



## Pitch Long Beach! - Idea Form

### **1.Primary contact name**

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### **4.Organization name**

Innovation Machine Technology, Inc

### **Link to IMT Team Members-**

[IMT Executive Management Team](#)

### **5.Organization address**

IMT Corp- / Legal Counsel William Haney - 2700 Newport Blvd  
Ste 172, Newport Beach, CA 92663

William Hanley EMAIL- [wbh@hanley-law.com](mailto:wbh@hanley-law.com)

### **6.Organization website**

[www.innovationmachinetechology.com](http://www.innovationmachinetechology.com)

### **7.Title of your proposal**

**Positioning- "The City of Long Beach as the  
Environmental Capitol of the United States"**

**Here is a short [IMT 2 Minute Video Overview link for your review](#)  
[Video – An Introduction to IMT Plastic Recycling](#)**

**8. Describe your proposal in 250 words or less.  
(Please list any other organizations that will be  
involved, if applicable)**

This proposal is to position Long Beach as the United States environmental capital by giving the City leadership in eliminating waste plastics from current indiscriminate disposal habits and illegal dumping / burning operations while diminishing city landfill volumes and costs.

This will be achieved by uniquely placing the three proven IMT technologies at the Long Beach site under one roof by -

- (i)** Initiating full time employee waste plastics collection operations from public lands, riverbanks / sea-shore locations in the collection and conversion of all seven (7) plastic grades;
- (ii)** Working with established cartage contractors to deliver their mixed dirty waste plastics to the IMT reprocessing plant;
- (iii)** Working with Long Beach City and the California State Government offices in the design, development and use certification of either import replacement or new innovative products for government agency use;
- (iv)** Working with Long Beach and Californian K–12 schools to provide our next generation leaders with a working knowledge of waste plastic fiscal and environmental sustainability values;

- (v) Establishing the first American:
  - a) comingled, dirty waste plastics delivery point
  - b) processing of these 7 waste plastic material grades into moulding and profile extrusion grade feedstocks,
  - c) processing of these feedstocks into commercially and environmentally sustainable end products which at the end of their design life use will be returned to the IMT facility for reprocessing again and again,
  - d) upskilling all employees from their current education level in the IMT career pathway program.
  
- (vi) Upholding the UN 17 sustainability goals.

**249 words**

## **Step One-**

[Making the City of Long Beach the Environmental Showcase for the United States](#)

## **Step Two -**

**City of Long Beach**

[Showcase Environmental Science and Education Center](#)

**These listed below are some of the contributing organizations that will lend support: In Making “The City of Long Beach” the Environmental SHOWCASE in the United States.-**

**STADLER,AG** - <https://w-stadler.com>

**CIT-** <https://www.cit.com/commercial/>

**BRC Imagination Arts** - <https://www.brcweb.com>

**Morgan Stanley-**

<https://www.morganstanley.com/Themes/plastic-pollution>

**JP Morgan-**

<https://am.jpmorgan.com/us/en/asset-management>

**Prince Albert Environmental Foundation-**<https://www.fpa2.org/en/index>

**Oceanographic Institute and Museum-**

<https://oceaninstitute.org>

**Sustain Southern California-** <https://sustainsocal.org/>

**Goldman Sachs, State of California, Long Beach State University , Long Beach City College, Long Beach Public School District, etc.**

**9.What sets your solution apart from your competitors? Please describe in specific terms your value proposition.**

The IMT solution is unique in that the technology actually reprocesses all the seven (7) grades of comingled, dirty waste stream plastics collected throughout the regional area and delivered to the one IMT site without prior sorting or washing.

The uniqueness continues in that at the site all the grades are processed under one roof into commercial, industrial, horticultural and residential products that are engineer certified fit for purpose.

Each IMT product carries the IMT end-of-design-life-use take-back guarantee to encourage the return of these products to the IMT plant for again and again reprocessing in the IMT circular economy program.

The IMT site will harvest rainfall from the roof into storage tanks for washing and product cooling then be returned via on-site filtration to the storage tanks for re-use. In this way the IMT process does not impinge on the City water infrastructure.

Basically, the only water leaving the site will be sewage.

Storm water runoff will be minimised by IMT using reprocessed plastic grids for the vehicular avenues and on-site parking areas. The grids encourage easily maintained vegetation growth to reduce the absorption of solar radiation and heat reflection.

IMT will work with the City in the development of innovative product solutions as economical imported product replacements for identified local building, infrastructure and landscaping problems.

A major difference with this waste plastics solution is that the IMT program specifically encourages persons of all education level to become full-time employees and in-house upskilled to match the career pathway opportunities.

Associated with the local area employee upskilling is the IMT program to use the site as the US training facility for IMT plant commencement staff across the US.

This multi-purpose IMT Showcase Site will position the **City of Long Beach on the World Environmental Map attracting national and international city, state and country** official visitors. These visitor numbers will be swollen by tourists attracted to the unique upskilling and innovative plastic circular economy programs.

The primary values of this program are –

- (i) The encouragement impetus of payment for the recovery of carelessly disposed plastics from land or sea shore;
- (ii) The enticement for unskilled persons to become full time employees;
- (iii) The enticement for IMT employed unskilled persons to upskill their capabilities with an attainable career pathway;
- (iv) The non-impingement on City of Long Beach infrastructure and facilities by this IMT plant;
- (v) The lack of pollution caused by this IMT plant (*in that by reprocessing the plastics there is >80% achieved reduction in off-gases, power and water use compared to virgin plastics products with further reductions on the IMT product take-back reprocessing;*
- (vi) The IMT program is focussed on achieving the 17 United Nations Global Goals for sustainable environmental, social and governance (ESG) outcomes within the City of Long Beach region.

## **10. Demonstrate how your proposal aligns with one or more of the four Smart City Initiative Guiding Principles:**

**Design for Equity: Reducing historic inequities and disparities by ensuring advancements in technology and service delivery are accessible to all and improve quality of life for communities that have been underserved.**

The City of Long Beach Design for Equity encompasses the UN ESG goals

## (17) United Nations Global Goals for Sustainable Development

within which the IMT program will bring –

**Goal 1. 'No Poverty'** The IMT plant will provide full time employment opportunities for persons of all education levels with a particular focus of attracting currently unemployed persons

**Goal 2. 'Zero Hunger'** By targeting currently unemployed persons and providing full time employment IMT is (a) providing income streams to enable families to afford nutritious foods with food security by (b) supporting local agriculture to achieve sustainability goals by collecting and reprocessing all single use plastics

**Goal 3. Good Health and Well Being** In providing full-time employment IMT is supporting the creation of a sustainable local area livelihood by encouraging family lifestyle improvement with good health and community care services

**Goal 4. 'Quality Education' / 5. 'Gender Equity'** The IMT upskilling program caters for all education levels irrespective of personal backgrounds (there is a career pathway for all employees) or gender or race. IMT offers equal opportunities to all who apply for the full time employee program

**Goal 6. 'Clean Water and Sanitation'** With IMT using off-roof harvested rainwater there will be little impact on the City of Long Beach established water supplies.

With existing City of Long Beach sanitation, the IMT plant will have little impact. IMT however, will be producing mini flat packed septic tank primary treatment chambers for the provision of chemical free flushing sanitation in disaster relief operations at impacted national and international locations or non-infrastructure service locations

**Goal 7. 'Affordable and Clean Energy'** This project is seeking to generate renewable energy on site so as not to reduce the power available to the City of Long Beach community nor to increase local power demand pricing into the future

**Goal 8. 'Decent Work and Economic Growth'** This project by providing full time employment and upskilling all employees will have opportunities for their chosen career pathway attainment so the City of Long Beach community will participate in economic growth

**Goal 9. 'Industry, Innovation and Infrastructure'** The build and maintenance of this Showcase Facility will use local material suppliers and contractors and conversely will local businesses with innovative IMT products each with the IMT end of design use life take-back guarantee

**Goal 10. 'Reduce Inequalities'** By providing full time employment and thereby increasing employee self-esteem this IMT program will enhance employee family well-being as the employees advance in their individual career pathways

**Goal 11. 'Sustainable Cities and Communities'** By creating full time sustainable employment for all skill levels by providing actual value for waste plastic materials in conjunction with the IMT K to 12 Schools program and the City of Long Beach one primary target is to change current waste plastic disposal habits while collecting waste plastics from the local environment. Sustainability will obtain with the opportunity for unemployed persons to gain a regular home income stream which will (i) raise living standards with a positive economic ripple effect; (ii) enable a better standard of housing and (iii) entice employees to upskill

**Goal 12. 'Responsible Consumption and Production'** With IMT uniquely accepting all seven (7) grades of plastics in clean or contaminated form the reprocessed 2<sup>nd</sup> life products will be again and again 100% recyclable



Currently, IMT has a range of over 200 engineer certified products for use by government agencies and communities with the IMT capability to co-work with agencies in the development of innovative product solutions to locally identified problems

**Goal 13. 'Climate Action'** IMT is offering an immediate action by reprocessing and remanufacturing waste plastics which markedly reduces the IMT and City global carbon footprint by as much as 65% in reprocessing PVC and 85% for HDPE waste plastics with up to an 80% reduction in energy, hydrocarbon and water use

**Goal 14. 'Life Below Water'** By accepting waste plastic materials from drains, streams, rivers, seashore or ocean scavenging operations IMT is working to conserve the oceans and benefit marine life across the globe

**Goal 15. 'Life On Land'** By uniquely accepting all agricultural, aquacultural, commercial, dairying, horticultural, industrial and kerbside collected comingle and contaminated plastics IMT is assisting land and ocean based industries towards environmental sustainability

**Goal 16. 'Peace, Justice and Strong Institutions'** In working with local communities and schools while providing full time employment and upskilling opportunities for all employees IMT is seeking to enable improved and sustainable regional living standards. IMT will encourage employees to volunteer for community activities and thereby engender an inclusiveness for all. The employee sustained income growth will enhance societal acceptance of educational studies and provide a community self-growth impetus for stronger institutions, peace and justice

**Goal 17. 'Partnership for the Goals'** By providing a commercially sustainable pathway for all waste plastics the IMT closed loop program removes the term 'waste' from single use plastics by reprocessing them again and again additional life products. IMT purposely elects to form Governmental and community partnerships wherever volumes of waste plastic obtain.

**Earn Public Trust: Building public confidence through excellence in data privacy, data transparency, and community engagement.**

The IMT program is purposely targets building public confidence by positive community engagement along with ensuring data privacy and data transparency.

Each of these targets is a critical success factor underlining the value of (i) IMT to the City of Long Beach community and (ii) the City of Long Beach Community to the IMT program in confirming the environmental and fiscal sustainability.

A concurrent initial step is the initiation of a K to 12 schools program providing basic student knowledge on the value of plastics and the ability to be sustainably reprocessed multiple times to benefit the environment, industry and living standards

**Cultivate Local Expertise: Promoting place-based growth by supporting Long Beach entrepreneurs and businesses, improving workforce job-readiness, and building partnership networks.**

**Long Beach entrepreneurs and businesses** – A major IMT direction is to specifically co-work with local entrepreneurs and business in the development of innovative products either as import substitution or as solutions to entrepreneur of business identified local problems.

The benefit of this is that with such new product solutions there will be similar use benefits across the US and probably

internationally that will enable the entrepreneur / business to expand US sales and potential export sales.

**Improving Workforce job-readiness** – By facilitating IMT in-house upskilling programs for all levels of education persons employees will be multi-skilled and able to advance their chosen IMT career pathway.

While this is totally in-house what it does mean is that currently unemployed persons within the City of Long Beach will have the opportunity of full time employment whilst upskilling to step-up their personal in-company job-readiness

**Build Civic Resilience: Improving capacity to respond efficiently and effectively to the most-pressing civic challenges using data-informed decision-making.**

This IMT project is not within this priority arena.

**11. Which of the following Citywide priority areas does your proposal align with? (You may select more than one)**

**Recovering from the COVID-19 economic and public health crisis;**

The IMT plant will offer employment opportunities to persons who have become unemployed due to COVID-19 without regard to their current education / skill levels.

Executing the City's Climate Action and Adaptation Plan; This IMT project is designed to comply with the **City of Long Beach Climate Action Plan** by reducing **GHG** emissions and enhancing Long Beach economic viability by –

**DRT-3 / EH-2** reprocessing waste plastics into a grid format for vehicle / traffic avenues and parking areas which allow the growth of prostrate native flora to (a) reduce the incidence of solar heat gain and thereby provide a cool surface with negligible heat reflection of radiation.

**FLD-5 (i)** by manufacturing and installing the IMT reprocessed plastic vehicle access and parking area grids storm water runoff is captured by the grids allowing the storm water to permeate into in-ground aquifers thereby mitigating water outflow from the IMT premises; and **(ii)** by capturing and harvesting the on roof rainfall into water storage tanks for the material reprocessing process and on-site filtering prior to returning to the storage tanks this IMT project will be saving Long Beach potable water supplies.

A major positive is the reduction to Long Beach annual landfill waste plastic volumes by >36,000 metric tonnes during the first year of operation and >408,000 metric tonnes by operational year seven (7).

Additional outside plant employment will be required for Long Beach franchised and private waste haulers and their operational support companies.

All IMT employments will be for quality jobs under the IMT all-inclusive and gender equality prescriptions.

**IMT will liaise with the South-East Resource Recovery Centre** and other parties to ascertain the volume of recoverable plastic materials available for reprocessing under **W-1** that requires 'materials that can be recycled are recycled'.

A major difference between IMT and other 'recyclers' is that IMT will annually certify and confirm the actual volume of waste plastics provided by entities reprocessed into 2<sup>nd</sup> life products and thereby having decreased the demand for virgin plastic materials.

### **Making City Hall more accessible and increasing civic engagement;**

This IMT project is not as yet within this priority arena.

### **Improving transportation and mobility and reducing transportation-related emissions;**

This IMT project will diminish the number of comingled rubbish cartage vehicles traveling to the landfill site (thereby extending

cartage vehicles travelling to the landfill site (thereby extending the landfill site life) due to contractual arrangements to bring all waste plastic materials to the IMT plant.

What this means is that although there may be the same number of cartage vehicles other vehicles (private or industrial) carrying waste plastic materials to landfill will reduce markedly due to the now targeted roadside collection of waste plastics of all grades.

This reduction of vehicles travelling to and from the landfill sites will provide a reduction of transport related emissions

### **Closing the digital divide;**

This IMT project by employing persons with low skill sets (who most likely do not have internet / digital skills) will provide in-house basic digital training as part of the IMT upskilling program.

**Reducing homelessness and housing insecurity;** The IMT initiation program specifically targets current unemployed persons within the City of Long Beach by providing the opportunity of full time employment with the ability to upskill and improve personal income levels.

These full-time employment opportunities will: (i) enable current homeless persons to gain an income stream which will afford them accommodation abilities; (ii) provide an income stream acceptable to housing finance offices to removal housing finance insecurity plus (iii) enable the employee and family to upgrade their housing as the employee advances within the IMT plant.

### **Ending systemic racism and reducing racial wealth gaps.**

As in the United Nations Sustainable Environmental, Social and Governance Global Goal Gender Equity Number 5 - IMT is targeting (i) by the equal opportunity upskilling program for all education levels, irrespective of personal background, gender or race to negate the issue of systemic racism within the program; and (ii) by providing an equal opportunity career pathway for all employees to enable the reduction of racial

pathway for all employees to enable the reduction of racial wealth gap among IMT employees.

## **12. What impact do you believe your proposal would have on the Long Beach community?**

Impact #1. This Environmental Project will Position - The City of Long Beach - on the World Environmental Leadership Map as an imperative environmental tourism must /see map

Impact #2. This project is aimed at permanently removing all waste plastics from all City of long Beach land and waterfront locations

Impact #3. Providing long term employment opportunities for current the City of long Beach unemployed and homeless persons

Impact #4. Providing all K to 12 students (our tomorrow's leaders) with the value knowledge of all 7 used plastic grades and the positive environmental value in continuing to reprocess end-of-design-life plastic products

Impact #5. Provide all citizens of all races equal employment and self-esteem upskilling opportunities with full time employment

## **13. What resources (City staff, Facilities, Land, Public right-of-way, City infrastructure, Equipment, Software, Hardware, Data, etc.) would you need access to for your proposal?**

IMT Corp and Environmental Fund Investors will require City of Long Beach total commitment and support to make this happen for the City of Long Beach.

1. Make both the 11 acre COVANT Waste to Energy site



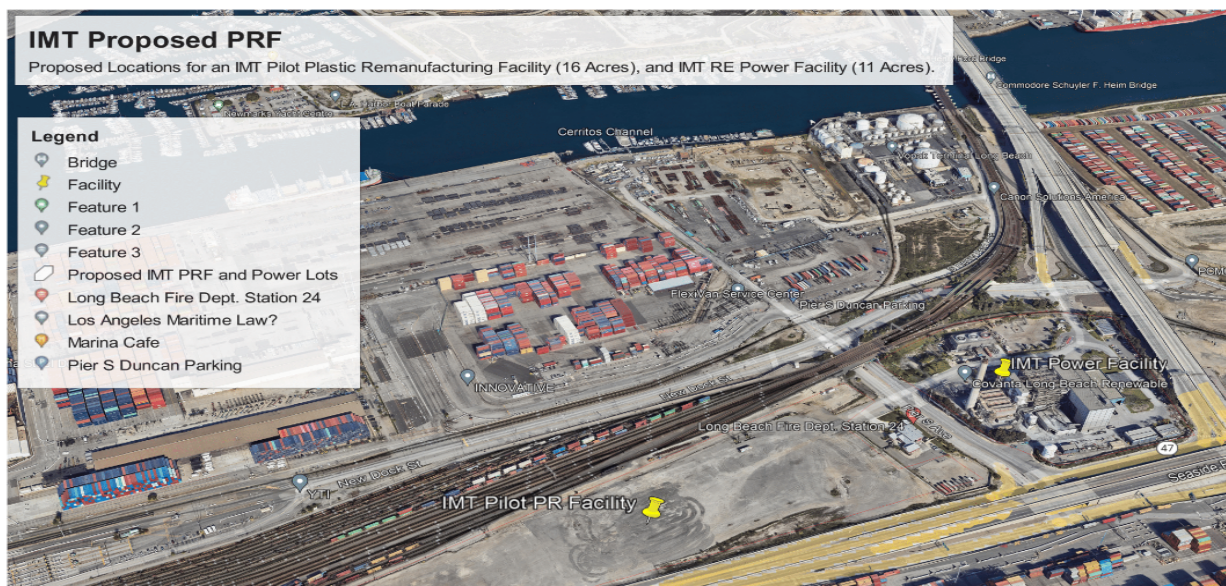
location and the adjacent 16 acres land space available to build this “**Long Beach Environmental Oasis**”.

2. Grandfather the existing 30 years environmental permits to this new environmental development project.
3. Commit to an agreed off -take agreement of end product application that can be used throughout the City of Long Beach for civic and infrastructure city/county improvement projects
4. Provide all available tax and business benefits possible to benefit investment group participation

That will be used to SHOWCASE the IMT Product applications and usage across a diverse variety of physical application usages.

## Online link to this Google Site Map Location of the Long Beach 27 acres located in Long Beach-

Please click link provided to view Google Map site - <https://www.dropbox.com/s/9sd1igvrpj8kboxw/IMT%20Potential%20Pilot%20Facility.pdf?dl=0>



#### **14. Do you have an existing product or will you be co-creating something with the City?**

The IMT program currently has over 200 existing, engineer certified products for government, commerce, industry and residential infrastructure and component use.

The program is focussed on researching, developing and co-creating new products in conjunction with the City, City based entrepreneurs and businesspersons as innovative solutions to locally advised problem issues. These products would be locally certified and be able to be merchandised across Northern America and internationally exported.

#### **15. Is your proposal a technology or tech-enabled solution? (“Tech-enabled” refers to any solution that has a technology component but doesn’t necessarily hinge on any specific technology)**

This proposal is a technology that has been proven to be environmentally and fiscally sustainable in Belgium, Poland, Finland and Australia

#### **16. Briefly describe how you will staff the project and work with the City to manage implementation.**

IMT will co-work with the City of Long Beach in the initiation and implementation of the Remanufacturing Plant.

The project staffing is in two steps:



**Step One-** The operation will initially employ approximately 178 persons with double and triple employee numbers as the plant increases capacity from 40,000tpy to 450,000tpy by the 5<sup>th</sup> to 6<sup>th</sup> year indicatively with over 500 full time employees PLUS as yet uncalculated material delivery and finished goods transport contractor and allied support field employees.

Ex- Military / Veteran's and former City first responders - will have priority employment attention along with currently homeless and unemployed persons of all skill levels)

**Step Two-** The “**Long Beach Science and Educational Learning Center**” – the education center will have between 50-60 full-time employees. With addition staff requirements in both part-time student employee's and volunteer students from both Long Beach State University and Long Beach City College. This site will become a California “ENVIRONMENTAL K-12 Schools” educational learning center for both teachers and student.

**17. Describe what metrics or key performance indicators (KPIs) you would use to track the success of your proposal.**

The IMT Plant Operation will transform the state-wide waste plastics environmental crisis into the environmental repurposing of a landfill bound waste plastic materials into new-life environmental end products application directly benefitting human consumption and lifestyle applications.

**The initial IMT KPIs are:**

Cementing the City of Long Beach and IMT (all facets) agreement to enable approval, initiation and implementation of this proposed project

Instigating an agreement with the City of Long Beach contractors to divert all 7 grades of waste plastic (dirty or clean) from landfill disposal by delivering to the IMT plant.

The attraction, employment and upskilling of 178 persons

**18. Briefly describe how this proposal opportunity will benefit your organization.**

The Long Beach SHOWCASE will physically display the unique machine technology that will create a global sea-change in how other cities, states and countries can replicate the same IMT machine technology in their own backyard.

**19. What could the City learn from conducting your proposed project?**

How to sustain the City environment without waste plastics despoilation into the long-term future

**20. Does your proposal provide any revenue generation opportunities for the City? If so, please explain.**

The proposed equity ownership will be divided on a 20-80 % ownership basis. With the majority ownership going to investment groups and the City of Long Beach. IMT Corp will maintain a 20% equity ownership position to manage and operate the plant processing and manufacturing end products, the sale of end products and the return of used products for again and again reprocessing.

Belgium, Polish and Australian operations conservatively indicate that from every 10,000tpy of end product made from 100% mixed waste plastics - a gross revenue of \$10M dollars in gross revenue is achieved.

As a financial support vehicle for the proposed "The Long Beach Science and Educational Learning Center " five (5%) percent of all end product sales will be annually donated to this 501-c3 entity.

Additional funds will be made available through big-box retailers who will be encouraged to match the 5% donation back to “The Long Beach Science and Educational Learning Center ” via K-12 school sites Californian participation promotion. These donations will help fund the IMT designed Environmental Education K-12 school curriculum - International Environmental Youth Campaign and the Long Beach Annual Environmental Youth Summit

**21.What is the anticipated duration of your pilot proposal, including both set-up and evaluation times?**

It will be approximately 8 months to the IMT / Long Beach Plant Operation commencing reprocessing the mixed waste plastic grades into new-life end product manufacturing feedstock for the Profile and Molding Machines. To this will be added the machinery manufacture, delivery, installation and commissioning time of 12-24 months (due to current international equipment supply delays).

Consequently, the lead in pilot time will indicatively be from 20 to 32 months from receipt of approvals.

**22.What is the associated cost to the City for your pilot proposal?**

As a financial support vehicle for the proposed “The Long Beach Science and Educational Learning Center ” five (5%) percent of all end product sales will be annually donated to this 501-c3 entity.

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The annual renewal of all operational permits are required for plastic operations in the State of California.

**23.What is the anticipated cost to the City once the pilot period is over? Please specify annual or one-time.**

A City of Long Beach and Port Harbor Annual commitment to an end product off-take agreement for the development of to be identified city and harbor end product applications (100% made from California mixed waste plastics) is required.

The City will have an annual income as a yet to be agreed percentage (%) from every pound of end product sold from the plant operation.

Here is a Belgium (Govaplast) Product Catalogue displaying Heavy and Light Building Applications made 100% from waste plastics.

[GovaPlast 2021 Brochure](#)

[Heavy Construction Examples](#)

**24.Please share any other clients of your product or examples of product deployment. You may include links to case studies and promotional materials.**

To help understand how the United States arrived at this ENVIRONMENTAL CRISIS of mixed waste plastics now directly effecting our rivers, streams, forest, oceans and human food chain, please take the time to review the IMT Video Overview Explanation (link below). This video explains why 98% of ALL mixed waste plastics go directly to U.S landfills .

To learn the documented “REAL TRUTH” click here:  
<https://tinyurl.com/IMT-Chinaexposesrecyclingfraud>

Be pre-waned, that this is a 18+ Minute Video – but if you take the time to watch it- you will be better educated/ knowledgeable than 99.9% of the entire global population.

**We invite you to view these company links displaying over 35 years of sustained success in processing and remanufacturing end products from 100% from waste plastic –**

**Belgium based Govaplast : <https://govaplast.com/>**

**Poland Based- Replastik : <https://replastik.pl/home/>**

**Australia Based -Replas : <https://www.replas.com.au/>**

**Case Study Conducted –** on IMT End Product samples made 100% from an Orange County company (SA Auto Vehicle Recycling) using automotive plastic and auto-shredded residual waste which had been landfill bound.

**These automotive reprocessed material end products were tested by the Pennsylvania College of Plastics Technology.**

**Link to Pennsylvania College of Plastics Technology Report**

[ASR Material Testing Pennsylvania College of Plastics](#)

[Auto Shredder Plastic Waste Materials Test](#)

**25. Have you previously contacted any City of Long Beach staff members or Departments? If yes, please list them here.**

**Yes we have -**

Long Beach Sister Cities - Mary E. Barton, Ph.D , Peter Ramirez, Michael Vaughn, Coach Ron Allice, Lisa West/ City of Long Beach and Ralph Santos.

**26. Would you like to subscribe to the Smart City Initiative News & Updates?**

Yes please.

**By selecting 'Yes' below, you are consenting to receive marketing emails from: Technology & Innovation, 333 W. Ocean Blvd, Long Beach, CA 90802, US, <http://www.longbeach.gov/ti>. You can revoke your consent to receive emails at any time by using the SafeUnsubscribe® link, found at the bottom of every email. Emails are serviced by Constant Contact.**

Yes