organic disposable material from the rooftop farm. The biofuel, once produced, would be used to power Stirling engines, which will produce electricity. The electricity will be routed back into the building, thus reducing power costs for the tenants. Without the use of water, a new type of toilet located in the suites would transport human fecal matter to the biodigesters. The bio-digesters would exist in the basement. Once the component carrying the human waste emptied its contents into a bio-digester, a system located in the basement would wash the part before putting the component back into circulation.



Bio-digesters, Washer, and Stirling engines, which will produce electricity.

Dependent upon cost and personal preference of the people who would be living in the building, the building would have a system installed that is used by astronauts who live on the international-space-station uses to reclaim their water. These two systems would drastically reduce the new water the people in the building and the building would need to function.

<https://www.theguardian.com/science/2015/aug/26/us-astronauts-recycled-urine-international-space-station#:~:text=Ninety%2Dthree%20percent%20of%20all%20the%20water%20on%20board%20is,eac h%20year%2C%E2%80%9D%20Hadfield%20said>

People will move into the building. (NOTE: An organization will train the low-income individuals on how to manage any maintenance that needs to be done in a suite. Once the training is completed, the organization will assign each of the low-income individuals a market-rate suite that they will be required to manage any maintenance that needs to happen to the suite. For example, if a plumber is required, the low-income individual will call a plumber and make sure everything is repaired and resorted to working order. The organization will oversee the operations of low-income individuals and pay them \$1000 a month. A requirement that would be mandatory for all low-income individuals that are managing a suite is every morning the low-income individuals will participate in a drug test. A low-income individual, who has failed the drug test, will be evicted the same day the drug test was done. Within a week from the time the low-income individual failed their drug test, a different low-income individual, that has completed the training will move into the building and replace the low-income individual that failed their drug test.

Other Images:



