GREEN INFORMATION TECHNOLOGY PLAN STATUS REPORT

City of San José – Smart Cities and Service Improvements Committee – June 2, 2022





Pillar 1

A Sustainable & Climate Smart City

Pillar 2

A Vibrant City of Connected & Focused Growth

Pillar 3

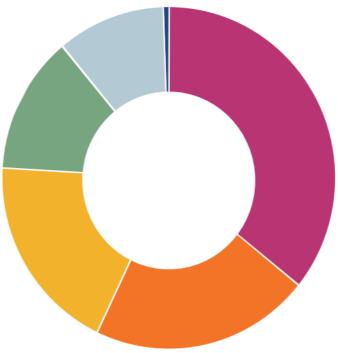
An Economically Inclusive City of Opportunity

The "Why"

Green Technology Impact

San Jose 2018 Municipal Operations GHG Emissions Breakdown Report:





Employee Commute / Buildings and Facilities make up 41% of GHG emissions

The "What"

Green Technology Goals



Reduce Equipment Carbon Impact



Reduce Print Consumables



Reduce e-Waste



Reduce Commute Carbon Impact



Cloud Based Computing

Device Consolidation Per Employee Reduce Paper Printouts and Paper Copies

Employ e-Waste Handling Practices

Green Technology Goals



Reduce Equipment Carbon Impact



Reduce e-Waste



Reduce Print Consumables



Reduce Commute Carbon Impact

Server Reduction	Server Consolidation	MFD Replacement	Laptop Device Standard
Cloud Telephony	1:1 Device to	Digital Print/Fax/Scan	Standard Laptop
	Employee		Distribution

Cloud Storage

Digital Forms



Server Reduction and Consolidation

- Annual power saved: ~1,504,530 kWh
- CO² metric tons: ~1,066
- Homes powered for one year: 140

Cloud Telephony

- Annual power saved: ~173,448 kWh
- CO² metric tons: ~123
- Homes powered for one year: ~16

Cloud Storage

- Rack space reduced: 95%

Device Consolidation Per Employee



Legacy Device Replacement

 500 devices recycled or replaced with laptops

Maintain 1:1 Device to Employee Ratio

- 1.32 device reduction per employee
- Annual power saved: ~468,356 kHw
- CO² metric tons: ~332
- Homes powered for one year: 43

Mobile Laptop Standards

- Standard laptop issue (vs desktop)
- EnergyStar rated
- Supports hybrid work model (less commute time)

Reduce Paper Printouts and Paper Copies

MFD Replacements

- Reduce annual costs ~\$500K through lease and consumables
- Secured printing
- Reduced tree consumption by ~470
- EnergyStar rating EPEAT GOLD

Digital Print / Fax / Scan

- Scan direct to digital transit
- ~21% reduction of paper

Digital Forms

- Convert 54 existing paper forms
- Online forms and e-approvals
- Paper reduction since 2020: ~90564



Employ E-waste Handling Processes

E-waste - used electronics that are nearing the end of their useful life, have heavy metal components that can be toxic, and need to be discarded

Source Reduction

Reuse

Recycle

Green Technology Total Impact



Reduce Equipment Carbon Impact

- Annual power reduction ~2,557,818 kWh ↓
- Equivalent to ~238 homes powered annually
- Total CO² emissions: 1,813 metric tons ↓



Reduce Print Consumables

- \$500,000 saved annually
- 25% ↓ of total wood and consumables
- Over 1 million print jobs saved annual



Reduce e-Waste

- Core equipment reduced qty 44% ↓
- End user equipment reduced qty 12% ↓
- Repurpose surplus equipment for reuse
- Recycling best practices



Reduce Commute Carbon Impact

- 1.08:1 device to employee ratio
- EnergyStar laptop standard issue
- Mobile-ready technology

Green Technology Teams







Questions and Feedback?