

#### Residential Program

Hawai'i Green Infrastructure Authority

#### HGIA – Hawai'i's Green Bank

# Mission: Making clean energy accessible and affordable to "underserved" ratepayers

- State Agency constituted in 2014, attached to the Department of Business, Economic Development & Tourism (DBEDT)
- Administers the Green Energy Money \$aver (GEM\$) Program, an innovative financing program for homeowners, landlords and renters
- HGIA financing programs include:
  - Residential Energy Efficiency & PV
  - Commercial Energy Efficiency & PV
  - State Energy Efficiency
  - HI-CAP
  - On Deck C-PACER



#### How does GEM\$ work?

#### **GEM\$ On-Bill Repayment Program**

- No credit evaluation required: Not a loan
- Oversized systems NOT allowed
  - Savings based on historical consumption, as such oversized system are not able to meet bill savings requirement
- Obligation tied to the utility meter (not a person)
- Immediate estimated bill savings (tiered 5%, 10% or 15%) required
- Payments conveniently made on your monthly electric utility bill
- Interest rate of 5.50% fixed for 20 years.
  Amortization based on occupancy type.
- Customers electricity may be disconnected due to non-payment

#### **Third Party Owned Systems**

- For Energy Efficiency installations, Contractor must be a Hawaii Clean Energy Ally and the EE must be on Hawaii Energy's approved list for both on-bill and third-party owned, as applicable
- Landlords/Investors are considered "Borrowers" and undergo traditional underwriting and loan execution
- Investor PPAs allow an Offtaker to assume debt, to purchase the system, maximizing energy savings
- 20% estimated immediate bill savings required

#### **Benefits:**

- **✓** Fixed Interest Rates
- ✓ Encourage leveraging GEMS funds with bank financing

- **✓** Up to 100% Financing No Money Down
- **✓** Up to 20-Year Terms
- **✓** No Prepayment Penalties



#### **GEM\$** Applications Process

#### **STEP 1: PARTICIPANT ELIGIBILITY**

- Low and moderate income households
- Utility account for at least 6 months

#### **STEP 2: PROJECT ELIGIBILITY**

- Energy Improvement (EI) must be on the Approved EI List
- Post-installation, the EI must provide an estimated minimum tiered utility bill savings of 5%, 10% or 15%

**STEP 3: Execute Program Documents** 

**STEP 4: Notice to Proceed Letter** 

**BEGIN INSTALLATION** 



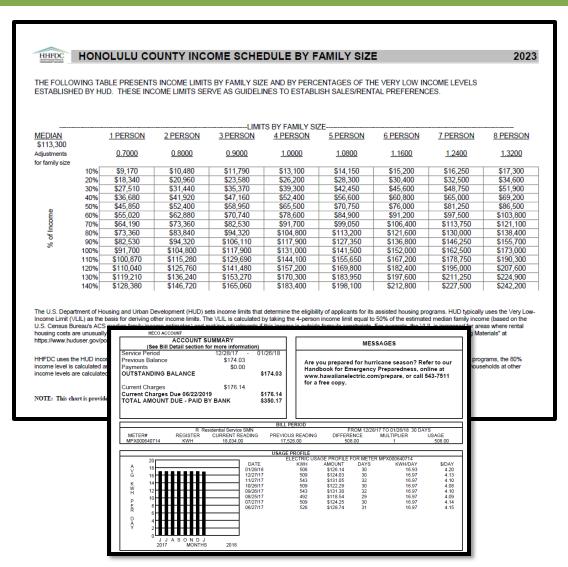
# STEP 1 APPROVAL: IS MY CUSTOMER ELIGIBLE FOR GEM\$?

## Requirements

- Low and moderate income: less than 140% of US Department of Housing & Urban Development (HUD) Area Median Income
- Number of disconnection notices determines minimum estimated saving threshold requirement

# Disconnection	Tiered Estimated Bill
Notices	Savings Requirement
0	Minimum 5% Savings
1-4	Minimum 10% Savings
5+	Minimum 15% Savings

- Estimated post-installation utility bill including loan repayment must be 5, 10, or 15% below current bill
  - Estimated with 12 months of historical data
  - Applicants with at least 6 months of historical data may be accepted

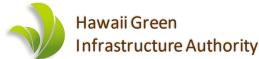




#### **Contractor Checklist**

- Use our contractor checklist as a guide
- Customer application
  - https://hawaiigems2020.my.site.com/s/
  - Application, authorization to release information, privacy notice
- Customer must upload Utility Bill, Government ID, Long-Form Trust (as applicable), DHHL Lease (as applicable), EV registration & vehicle inspection (as applicable)





# Step 1 Eligibility

 After customer applies via GEM\$ website and confirms email, Step 1 Eligibility decision sent to customer and contractor within a week





 Approval letter: valid for 30 days for you to submit project information



Request for Additional Information: 30 days





# STEP 2 APPROVAL: IS THIS PROJECT ELIGIBLE FOR GEM\$?

# Project Requirements

- Estimated minimum tiered bill savings, including financing costs
- Eligible Energy Improvement (EI):
  - Residential Installations:
    - Solar PV Systems
    - Solar Thermal Water Heaters
    - Solar PV Water Heaters
    - Heat Pump Water Heaters
    - Energy Storage Systems
- As applicable, PV Systems may be sized to accommodate new EV Load
- El projects may be bundled to meet Tiered
  Bill Savings Requirement

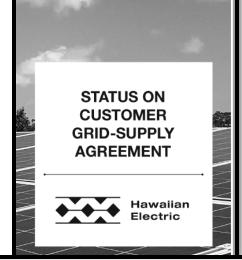
Step 2: Project Eligibility Items required from Homeowner or Landlord and/or Contractor to HGIA: For Solar PV Installations: ☐ Executed Sales Contract or Addendum signed by contractor and Property Owner(s) ☐ System Cost: \$\_\_\_\_\_ (may not exceed \$4.50/Watt) ☐ System Size: \_\_\_\_ kW □ Inverter Size: \_\_\_\_ kW ☐ Estimated Year 1 Production: kWh (may not exceed annual historical kWh consumption from utility bill) □ Equipment description (# panels, # inverters, make, model, monitoring □ 10-year Workmanship Warranty □ 20-year Manufacturer's Warranty ☐ Conditional Utility Interconnection Approval ■ NREL PV Watts Calculator ( https://pvwatts.nrel.gov/ ) Printout PV Watts Calculator Certification completed and executed by the Contractor (include an explanation if the tolerance exceeds +/- 10%) ☐ For NEM+, provide the following information on the existing solar PV system: ☐ Year solar PV system Installed: \_\_\_\_\_ □ System Size: kW For Solar Thermal and Solar PV Hot Water Heaters: Determine if Homeowner or Landlord will utilize Hawaii Energy rebate to buy-down the cost of the installation or buy down their GEM\$ interest rate Apply rebate to Installation Cost. ☐ Copy of completed Hawaii Energy Rebate Application with Work Order # □ Apply rebate to GEM\$ Interest Rate ☐ Executed Sales Contract or Addendum signed by contractor and Property Owner(s) 1-year Workmanship Warranty □ 10-year Manufacturer's Warranty on Solar Hot Water panels and collectors Equipment description (panels, tank size, etc.)

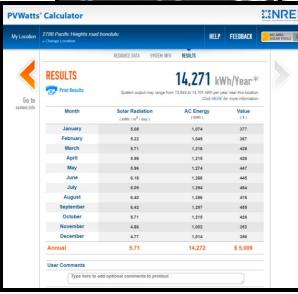


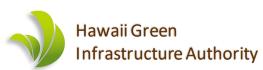


## Step 2 Solar PV Project Documents

- Executed PV sales contract which includes the following:
  - System cost (cost of the PV system, excluding batteries, may not exceed \$4.50 per watt)
  - Battery cost if an energy storage system is included
  - Any discounts or down payments
  - System size
  - Equipment description and applicable warranties
- Conditional Utility Interconnection Approval indicating which Interconnection Program you will be applying for
- Estimated kWh production in Year 1:
  - PV Watts Calculator printout from the NREL website: <a href="https://pvwatts.nrel.gov/">https://pvwatts.nrel.gov/</a>
  - PV Watts Certification comparing estimated Year 1 production to NREL's estimate
    - Variances greater than 10% must be provided on PV Watts Certification form found on your contractor portal
- Up to 20% of other costs may be financed (roof repair, meters upgrade, etc.)
  but additional costs will be factored in determining the required bill savings







#### Step 2 Solar Hot Water Documents

- Executed contract detailing cost, tank size, equipment description and all applicable warranties
- Customers have options on how to use the Hawaii Energy rebate
  - If applied to the cost of the system, documentation must be provided showing Hawaii Energy Solar Hot Water work order number has been issued,
  - If used to buy-down the interest rate on the loan, HGIA will submit the necessary paperwork to Hawaii Energy



**PARTICIPATING LENDERS** 

Hot water, Cool rates



## **Application Approval**

- Criteria met → Approval
- Insufficient savings → Denial Letter or Deny-Counter-Offer Letter



\* Post-approval changes (size, interconnection, production, etc.) → approval is **VOID** → re-analysis by HGIA → re-issued approval or denial



# GEM\$ PROGRAM DOCUMENTS, NTP, AND FUNDING

## Final Approval Letter & Program Docs

#### After approval, customer receives:

- Final approval letter
- Participant Agreement
- Request for Insurance Authorization
- System Monitoring Authorization
- Purchase Money Mortgage Documents for land court property, if applicable
- Certification of Trust, if applicable
- Attestation to Purchase EV, if applicable



GREEN ENERGY MONEY \$AVER ("GEM\$") ON-BILL PROGRAM					
		ntial Homeowner)			
(residential Forteswher)					
Participant Name(s):					
Mailing Address:					
Service Address:					
Phone Number (1):		Phone Number (2)	:		
Email (1):		Email (2):			
Utility Account #:		Premises No.:			
Property Owner(s):					
Property Owner(s):					
Property Owner(s):					
Property Owner(s):					
Contractor Name:					
Contact Name:					
Phone:					
Email:					



#### Final Approval Letter & Program Docs

# Upon receipt of executed program docs, Notice To Proceed (NTP) sent to contractor

- Includes authorization for HGIA monitoring
- You will have six months to complete installation (or until expiration date of conditional utility interconnection approval)
- Please note that GEM\$ will not finance projects that are already energized
- Progress Payment (if 50/50 progress payment option previously elected)
  - Requires approved building permit and homeowner's certificate of insurance



1/15/2020

Mr. Solar Man "GEMS Approved Contractor" 101 Contractor Road Honolulu, HI 96813

Dear Mr. Solar Man

This is to inform you that the Hawaii Green Infrastructure Authority has received all of the required documentation for you to proceed with installing the GEMS approved Energy Improvement for:

Minnie Mouse 1 Disneyland Way Honolulu, HI 96813

This letter authorizes you to proceed immediately with the installation of the system. Once the installation is complete, the following items are required before loan funding:

- Closed Building Permit
- \* Executed Utility Interconnection Agreement (if applicable)
- \* Executed Completion Certificate and Customer Warranty
- Certificate of Insurance naming HGIA as loss payee (from Participant)
- \* HGIA's receipt of PV Production data from installed solar PV system automatically emailed to dbedt.gems@hawaii.gov (per the Participant's System Monitoring Authorization sent with this letter).



# Final Funding

#### **Upon project completion:**

- Closed building permit
- Final utility interconnection approval with Permission to Operate
- Final Executed Sales Contract
- Completion Certificate signed by an authorized signer for your company and your customer
  - GEM\$ obligation amount and the contract price this needs to match the Final Approval Letter
- As applicable, either:
  - HGIA system monitoring access for installed solar PV system
  - OR Hawaii Energy Rebate form for solar hot water installations



#### **Solar Hot Water**

#### Hawaii Energy Rebate-Interest Buy Down Program:

 Projects must be eligible for Hawaii Energy Rebates and the customer has the option of using the Rebate to lower the cost of the system, or to buy down their interest rate.



# Mahalo!

#### **Hawaii Green Infrastructure Authority (HGIA)**

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