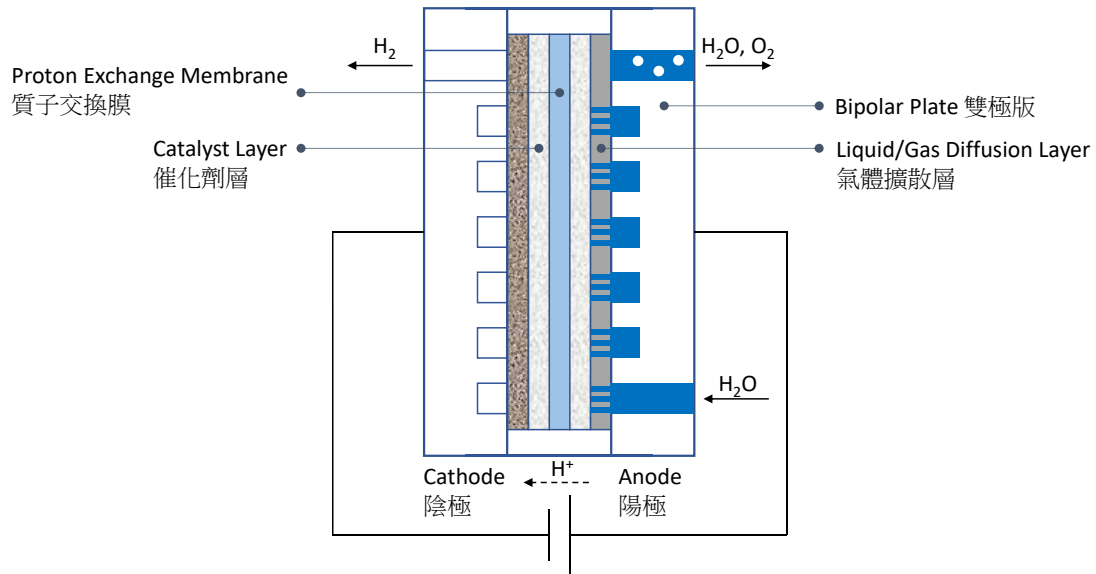


Annex**The first batch of approved applications
in the second round of Green Tech Fund Applications**

Application number	Project titles	Applicant	Approved duration	Grant approved
Promotion of new energy application project				
GTF202110023	A High-Performance Roll-to-Roll Process for the Manufacture of a Novel PEM Membrane Electrode Assembly	iCreate Limited	18 months	\$3,866,033
Promotion of turning waste into resources projects				
GTF202110056	Development of Renewable Energy and Retired EV Battery Solution	Hong Kong Productivity Council	36 months	\$2,942,000
GTF202110116	Carbon-friendly Pneumatic Flow Mixing (PFM) to Rapidly Recycle Waste Mud for Land Reclamation in Hong Kong	The University of Hong Kong	36 months	\$4,901,300
GTF202110158	Low carbon road pavement by maximising material circularity and adopting sustainable materials	City University of Hong Kong	36 months	\$4,197,500
GTF202110282	Manufacturing high-efficiency noise-absorbing materials from recycled plastics	Lumi Technology Company Limited	24 months	\$3,379,200
Promotion of waste recycling project				
GTF202110280	Green Tech Platform for Waste Management and Reduction – Large Scale Reverse Vending Machine for Plastic Beverage Bottles	Roborn Technology Limited	12 months	\$2,518,000
Improvement of roadside air quality project				
GTF202110151	Development of nanotechnology based hybrid air cleaning system towards green transport	The Hong Kong Polytechnic University	24 months	\$5,561,400

**A High-Performance Roll-to-Roll Process for the Manufacture
of a Novel PEM Membrane Electrode Assembly
(Application Number GTF202110023)**



A schematic diagram of the electrolyzer cell

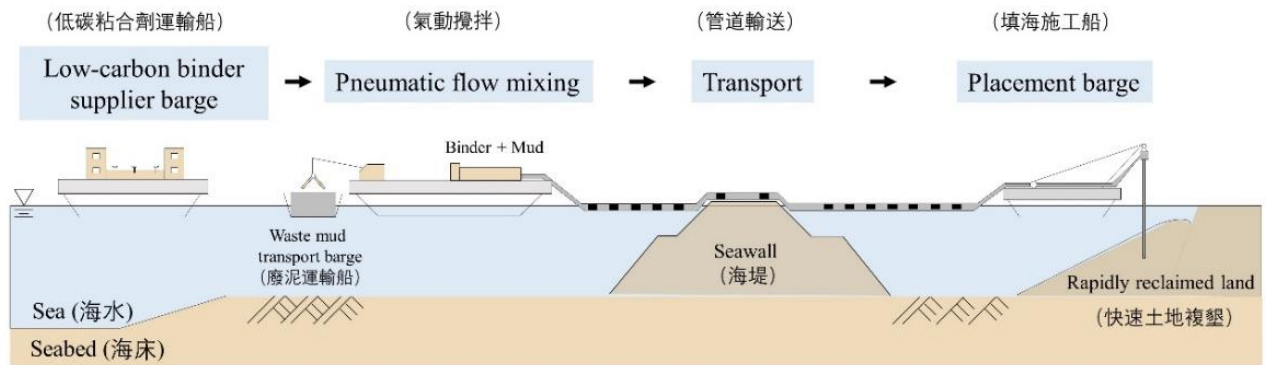
**Development of Renewable Energy and Retired EV Battery Solution
(Application Number GTF202110056)**



Retired EV batteries
SoH different & brands

Energy regenerative system

**Carbon-friendly Pneumatic Flow Mixing (PFM) to Rapidly Recycle Waste Mud
for Land Reclamation in Hong Kong
(Application Number GTF202110116)**

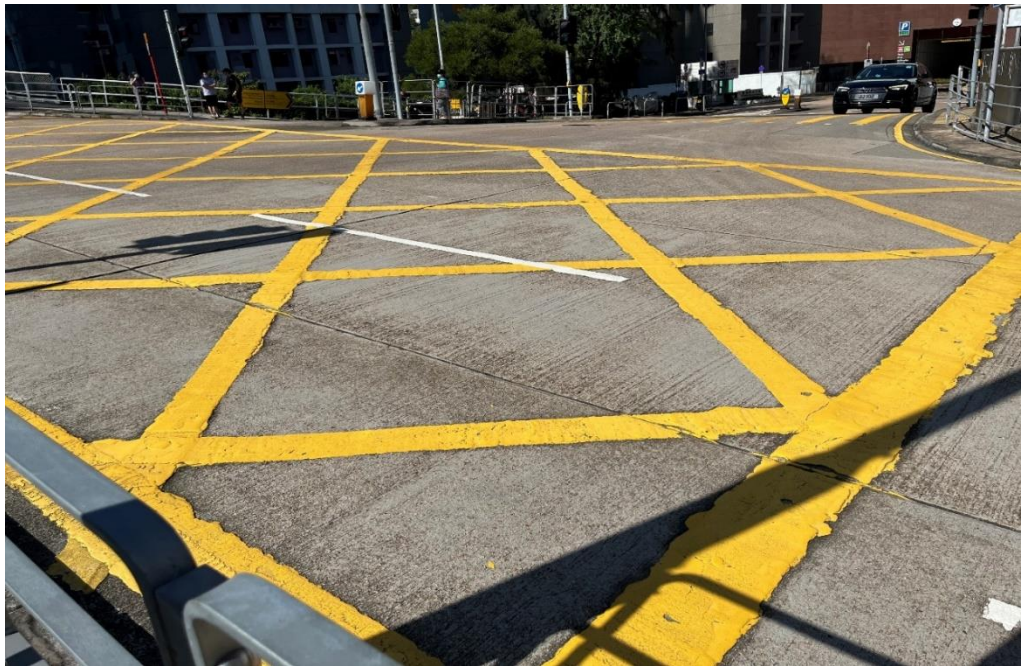


Schematic diagram showing the process of Carbon-friendly Pneumatic Flow Mixing (PFM) to Rapidly Recycle Waste Mud for Land Reclamation in Hong Kong

Low Carbon Road Pavement by Maximising Material Circularity and Adopting Sustainable Materials
(Application Number GTF202110158)



The total area of carriageways in Hong Kong is about 24,000,000 m², and their construction and maintenance are very carbon intensive



The new low carbon road pavement systems will include the use of waste glass, waste tyre, volcanic ash, and recycled concrete aggregates

**Manufacturing high-efficiency noise-absorbing materials from recycled plastics
(Application Number GTF202110282)**

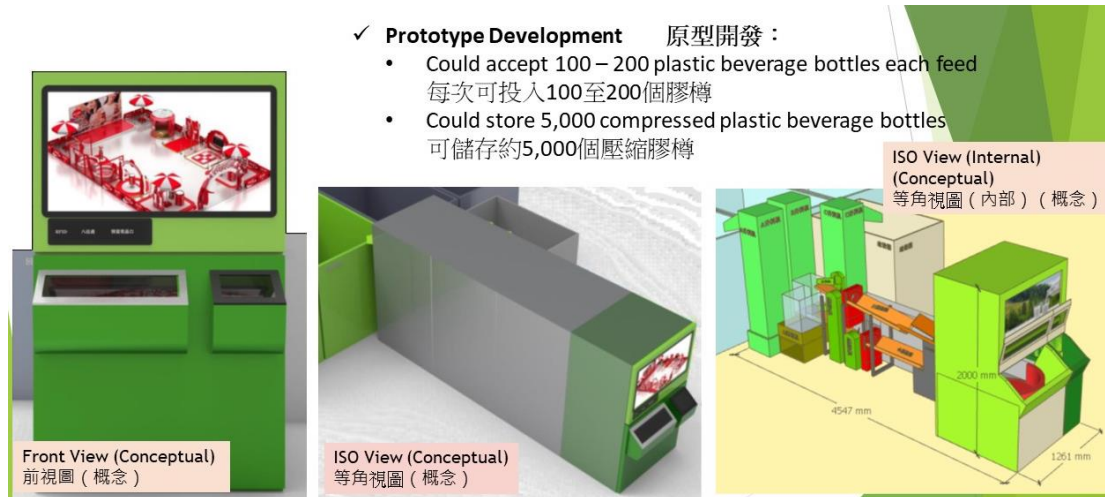


Plastic bottles (left) can be upcycled and made into acoustic metamaterial noise-reducing panels (right) with premium acoustic performance. It can be seen from the middle panel of the wall that the noise reduction material inside is the acoustic metamaterials made of plastics.

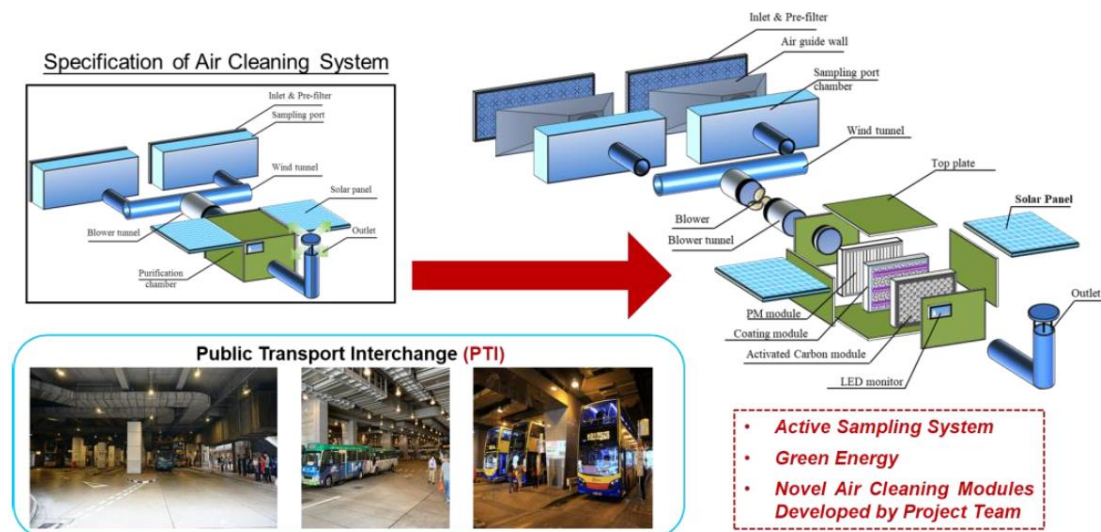


Electromechanical system noise control solution for buildings built by acoustic metamaterial noise-reducing panels.

Green Tech Platform for Waste Management and Reduction – Large Scale Reverse Vending Machine for Plastic Beverage Bottles (Application Number GTF202110280)



Development of nanotechnology based hybrid air cleaning system towards green transport (Application Number GTF202110151)



Design and application of the hybrid air cleaning system for public transport
interchange in Hong Kong