

Portside Air Quality Improvement and Relief (PAIR) Program

Program Overview

***Programa para
Mejorar la Calidad del
Aire y Ofrecer Alivio
(PAIR por sus siglas en
ingles)***

Resumen del Programa

Land Use and Environment Group – Air Pollution Control District

The USS Bonhomme Richard Navy Ship Fire in July 2020 exposed vulnerabilities within the Community Air Protection Communities (as designated pursuant to Assembly Bill (AB) 617). To address these concerns, a one-time allocation of funding for both residential air purifiers and Purple Air residential monitors would be granted for up to 1,000 residents of the Portside Environmental Justice AB 617 community for residential and community monitoring. Funds may be needed to acquire an outside research entity to gather and analyze data.

Recommendation:

- 1.) Establish appropriations of \$550,000 in the Land Use and Environment Group Executive Office, Operating Transfer Out, for residential air quality monitoring, air purifiers and data analysis, based on available prior year General Fund fund balance and establish appropriations of \$550,000 in the Air Pollution Control District for residential air quality monitoring, air purifiers and data analysis, based on an Operating Transfer In from the General Fund.

BACKGROUND

- \$550,000 (one-time funding)
- Requested by County Supervisor Nathan Fletcher - Budget Change Letter (August 19, 2020)
- Approved in FY20-21 Budget for San Diego County

SPANISH

- \$ 550,000 (financiamiento único)
- Solicitado por el supervisor del condado Nathan Fletcher - Carta de cambio de presupuesto (19 de agosto de 2020)
- Aprobado en el presupuesto del año fiscal 20-21 para el condado de San Diego

PROGRAM HIGHLIGHTS

- Filters and monitors for residents of Portside community
- Competitive bid process
- Stipends for electrical/internet costs
- Extra filters for up to 2 years
- Data assessment

ELEMENTOS DEL PROGRAMA

- Filtros y monitores para residentes de la comunidad de Portuaria
- Proceso de licitación competitivo
- Estipendios para costos de electricidad / internet
- Filtros adicionales hasta por 2 años
- Evaluación de datos



AIR FILTER SELECTED

Blueair Blue Pure 311 Auto

- Covers a medium-sized room
- Filters air 5x an hour
- Highly rated; CARB certified; HEPASilent three-part filtration
- One button operation, or "Auto" feature automatically turns unit on/off when PM levels are high
- Quiet and energy efficient
- 2-year warranty
- 6-month filter life (when running 24 hrs/day) and includes 3 extra filters



FILTRO DE AIRE SELECCIONADO

Blueair Blue Pure 311 Auto

- Cubre una habitación de tamaño mediano
- Filtra el aire 5 veces por hora
- Altamente calificado; Certificado CARB; Filtración silenciosa en tres partes
- Funciona con un botón, o la función "Auto" enciende / apaga automáticamente la unidad cuando los niveles de PM son altos
- Silencioso y energéticamente eficiente
- 2 años de garantía
- Vida útil del filtro de 6 meses (cuando funciona las 24 horas del día) e incluye 3 filtros adicionales

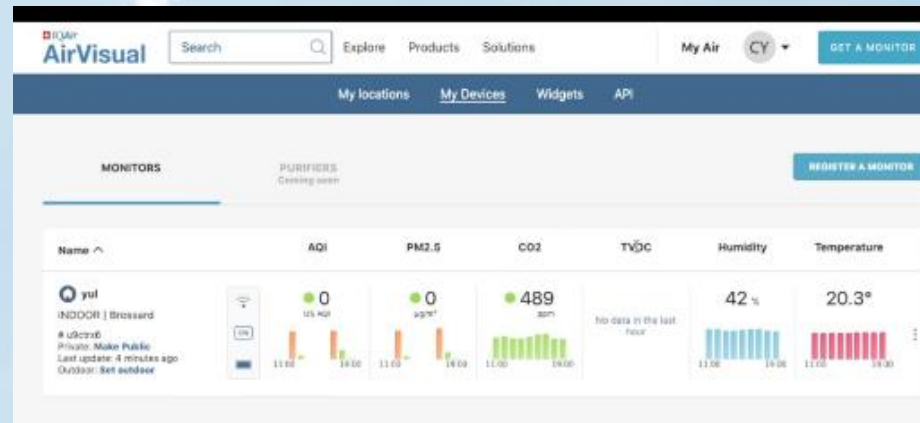


373 ratings

AIR MONITOR SELECTED

IQAir AirVisual Pro

- Highly rated/user friendly
- No phone/computer required
- Monitors indoor PM2.5, Carbon Dioxide, humidity, temperature, and weather
- 3-day air quality forecasts, historic air data
- Recommendations to turn on air purifier
- Shows “outdoor” air quality readings from closest regulatory air monitor
- 4-hour battery life (if needed)
- 1 year warranty



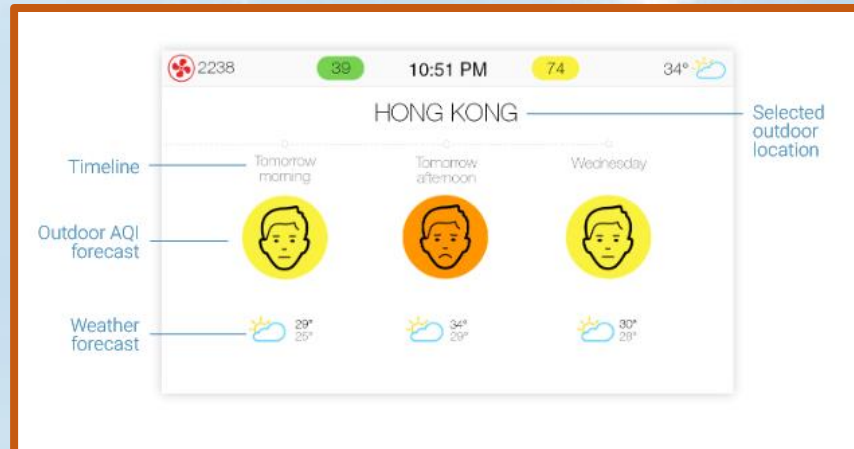
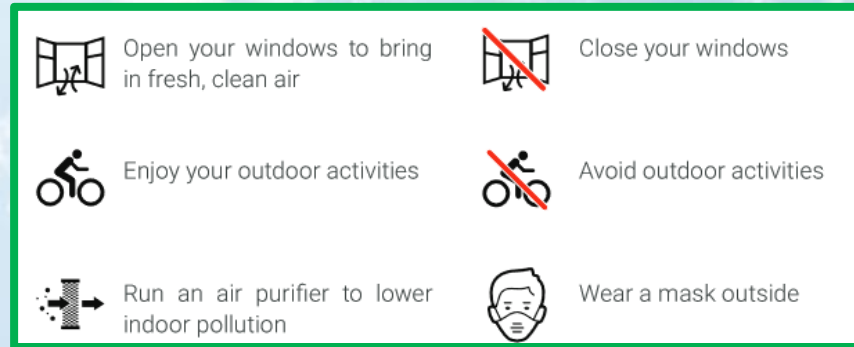
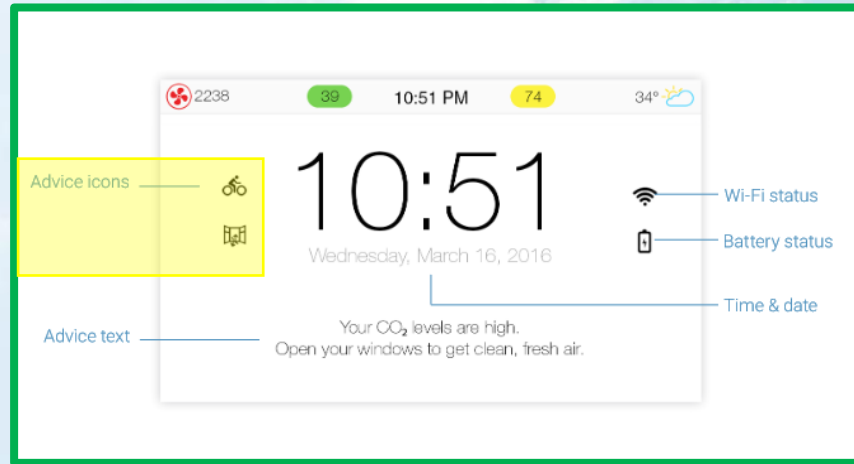
MONITOR DE AIRE SELECCIONADO

IQAir AirVisual Pro

- Altamente calificado / fácil de usar
- No se requiere teléfono / computadora
- Monitorea PM2.5, dióxido de carbono, humedad, temperatura y clima interiores
- Pronósticos de calidad del aire de 3 días, datos históricos del aire
- Recomendaciones para encender el purificador de aire
- Muestra lecturas de la calidad del aire "exterior" del monitor de aire regulatorio más cercano
- Duración de la batería de 4 horas (si es necesario)
- 1 año de garantía

AIR MONITOR SELECTED

IQAir AirVisual Pro



MONITOR DE AIRE SELECCIONADO

IQAir AirVisual Pro

• Offline (*not connected to Wi-Fi*)

- Measures PM2.5, CO₂, Temp, Humidity
- Air Quality Index (AQI)
- **Air Quality Recommendations**
- 24-hour historical graphs

• Online (*connected to Wi-Fi*)

- Everything above
- **Outdoor regulatory monitor AQI and 3-day outdoor AQI forecast**
- Weather
- Data sent remotely to IQAir and APCD

• Sin Conexión (*sin conexión a Wi-Fi*)

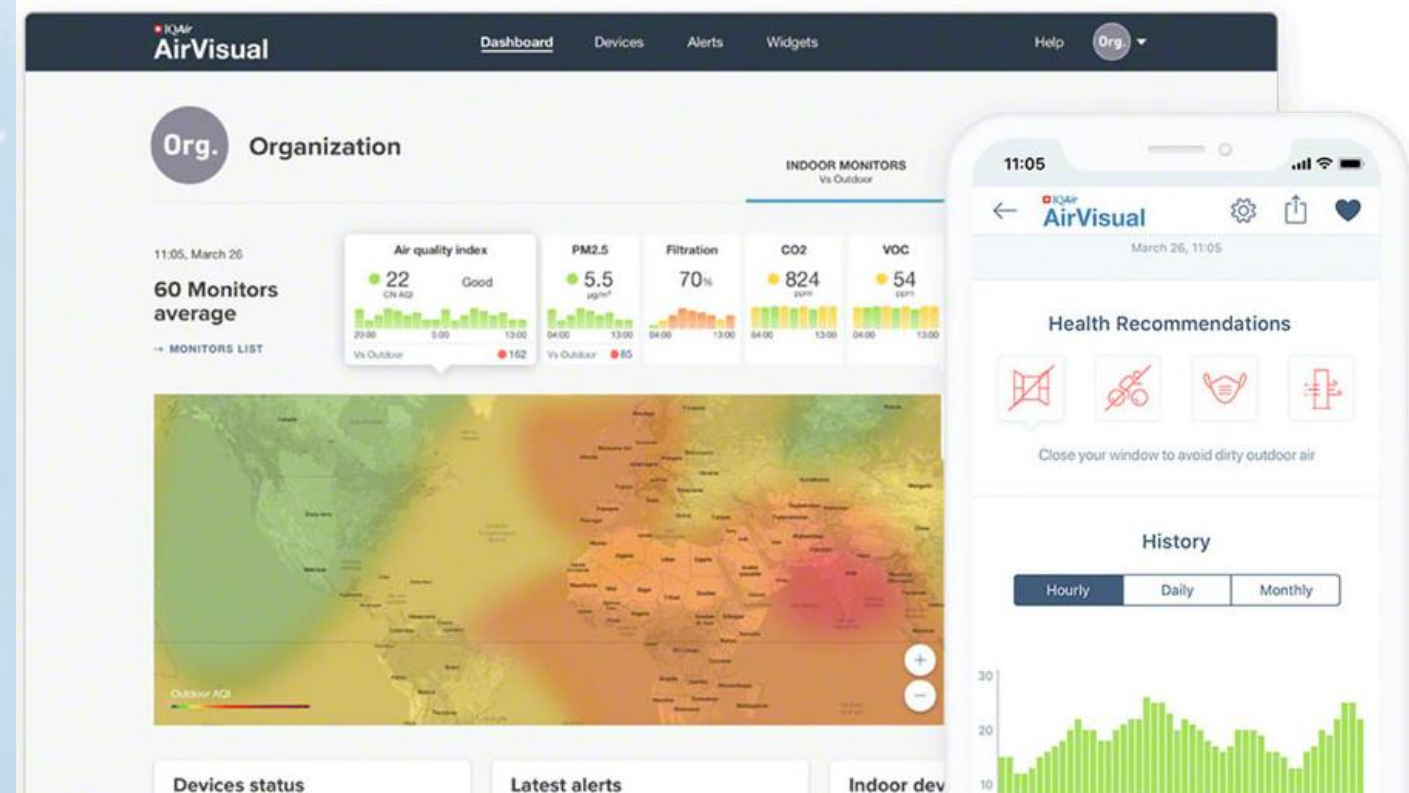
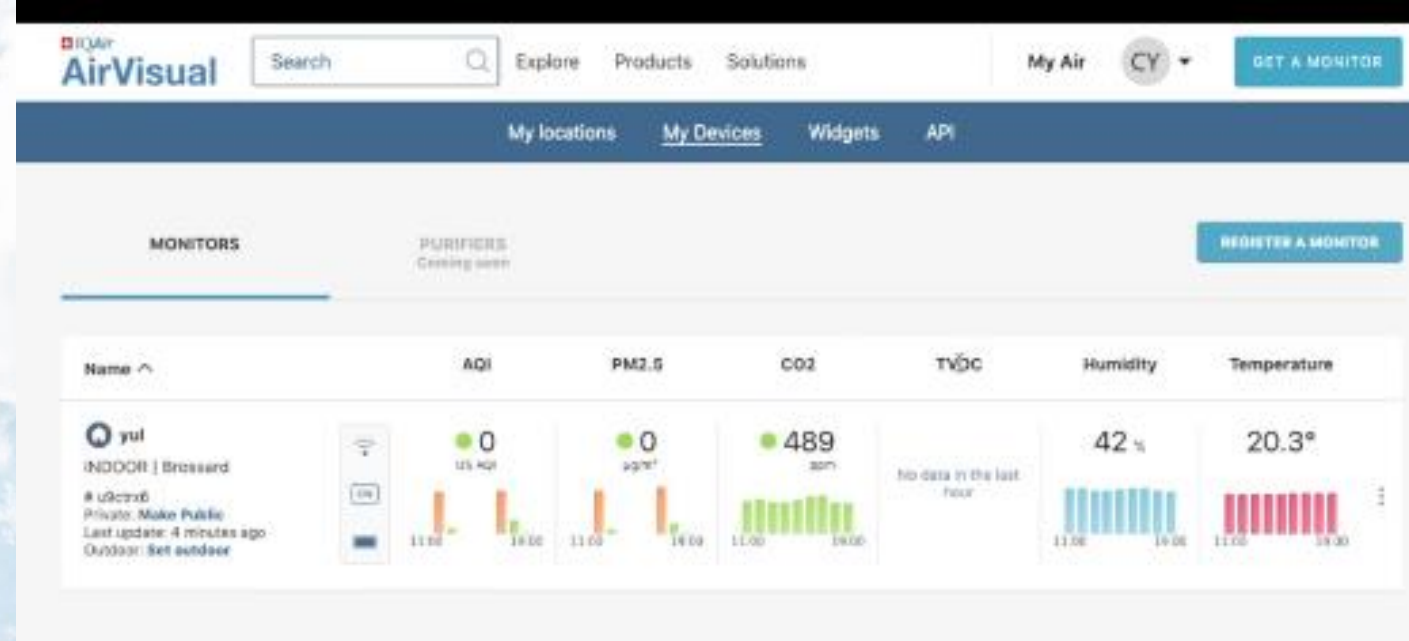
- Mide PM2.5, CO₂, Temperatura, Humedad
- Índice de Calidad de Aire (AQI)
- **Recomendaciones de Calidad de Aire**
- Gráficos de datos históricos de 24 horas

• En Línea (*connectsdo a Wi-Fi*)

- Todo lo de arriba
- **Monitor regulatorio de aire exterior AQI y pronóstico de AQI exterior de 3 días**
- Clima
- Datos enviados de forma remota a IQAir y a el APCCD

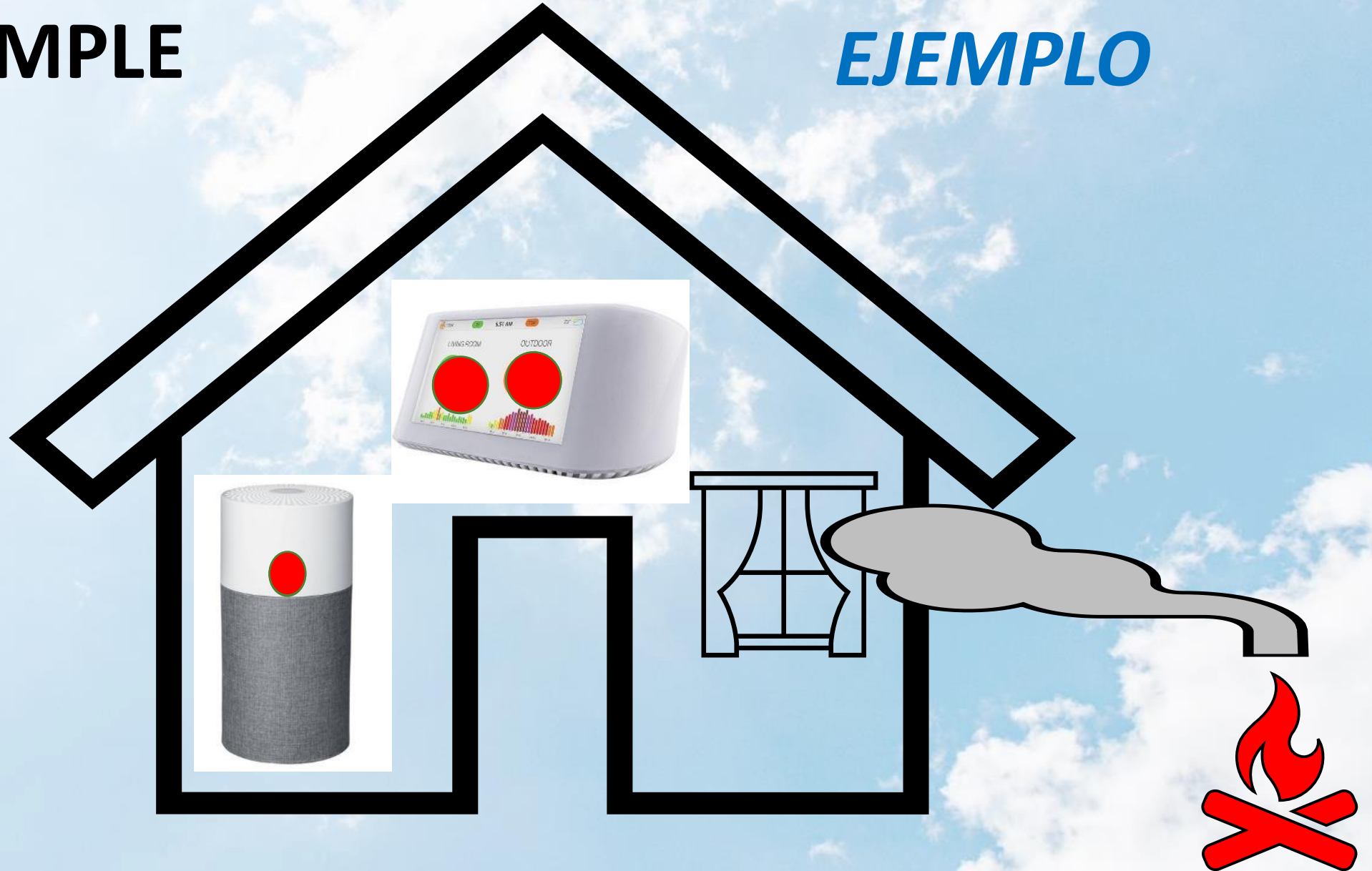
APCD subscription to IQAir Enterprise Dashboard / *Suscripción a IQAir Enterprise Dashboard*

- Primary source of data collection; all remote via internet connection (when connected to Wi-Fi)
- Hourly/minute data for PM2.5, CO2, Humidity, Temp, and Weather
- Ability to control/review monitor settings remotely
- 1 year subscription for APCD; flat fee based on number of devices in network
- *Fuente principal de recopilación de datos; todo remoto a través de la conexión a Internet (cuando está conectado a Wi-Fi)*
- *Datos por hora / minuto para PM2.5, CO2, humedad, temperatura y clima*
- *Capacidad para controlar / revisar la configuración del monitor de forma remota*
- *Suscripción de 1 año para APCD; tarifa plana basada en la cantidad de dispositivos en la red*



EXAMPLE

EJEMPLO



STATUS & TIMELINE

- Filter and Monitor vendors now under contract with APCD
- In process to find and execute contract with Program Administrator
- Next Steps (tentative):
 - Fall 2021 - Program outreach
 - Spring 2022 - Program opens
 - Summer 2022: Equipment delivered
 - 2023: Data collection and assessment

ESTADO Y CRONOGRAMA

- Proveedores de filtros y monitoreo ahora bajo contrato con APCD
- En proceso de encontrar y ejecutar el contrato con un administrador para el programa
- Próximos pasos (provisionales):
 - Otoño de 2021: Alcance a la Comunidad
 - Primavera de 2022 - Se abre el programa
 - Verano de 2022: Equipo entregado
 - 2023: Colección y evaluación de datos

**THANK YOU!
QUESTIONS?**

***¡GRACIAS!
¿PREGUNTAS?***

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A bright blue sky with scattered white clouds. The clouds are fluffy and vary in size, with a large, prominent one in the upper center and several smaller ones scattered throughout. The sky is a clear, vibrant blue.

**BACKUP
SLIDES**

Stipend Cost Assumptions

Supuesto de costo de estipendio

Air Filter Energy Costs

Costos de energía del filtro de aire

<https://reviewsofairpurifiers.com/air-purifier-electricity-consumption-calculator/>

Air Purifier Electricity Cost Calculator:

Rated Power of the Air Purifier: * Watt

Cents per kilowatt hour (kWh): * cents

Find your local electricity rate by State.

Daily usage in hours:

Monthly Electricity Usage:

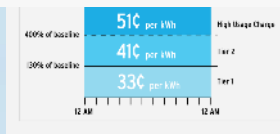
Monthly Electricity Cost:

Note: An air purifier operates at maximum power when it runs on its highest fan speed settings. So the calculated electricity usage and the bill is the maximum from that air purifier.

Energy Star Data:

Annual Energy Use (kWh/year)@:	174.6855238095
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Assumptions:
 SDG&E charges 33 cents per kWh
 (standard plan, using as average)
 BlueAir maxes out at 34 watts



Yearly Electricity Cost: \$58-97

Internet Costs (Straight Talk Wireless)

Costos de Internet (Straight Talk Wireless)

Cart 1 items

NEW LINE

Moxie Mobile Hotspot
 \$89.99

Data Plan Nationwide
 30 Days | 10 GB
 \$50.00/mo
 Turn on Auto Refill (requires login)

Order Summary

SubTotal: \$99.99
 Discount: \$0.00
 Shipping: \$0.00
ORDER TOTAL: \$99.99
 Due Today: \$99.99

Order Total: \$99.99 **CHECKOUT**

Data Plan
 Nationwide
 ★ ★ ★ ☆ ☆ (68)

\$50 /mo
 60 days of service

10GB
 Wireless Internet Connection

SELECT PLAN

[See Detail](#)

Hotspot device + 60 days of data = \$99

After covered 60 day period = \$15 a month minimum for residence (voluntary)