VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND

Community Resilience Grants - First Call for Proposals (CFP-1)

ADAPTATION TECHNOLOGY BRIEFS - 34 OPTIONS FOR YOUR PROJECT

These briefs are the Call's menu of adaptation technologies. Each one tells you, in one page: what the technology is, why it protects you against the changing climate, what it saves you, what your site will need, the technical assistance the Trust can send free of charge to your budget, and an indicative cost you may use directly in your concept note budget. Bundle several briefs to build a larger project within the tier ladder: Tier 1 up to USD 25,000, Tier 2 up to USD 50,000, Tier 3 up to USD 75,000, Tier 4 up to USD 100,000.

Families: Energy (EN-01 to EN-08) · Buildings (BD-01 to BD-06) · Water (WA-01 to WA-05) · Health (HL-01 to HL-04) · Temperature (TW-01 to TW-04) · Waste (TW-05) · Agriculture (AG-01 to AG-03) · Sector bundles (SB-01 to SB-03: the Resilient School, the Church and Community Shelter Hub, and more).

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

ENERGY · EN-01

Grid-Interactive Solar with Battery



Indicative cost: ≈ $22,000 3.2 kW system, installed

What it is

Rooftop or ground-mounted solar panels feeding a battery through a grid-interactive inverter — the building generates and stores its own electricity while staying connected to the grid.

Why it adapts

When the grid goes down in a hurricane, the building keeps power — lights, refrigeration, communications — immediately and for as long as the sun returns. Energy resilience is the difference between a building that shelters people and one that empties.

Money benefits

Spread over the system's life, solar power costs roughly a third of standard utility bills — the panels pay the building back every month.

What you'll need

A sturdy roof with a sun-facing slope; an energy audit first (TA can do it); hurricane-rated mounting; theft and storm risk assessed.

Technical assistance the Trust can send — free to your budget

Energy audit, system sizing, procurement support, installation sign-off

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

ENERGY · EN-02

Small Wind Turbine (Grid-Interactive)



Indicative cost: ≈ $28,500 10 kW turbine, base and wiring. Great for farmers and the outer islands

What it is

A micro-scale wind turbine with battery backup — electricity from the Territory's wind, on your own site.

Why it adapts

Same resilience logic as solar: power through and after outages, from a source no storm can interrupt for long. Suits exposed sites where wind outperforms sun.

Money benefits

Wind power spread over the turbine's life costs a fraction of utility supply — and pairs well with solar for round-the-clock generation.

What you'll need

Wind data for the site (TA can arrange measurement); roof or foundation assessment; hurricane-rated engineering.

Technical assistance the Trust can send — free to your budget

Wind assessment, structural design, procurement, installation supervision

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

ENERGY · EN-03

Portable Solar Back-Up System



Indicative cost: ≈ $7,800 5.1 kWh power station + 3×420 W panels

What it is

A power station charged by fold-out solar panels — stored electricity you can carry to where it's needed.

Why it adapts

Emergency power for lights, phones, internet and refrigeration the moment a storm passes — with no diesel to find, buy or store when supply chains are down.

Money benefits

Replaces a diesel generator and every fuel purchase it would ever need. Silent, no fumes, safe indoors.

What you'll need

Optional transfer switch to feed the building's panel box (an electrician's job); otherwise plug-and-run.

Technical assistance the Trust can send — free to your budget

Sizing advice, procurement support

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

ENERGY · EN-04

Bidirectional / Vehicle-to-Building Charger

Indicative cost: ≈ $2,000 charger, installed

What it is

An EV charger that works both ways: the grid charges the car, and the car can power the building. For everyday charging alone, no infrastructure is needed at all — a 3 kW plug-in charger on a regular 220V socket (about USD 300 landed in the BVI) does the job; the bidirectional unit is the upgrade that lets the car power the building.



The plug-in charger — 13A on a regular 220–230V socket, about USD 300 landed.

Why it adapts

After a storm, an electric vehicle becomes a large battery on wheels — a charged EV can run a building's essential loads for days, cutting downtime to zero.

Money benefits

Charging from your own solar and discharging at peak hours cuts the electricity bill; the vehicle earns its keep parked.

What you'll need

Electrical assessment of the building; conduit to the main panel; requires an electric vehicle (see the EV brochure).

Technical assistance the Trust can send — free to your budget

Electrical assessment, installation sign-off

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

ENERGY · EN-05

Electric Vehicle for Community Services



Indicative cost: ≈ $40,000 compact EV; pair with V2B charger

What it is

An electric vehicle owned and run by the organisation for community resilience services — elder transport, supply runs, emergency response. Charging needs no infrastructure work: a portable 3 kW charger plugs into a regular 220V household socket and keeps the vehicle charged overnight — about USD 300 landed in the BVI.

Why it adapts

Mobility that works when fuel stations don't — charged from solar — and, paired with a vehicle-to-building charger, the community's emergency battery. Petrol and diesel vehicles are on the negative list; the EV is the eligible route to mobility, and using one shows exactly the innovation the Trust scores.

Money benefits

No fuel purchases, minimal servicing — running costs a fraction of a petrol van's, freeing the organisation's own funds.

What you'll need

A regular 220V socket where the vehicle parks (the 3 kW plug-in charger, about USD 300 landed, needs no infrastructure work); a confirmed service route in the Territory; driver arrangements named in the application.

Technical assistance the Trust can send — free to your budget

Procurement and import support, charging design

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

ENERGY · EN-06

Solar Water Heater



Indicative cost: ≈ $3,700 ?? gallon system, installed

What it is

A rooftop collector that heats water directly from the sun — no electricity or gas needed.

Why it adapts

Hot water keeps flowing after a disaster with no power draw — and shifting water-heating off electricity makes any solar PV system smaller and cheaper.

Money benefits

Cuts roughly half the electricity a building spends heating water, every month, for decades.

What you'll need

Hurricane-secure mounting is essential — the tank must be strapped as firmly as the roof itself.

Technical assistance the Trust can send — free to your budget

Installation sign-off

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

ENERGY · EN-07

Energy-Efficient Appliances and LED Lighting



Indicative cost: tbd

What it is

Energy Star appliances and LED lighting replacing old, hungry equipment.

Why it adapts

Cutting a building's energy intensity is adaptation's quiet workhorse: lower demand means smaller solar systems, longer battery life in outages, and less heat generated indoors.

Money benefits

Lower bills immediately — efficiency is the only adaptation that starts paying on day one.

What you'll need

A solid-waste plan for the replaced items (no dumping); incandescent and halogen bulbs are on the negative list.

Technical assistance the Trust can send — free to your budget

Efficiency audit, procurement support

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

ENERGY · EN-08

Occupancy Sensors



Indicative cost:

What it is

Switches that detect an empty room and turn the lights (and cooling) off automatically.

Why it adapts

Every watt not wasted is a watt available in scarcity — small devices that make solar and battery systems go further.

Money benefits

Steady savings for a trivial cost; the fastest payback on this menu.

What you'll need

The building's electrical system to standard; best bundled inside a larger retrofit rather than applied for alone.

Technical assistance the Trust can send — free to your budget

Bundling advice

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

BUILDINGS · BD-01

Roof Reinforcement

Indicative cost:

What it is

Hurricane clips, screws replacing nails, and beam repair — fastening the roof properly to the structure beneath it.

Why it adapts

The single highest-value structural adaptation for most buildings: in a Category 5 event, the roof stays on, and everyone under it stays safe. Losing a roof means losing everything in the building too.

Money benefits

One storm survived pays for the works many times over — and insurers notice reinforced roofs.

What you'll need

Assumes sound walls and foundation; pairs naturally with solar or solar water heating (do the roof first).

Technical assistance the Trust can send — free to your budget

Engineering check, works supervision

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

BUILDINGS · BD-02

Roof Stabilisation — Tie-Down Systems

Indicative cost:

What it is

Strapping the roof to the walls and the walls to the foundation — one continuous load path from ridge to ground. Certified innovations welcome: closed-cell structural adhesives under sheeting, aerodynamic edge guards.

Why it adapts

High winds don't lift roofs — they lift roofs off buildings whose parts aren't tied together. A continuous load path makes the building resist as one object. This is a brief where the Trust actively rewards applicants proposing newer certified stabilisation technology.

Money benefits

Cheaper than re-roofing, invisible when done, and transforms survivability.

What you'll need

Engineer or TA sign-off on the load path design; certified products only — the warranty-and-service-route rule applies.

Technical assistance the Trust can send — free to your budget

Load-path engineering, product certification check, works supervision

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

BUILDINGS · BD-03

Roof Pitch Correction (8/12–9/12)



Indicative cost:

What it is

Rebuilding a flat or low-slope roof to the 8/12–9/12 pitch band — steep enough to defeat uplift, shallow enough to resist overturning.

Why it adapts

Flat roofs fail in hurricanes through uplift; the corrected pitch changes the aerodynamics of the whole building. The definitive fix where reinforcement alone cannot save a badly-angled roof.

Money benefits

A re-pitched roof is a new roof — decades of service and the end of chronic leak repairs.

What you'll need

Structural works: engineer's design is mandatory (TA provides it); planning permission likely — list it in the application.

Technical assistance the Trust can send — free to your budget

Structural design, permits, procurement, full works supervision

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

BUILDINGS · BD-04

Hurricane Shutters — Windows and Doors



Indicative cost:

What it is

Bolt-on colonial shutters protecting every window and door opening.

Why it adapts

A building is only as strong as its weakest opening: one breached window pressurises the building and takes the roof. Shuttered openings keep the envelope closed and the people inside safe.

Money benefits

Windows survive the storm instead of being replaced after it — every storm, forever.

What you'll need

Sound walls to bolt into; count your openings and budget per opening.

Technical assistance the Trust can send — free to your budget

Measurement and procurement support

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

BUILDINGS · BD-05

Window Overhangs / Exterior Shading



Indicative cost:

What it is

Awnings and overhangs that stop sunlight before it reaches the glass.

Why it adapts

As temperatures climb, shading is passive cooling that never breaks and needs no power — the building simply runs cooler.

Money benefits

Less heat in means less cooling to buy: the energy bill falls and stays fallen.

What you'll need

Most effective on east- and west-facing openings and above south-facing glass; sound walls to fix into.

Technical assistance the Trust can send — free to your budget

Placement advice

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

BUILDINGS · BD-06

Community Septic System

Indicative cost:

What it is

A shared central septic system serving two or more buildings under a joint arrangement.

Why it adapts

Enables compact, climate-sensible development — building up, not out — and keeps wastewater out of waterways that flood.

Money benefits

Shared infrastructure means smaller lots, lower per-building cost, and one system maintained instead of many failing.

What you'll need

A joint venture of two or more owners, adequate land, and written joint agreements — a natural community-group application.

Technical assistance the Trust can send — free to your budget

Design, joint-agreement templates, works supervision

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

WATER · WA-01

Seamless Guttering

Indicative cost:

What it is

Continuous gutters formed from a single length — no joints, no seams, no leaks.

Why it adapts

The collection layer of every rainwater system: harvesting starts at the roof edge. Diverting roof water also reduces flooding around the building.

Money benefits

Low maintenance for decades; every gallon collected is a gallon not bought.

What you'll need

Pair with a tank or cistern — gutters without storage collect nothing.

Technical assistance the Trust can send — free to your budget

System sizing

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

WATER · WA-02

Water Storage Tank

Indicative cost:

What it is

A 1,000-gallon tank storing harvested rainwater.

Why it adapts

Water through drought and after storms, when mains supply is least reliable — and captured runoff is flood water that never happened.

Money benefits

A visibly smaller water bill, immediately.

What you'll need

Guttering first; a level base; mosquito-proof screening on every inlet.

Technical assistance the Trust can send — free to your budget

Sizing and installation advice

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

WATER · WA-03

Cistern

Indicative cost:

What it is

A large protected water store — typically underground — fed from the roof through screened pipes.

Why it adapts

The drought-resilience workhorse for schools, churches and larger buildings: weeks of water, protected from heat, animals and storms.

Money benefits

Water security at scale — the building that shares water in a drought is the building the community organises around.

What you'll need

Guttering; site access for excavation; a pump (hand, gravity or electric — solar pairs well).

Technical assistance the Trust can send — free to your budget

Design, excavation supervision

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

WATER · WA-04

Water-Use Efficiency Package



Indicative cost:

What it is

Low-flush toilets, low-flow taps and leak repairs — demand-side water management.

Why it adapts

Cutting demand up to 50% makes every tank and cistern effectively twice the size. The cheapest water resilience on this menu.

Money benefits

Water and pumping-energy bills fall together — water and energy costs move as one.

What you'll need

Running water in the building; fix leaking pipes as part of the package.

Technical assistance the Trust can send — free to your budget

Fixture selection

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

WATER · WA-05

Atmospheric Water Generator

Indicative cost:

What it is

A unit that extracts drinking water from humid air by condensation, filtered to potable standard.

Why it adapts

An off-pipe drinking-water source for clinics, schools and homes — water that arrives even when pipes, trucks and rain do not.

Money benefits

Frees the organisation from bottled-water purchases in every drought and every outage.

What you'll need

Power supply — solar-powered units preferred (and score for innovation); routine filter changes.

Technical assistance the Trust can send — free to your budget

Model selection, import support

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

HEALTH · HL-01

Mesh Screens (Vector Control)

Indicative cost:

What it is

Fine mesh screens over every window and door opening — insects out, airflow in.

Why it adapts

Longer, wetter warm seasons mean longer mosquito seasons: screens are direct, passive protection against dengue, Chik-V and Zika for everyone inside, every day.

Money benefits

Cuts the household insecticide spend to nearly nothing — and lets buildings ventilate instead of running cooling.

What you'll need

Openings able to take frames; measure and budget per opening.

Technical assistance the Trust can send — free to your budget

Measurement, procurement

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

HEALTH · HL-02

Mosquito Traps (Vector Control)



Indicative cost:

What it is

UV light traps that draw and capture night-flying mosquitoes indoors.

Why it adapts

Compact, effective population control inside the building — protection that works while people sleep.

Money benefits

Replaces the endless purchase of sprays and coils.

What you'll need

A power outlet; indoor models can run on a power bank during outages.

Technical assistance the Trust can send — free to your budget

—

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

HEALTH · HL-03

Solar Venting Skylight (Air Quality)

Indicative cost:

What it is

A solar-powered opening skylight that ventilates and daylights interior rooms.

Why it adapts

Hotter ambient temperatures degrade indoor air; ventilation and daylight keep interiors healthy for the people who spend all day in them.

Money benefits

Daylighting cuts lighting bills; ventilation cuts cooling bills; the solar drive costs nothing to run.

What you'll need

Couples naturally with roof works — do them together.

Technical assistance the Trust can send — free to your budget

Roof integration advice

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

HEALTH · HL-04

Air Quality Equipment for Energy-Efficient Buildings

Indicative cost:

What it is

A package for buildings tightened for energy efficiency: an energy-recovery ventilator (ERV) that brings fresh air in while keeping the cooling, a HEPA-grade air purifier, and a smart CO_2/air-quality monitor.

Why it adapts

Efficiency seals buildings — and sealed buildings trap CO_2, humidity, mould and, during Saharan dust events, fine particles. The ERV solves the efficiency paradox: fresh air without throwing the cooling away. The smart monitor is an innovation the Trust scores — it proves, with data, that the building's air is healthy.

Money benefits

Ventilation with energy recovery costs a fraction of ventilation by open window plus AC — the cooling stays inside. Healthier air means fewer sick days in schools, clinics and offices.

What you'll need

Pairs with (and belongs alongside) thermal windows, shading and inverter AC — seal the building and ventilate it deliberately, as one design. Filter changes on a simple schedule.

Technical assistance the Trust can send — free to your budget

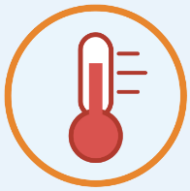
Ventilation design, product selection, import support

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

TEMPERATURE · TW-01

Cooling and Energy Efficiency — the Whole-Building Package



Indicative cost:

What it is

The general efficiency measures that make every other technology on this menu work better: reflective "cool roof" coating, ceiling fans, roof/ceiling insulation, and air-sealing of gaps and leaks — applied as one package after a simple energy audit.

Why it adapts

Efficiency is the first rung of the adaptation ladder: a building that needs less cooling survives heat waves better, runs longer on batteries in an outage, and needs a smaller (cheaper) solar system. A cool-roof coating alone can drop indoor temperatures several degrees — passive protection that works in every blackout. The right order is the innovation: audit → envelope → efficient equipment → renewables — applicants who show this sequencing score for it.

Money benefits

The cheapest kilowatt is the one never used: the package typically cuts cooling demand 20–40%, and every other investment on this menu gets smaller and cheaper because of it.

What you'll need

A TA energy audit first (free to your budget) to pick the measures with the biggest effect for your building; certified coatings and materials only.

Technical assistance the Trust can send — free to your budget

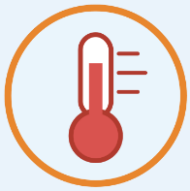
Energy audit, measure selection, works supervision

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

TEMPERATURE · TW-02

Inverter Air Conditioning



Indicative cost:

What it is

Variable-speed air conditioning that modulates instead of switching on and off.

Why it adapts

Rising heat is a health threat — especially hot nights, the elderly and the very young. Inverter cooling protects sleep, health and daytime productivity at the lowest running cost conventional power allows.

Money benefits

Materially cheaper to run than fixed-speed AC; pair with efficiency and shading so cooling never raises the cost of living.

What you'll need

Building-code compliant installation; current-generation refrigerants only — R-22 and ozone-depleting refrigerants are on the negative list.

Technical assistance the Trust can send — free to your budget

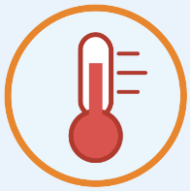
Sizing, installation sign-off

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

TEMPERATURE · TW-03

Solar (DC) Air Conditioning



Indicative cost:

What it is

Air conditioning wired directly to its own solar panels and battery — cooling that can run entirely off-grid.

Why it adapts

Cooling that survives the storm: heat waves and power cuts arrive together, and this unit works through both.

Money benefits

Zero marginal running cost — the sun pays the cooling bill.

What you'll need

Building code and renewable-energy regulations apply; roof space for panels.

Technical assistance the Trust can send — free to your budget

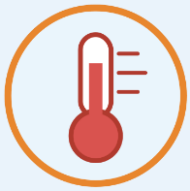
System design, import support

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

TEMPERATURE · TW-04

Thermal Windows



Indicative cost:

What it is

Multi-pane insulated windows — gas-filled or coated glass that slows heat at the glass line.

Why it adapts

Heat that never enters never has to be cooled: thermal glazing hardens the building against a hotter climate permanently and passively.

Money benefits

A smaller cooling load every day the sun shines — which here is most of them.

What you'll need

Building-code compliant installation; budget per opening.

Technical assistance the Trust can send — free to your budget

Specification, import support

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

WASTE · TW-05

Home Biodigester

Indicative cost:

What it is

A sealed backyard unit that turns food scraps into cooking gas and liquid fertiliser.

Why it adapts

Waste management, energy and food productivity in one loop — and cooking that keeps working when gas cylinders can't be refilled after a storm.

Money benefits

Ends LPG purchases for much of the kitchen's work and feeds the garden free.

What you'll need

Outdoor space; a steady stream of organic waste (a community kitchen is ideal).

Technical assistance the Trust can send — free to your budget

Siting and commissioning

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

AGRICULTURE · AG-01

Drip Irrigation Kit



Indicative cost:

What it is

Low-pressure drip lines delivering water to the plant root, on a timer, through a simple filter — fed from a tank, cistern or well.

Why it adapts

Drought is agriculture's climate frontline: drip uses 30–60% less water than sprinklers and keeps crops alive through dry spells that kill open-watered plots. Pairs with rainwater storage (see Water briefs) into a complete drought-proof growing system.

Money benefits

More crop per gallon and per hour — the timer waters at dawn while the farmer does other work; yields rise as water stress falls.

What you'll need

A water source (tank/cistern — fund them in the same bundle); basic layout to suit the plot (TA can design it).

Technical assistance the Trust can send — free to your budget

Irrigation layout, water budgeting, procurement

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

AGRICULTURE · AG-02

Hurricane-Rated Shade House



Indicative cost:

What it is

A shade-cloth growing structure engineered for wind: anchored steel frame, removable or roll-up cloth, hurricane tie-downs.

Why it adapts

Protects seedlings and high-value crops from scorching sun, pounding rain and pests — and, engineered right, the structure survives the storm that destroys open beds and cheap tunnels. The removable-cloth design is the innovation: strip it in six hours before a hurricane and the frame stands.

Money benefits

Extends the growing season, raises seedling survival, and enables higher-value crops — the structure pays for itself in saved replantings.

What you'll need

Level site; engineering-certified anchoring (TA reviews it); a pre-storm strip-down drill named in the plan.

Technical assistance the Trust can send — free to your budget

Structural certification, layout, procurement

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

AGRICULTURE · AG-03

Solar Cold Storage



Indicative cost:

What it is

A small walk-in cold room driven by its own solar panels and battery — refrigeration that runs off-grid.

Why it adapts

Post-storm power cuts destroy harvests and fish catches within hours; solar cold storage keeps food safe through the outage and breaks the sell-today-or-lose-it trap that keeps farm-gate prices low. For fisher and farmer groups this is the single highest-impact shared asset on the menu.

Money benefits

Sell when the price is right instead of when the ice runs out — income smooths and rises; spoilage losses (often 20–40%) collapse.

What you'll need

A group arrangement for shared use (natural cooperative application); siting, shade and door discipline; current-generation refrigerants only (negative list applies).

Technical assistance the Trust can send — free to your budget

Cold-chain sizing, group-use rules, import support

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

SECTOR BUNDLES · SB-01

The Resilient School

Indicative cost:

What it is

A curated bundle for schools: roof reinforcement and stabilisation, shutters on every opening, cistern + water efficiency, grid-interactive solar + battery, mesh screens, air-quality package for sealed classrooms, and shading over outdoor learning space.

Why it adapts

A school is the community's second shelter and its future in one building. This bundle keeps children safe in the event, reopens the school days (not months) after it, and keeps classrooms healthy through hotter terms. The innovation hook is built in: the smart air-quality and energy monitors become live teaching data — the building itself joins the science curriculum.

Money benefits

Lower energy and water bills redirect the school's own budget to teaching; a school that reopens fast saves families weeks of lost work and learning.

What you'll need

The school's governing body as applicant (or a parent–teacher association with the school's written consent); works scheduled to holidays; the two-person rule on the account.

Technical assistance the Trust can send — free to your budget

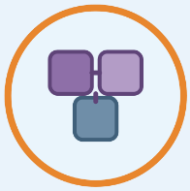
Full engineering audit, phased works plan, procurement, safeguards for works around children

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

SECTOR BUNDLES · SB-02

The Church & Community Shelter Hub



Indicative cost:

What it is

The worked example of this whole pack, formalised: roof reinforcement, shutters throughout, water tank + guttering, portable solar back-up, mesh screens — turning the church or community hall into the certified shelter and coordination point for its district.

Why it adapts

Churches and halls are where communities actually gather in a disaster — this bundle makes the building worthy of that trust: structurally sound, watered, powered and mosquito-screened while the grid and mains are down. Add the EV + V2B pairing and the hub gains mobility and a second battery.

Money benefits

The congregation's own funds stop going to post-storm repairs; a certified shelter strengthens every future funding application the organisation makes.

What you'll need

The registered congregation or association as applicant; a named shelter coordinator; the pre-storm checklist (shutters, water, charge) rehearsed once a year.

Technical assistance the Trust can send — free to your budget

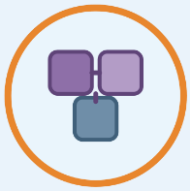
Engineering check, shelter-standard advice, procurement

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.

VIRGIN ISLANDS CLIMATE CHANGE TRUST FUND · ADAPTATION TECHNOLOGY BRIEF

SECTOR BUNDLES · SB-03

Social Inclusion & Accessibility Retrofit



Indicative cost:

What it is

A bundle that makes resilience reach everyone: ramps and step-free access to the shelter and its washrooms, an accessible WASH point, a cooled respite room (inverter AC + efficiency package) for elders and persons with medical needs, grab rails and visual/tactile signage — plus e-mobility support (see the EV brief) for elder and disability transport services.

Why it adapts

Heat waves and storms kill unequally: the elderly, persons with disabilities, pregnant women and young children bear the worst of both. A shelter that some residents cannot enter, or cannot endure, protects only part of the community. This bundle is how an application demonstrates — not just declares — the gender and social-inclusion benefits the Review Committee scores (and reports in indicators, Form B3).

Money benefits

Inclusion widens every other benefit: the same ramp that admits a wheelchair admits a food trolley and a stretcher; the cooled room serves clinics on ordinary hot days.

What you'll need

Consultation with the people the retrofit serves — named in the application; works to accessibility good practice (TA provides the standard).

Technical assistance the Trust can send — free to your budget

Accessibility audit, design to standard, works supervision

How to apply: use this brief to fill the online Concept Note Application Form — the cost above is an acceptable budget estimate; proforma invoices firm it up at Agreement stage. Bundle with other briefs to build a larger project within the tier ladder. Nothing on the Negative List can be bought with grant funds.