

Written Submission for the Pre-Budget

Consultations in Advance of the
2021 Federal Budget

By: Craig Teneycke

Recommendation 1: That the government provide funding in the amount of \$ 15,000,000,000 for the creation of a permanent city where refugees can live, work, create businesses ventures, and enjoy life.

The way to restart the Canadian economy is to invest in people and a framework, a city, that will over time expand Canada's exports as people become settled, safe, and inspired to move forward into the future. Think the success of the Marshall Plan.

In 2015 an Egyptian billionaire businessman named Naguib Onsi Sawiris¹ had an idea to buy a Greek island and transform it into a place where refugees could live and work.² His vision was good yet tiny. Canada needs to modify its vision when it comes to how it interacts with refugees. A "UNHCR's [...] report shows Canada took in 28,100 of the 92,400 refugees who were resettled in 25 countries during 2018;"³ "1.4 million refugees were in need of resettlement in 2018, but only 92,400 were resettled." According to the U.S. Citizenship and Immigration Services, refugees have existed as early as 1891.⁴ The UNHCR says there are currently over 20.4 million refugees around the globe.⁵ Canada needs to lead a proactive approach when interacting with refugees.

Canada needs to lead the international community in building a fully functional city where refugees could be resettled and live safe and productive lives. The city would have linguistic interpreters, stores, schools, medical facilities, police, firefighters, and ambulance, as well as work opportunities that would allow the city and refugees to be self-sustainable. There would also be stable and secure accommodations that will enable the refugees, who moved in, to feel safe. The accommodations would also allow the refugees to have their own suites.

The city would be located in Western Sahara between El Argoub and Boujdour at longitude 25° 31'12" N, latitude 14° 41'14" W.⁶ Western Sahara has a population that is 652,271.⁷ The city would not only help refugees; it would help the people who lived in the region. As the city's population grows, additional resources that would not exist if left to Morocco and/or Algeria would come into the city. I am aware that Western Sahara has, in the past, been dominated by aggression between Morocco and Algeria. However, Canada could hold international talks between Morocco and Algeria as Canada worked with both parties to move them to an agreement where they can perceive the opportunity and benefit of working together to create a city for refugees.

While the initial population of the city would be 10,000, the goal would be to grow the city until it could sustain 7,000,000 refugees. To put the population in perspective the population of New York is

1 "Naguib Sawiris," March 2011, <http://tiny.cc/lfgmsz>.

2 Keren Blankfeld Kblankfeld@gmail.com, "Africa's 10th Richest Man Still Waiting To Buy A Greek Island To House Refugees," Forbes (Forbes Magazine, November 18, 2015), <http://tiny.cc/yfgmsz>.

3 "Canada Resettled More Refugees than Any Other Country in 2018, UN Says | CBC News," CBCnews (CBC/Radio Canada, June 20, 2019), <https://www.cbc.ca/news/politics/canada-resettled-most-refugees-un-1.5182621>.

4 "Refugee Timeline," USCIS (U.S. Citizenship and Immigration Services, July 28, 2020), <http://tiny.cc/4kgmsz>.

5 United Nations High Commissioner for Refugees, "Figures at a Glance," UNHCR (UNHCR, June 18, 2020), <https://www.unhcr.org/figures-at-a-glance.html>.

6 Google Earth 9.3.116.1. Western Sahara – Coast, longitude 25° 31'12"N, latitude 14° 41'14"W, 111m., August 4, 2020, <https://tinyurl.com/yxe9hh2l>.

7 "The World Factbook: Western Sahara," Central Intelligence Agency (Central Intelligence Agency, July 2020), https://www.cia.gov/library/publications/the-world-factbook/geos/print_wi.html.

around 8.399 million⁸ The city would be grown over twelve years and the growth of the city would be divided into stages.

Stage One;

Obtain land within Western Sahara.

Install a desalination system.

A desalination system will be constructed that will transform ocean water into fresh water.⁹ The volume of water that will be processed by the desalination system will allow the population of the city, city's greenhouses, schools, businesses, factories, pastures, and any other endeavors the city undertakes to have freshwater. Plus, the system will process additional water for the sole purpose of routing the freshwater to the population of Western Sahara that lives in the area of the city and some of the endeavors they undertake. An additional goal of the city will be to add value to the population of Western Sahara. If the people of Western Sahara see the city as giving value to their lives, they will be more likely to want the city to stay and grow, which will mean that it will be easier to help additional refugees.

Below you will find URLs that link to examples of desalination system.

<https://www.advisian.com/en-us/global-perspectives/the-cost-of-desalination#>

<http://www.twdb.texas.gov/innovativewater/desal/index.asp>

<http://news.mit.edu/2019/brine-desalination-waste-sodium-hydroxide-0213>

8 United States Census Bureau, "Population of New York," 2018, <http://tiny.cc/d8imsz>.

9 "Www.ForeverPurePlace.com," accessed August 5, 2020, <https://tinyurl.com/yxnhnmm4>.

Electrical production

At the same time, the desalination system is being constructed, power generation and storage systems would be built. Solar panels, Concentrated solar systems, and tidal power will be used to create a majority of the electricity that will power the city. Wind power and/or Stirling engines will also be used to augment the city's electrical needs. The final goal will be to create a surplus of electricity so that the city will be able to export the excess of power to Europe, as well as North and sub-Saharan Africa. That will aid in the goal of making the city self-sufficient. The city will also explore a partnership with the World Bank.

The URL below links to the World Bank's research.

<https://projects.worldbank.org/en/projects-operations/project-detail/P162580?lang=en>

Egypt is building the largest solar farm in the world.

<https://www.pv-magazine.com/press-releases/first-part-of-scatec-solars-400-mw-solar-power-plant-in-egypt-in-commercial-operation/>

Below are URLs that link to examples of power generation systems.

Solar power / Concentrated solar power

<https://www.energy.gov/eere/solar/concentrating-solar-power>

<https://news.energysage.com/solar-farms-start-one/>

<http://terratek.ca/>

Tidal power

<https://www.youtube.com/watch?v=G6gLncFj41g>

Once electricity has been created it would be transferred to a power storage system. The two URLs found below link to examples of power storage systems.

Pumped-storage hydropower

<https://www.youtube.com/watch?v=lsSUPpwtqhQ&feature=youtu.be>

Other examples

<https://energystorage.org/why-energy-storage/technologies/>

Greenhouses

While the desalination and power generation and storage systems were being constructed, a state-of-the-art greenhouse system would be built. The Netherlands will be contacted and asked to facilitate the development of the greenhouses. The reason the Netherlands would be contacted and asked to facilitate the development of the greenhouses is the Netherlands is the second-largest exporter of agricultural products in the world.¹⁰ The United States is the only country that produces more agricultural products than the Netherlands; however, the United States is 237 times larger than the Netherlands.¹¹ The Netherlands' greenhouses use 90% less water than traditional greenhouses¹², which will be ideal for the environment that the produce will be grown in.

The goal will be to produce enough agricultural products to meet the city's population needs, share with the people of Western Sahara and export to Europe, and/or North and/or sub-Saharan Africa.

That will move the city closer to achieving the goal of making the city self-sufficient. The refugees, once they move into the city, will work in the greenhouse. The refugees will be required to work in different areas of the city, or they will be sent back to the refugee camp.

<https://www.dutchnews.nl/news/2018/01/the-netherlands-is-the-second-largest-agricultural-exporter-after-us/>

<https://www.nationalgeographic.com/magazine/2017/09/holland-agriculture-sustainable-farming/#close>

10 "The Netherlands Is the Second-Largest Agricultural Exporter after US," DutchNews.nl (Vindustries, January 19, 2018), <https://tinyurl.com/yymo9xz6>.

11 Niall Patrick Walsh, "How The Dutch Use Architecture to Feed The World," AGRITECTURE (AGRITECTURE, February 26, 2020), <https://tinyurl.com/r8vbm6v>.

12 Adele Peters, "These Eerily Beautiful Glowing Buildings Are the Netherlands' Massive Network of Greenhouses," Fast Company (Fast Company, March 12, 2020), <https://tinyurl.com/yyuwcjpp>.

Complex

At the same time, the previously buildings referred to above are being constructed, a complex that houses 10,000 refugees and support staff, will be built. The refugees will be screened, for, but not limited to, illnesses, disease, family size, religion, skill-sets; at the same time, the complex is being built. The complex will be constructed in components, shipped to the worksite, and assembled. That will enable countries around the world to participate in the construction of the complex while employing their workers to build the components.¹³

A 57 story building located in China was assembled in 19 days using components.^{14 15} “90% of the components for this building [...] were fabricated in the 230,000-sm factory”¹⁶ It is an example of how the complex will be constructed and the possibilities that can be achieved.

Stage two;

Recycling

Once stage one is completed, a state-of-the-art recycling system will be built that will allow all the nations of the world to send all their recycling and/or trash to the city; once there, it will be processed into usable materials. The city will charge the nations a fee to process their recycling and/or trash. After the recycling and/or waste is processed into usable materials, the usable materials will be sold to companies that wish to use recycled materials to create their new products.^{17 18}

The profits from this endeavor will allow the city to expand, which will allow more refugees to be accommodated within the city. In addition to the new refugees, the profits will enable the city to bring in different professionals such as instructors, which will teach the population an array of skills, such as English, manufacturing, app creation, robotics, first aid (paramedic,) law enforcement and firefighting.

13 John Caulfield, “Asia’s Modular Miracle,” Building Design + Construction (Building Design & Construction, February 5, 2016), <https://www.bdcnetwork.com/asia%E2%80%99s-modular-miracle>.

14 Associated Press in, “Chinese Construction Firm Erects 57-Storey Skyscraper in 19 Days,” The Guardian (Guardian News and Media, April 30, 2015), <https://tinyurl.com/her8nbb>.

15 “J57 Mini Sky City,” The Skyscraper Center (Council on Tall Buildings and Urban Habitat, 2015), <http://www.skyscrapercenter.com/building/j57-mini-sky-city/19743>.

16 John Caulfield, “Asia’s Modular Miracle,” Building Design + Construction (Building Design & Construction, February 5, 2016), <https://www.bdcnetwork.com/asia%E2%80%99s-modular-miracle>.

17 David Madden, “8 Companies That Only Sell 100 Percent Recycled Products,” Green Business Bureau (Green Business Bureau, October 9, 2018), <https://greenbusinessbureau.com/blog/8-companies-that-only-sell-100-percent-recycled-products/>.

18 Mara Leighton, “14 Companies That Are Capitalizing on the Unpopularity of Plastics,” Business Insider (Business Insider, April 16, 2019), <https://www.businessinsider.com/companies-using-recycled-plastic-in-products>.

Biodigester

The city will install Biodigesters. A biodigester changes organic matter into biofuel.¹⁹ Human fecal matter, plants, table leftovers, grass clippings peelings, and rotten food are all examples of organic materials that can be processed in a biodigester. The biofuel created from the biodigester can be sold as a commodity and/or used to cook with and/or power a Stirling Engine, which will generate electricity.²⁰

Medical clinic / Pharmacy / Surgical Bay

A medical clinic, pharmacy, and surgical bays will be built at the same time that the recycling system and biodigester are being constructed. The medical clinic will have an MRI, CT, and X-ray machine as well as a scope. Samaritan's Purse²¹ and Red Cross²² are examples of charities that could manage the medical clinic, pharmacy, and surgical bays.

Pastures

Pastures will be developed²³ so that livestock goats, sheep, and cows, will be able to graze. Once the livestock is butchered, most of the meat will be going to the population of the city, some will be shared with the people of Western Sahara, and some will be sold for profit.

Canadians Profit.

As the city's population increases and additional refugees learn skills the profits will increase from the endeavors discussed above. Investors will start investing in business ideas that members of the city's population will have and Canadian businesses will increase their profits as they sell their products to the business ventures within the city.

19 "MUCKBUSTER®," SEAB Energy (SEAB Power Ltd t/a SEaB Energy, June 1, 2017),anA <https://seabenergy.com/products/anaerobic-digesters/>.

20 "Who We Are," GENOA STIRLING (GENOA STIRLING, 2017), <https://genoastirling.com/eng/>.

21 "World Medical Mission," WORLD MEDICAL MISSION (Samaritan's Purse Canada, January 18, 2017), <https://www.samaritanspurse.ca/what-we-do/world-medical-mission/>.

22 "Helping The Most Vulnerable - Canadian Red Cross," Red Cross Canada (Canadian Red Cross), accessed August 5, 2020, <https://www.redcross.ca/>.

23 Kaushik Patowary, "Organic Farming in the Deserts of Wadi Rum," Amusing Planet (Amusing Planet, March 18, 2019), <https://www.amusingplanet.com/2014/04/organic-farming-in-deserts-of-wadi-rum.html.s>

