

Countries	Organisations	Since when?	Where?	Why?	What's in the kit?	What are the tools for?
AUSTRALIA	South Australia Dept of Prime Minister & Cabinet	2002-03	Most public libraries - have 95% saturation	Help individual households with energy auditing. Provide greater access & availability to communities via libraries	Appliance meter, infrared thermometer, spirit thermometer, compass, stopwatch, guide	Measure stand-by power, temperature of hot water and cold spots in room, room and fridge/freezer temperature, direction of home for passive solar heating, water flow rate from shower, information
	ACT Smart	?	Several libraries in ACT	Assess energy and water use to become more efficient and save money	Same as SA	Same as SA
	Burnie and Hobard City Councils (TAS)	?	Libraries in Burnie and Hobard CC	?	Same as SA	Same as SA
NEW ZEALAND	Auckland City Council	juli-16	Auckland public libraries		infrared thermometer, stopwatch, thermometer and hygrometer, power meter, booklet, also a magnifying glass for power meter display which is really small, extension cable for smart plugs	Thermal leak detection, shower flow rate, room temperature and humidity, fridge/freezer temperature, appliance power use, record booklet, instructions and tips
IRELAND	Dublin public libraries	jan-17	Dublin city	Proof of concept, show it worked in changing behaviour, raising energy awareness and education	radiator key, plug-in monitor, thermal leak detector, fridge thermometer, digital thermometer and humidity meter, stopwatch, manual, recording sheet	heating, appliances, insulation, fridge/freezer, thermal envelope, water
	SECs/ 2 Schools	sep-17	South Dublin (Shankill)	Gateway to get people into SECs and create energy awareness	Same as Dublin Libraries	Same as Dublin Libraries
	Two Schools	feb-18	Monaghan	Test if Schools programme gains higher engagement in a household	Same as Dublin Libraries	Same as Dublin Libraries

	Edmonton City Council	2016?	Public libraries in Edmonton City	Crux is behaviour change for and in Edmonton City. Major motivation was to give people baseline info to do a full energy audit as part of EnerGuide federal govt evaluation program.	Infrared thermometer (with heat map, very visual); timer for water flow tests; kW meter; battery charger for rechargeable batteries in kit; LED light bulb and infrared thermometer to shine at bulbs and lumen meter. Told people to use IR thermometer on fridge/freezer. Instruction booklet with survey monkey link.	light meter to see their spaces were over- or under-lit (guide said how many lumens they needed for each task); batter charger was for optics, as the municipality is in charge of reducing waste; LED bulb to plug into lamp to show difference with kW meter
	Union Gas	1997-2015	Union Gas customers Ontario	Directed by the Provincial Energy Board – Ontario Energy Board directs UG to design programs for residential and commercial customers that would create awareness of the gas savings and influence customers to change their behaviour and reduce their usage of gas not just in the short term but more importantly for long term results.	Energy efficient showerhead; EE kitchen and bathroom aerators; Pipe wrap 2 lengths each; roll of Teflon tape for showerhead installation, ESK installation guide, Programmable thermostat	To reduce hot water use, and thus gas savings measures how much electricity is used by different devices; checks temperature of surfaces to know which parts of house will benefit from increased weatherproofing and insulation; provides real-time info on energy consumption and cost
CANADA	Red Deer City	before Edmonton	Red Deer City, Alberta	to save energy and money	Kill-A-Watt meter, infrared thermometer, Power Cost wireless energy monitor	
GERMANY	Kemnath Stadtbücherei	?	Public libraries in Kemnath, will be rolled-out across Germany	To reduce energy costs in households	Plug-in meter and extension cord, instruction booklet and energy-saving tips	Measure appliance stand-by power, extension cord for ease of access

	IDAHO Power	2017	Idaho and Orgon	Idaho Power is committed to helping you save energy, save money and live comfortably.	Kill A Watt® power meter, 9 LED bulbs, LED night light, high-efficiency showerhead*, digital thermometer, faucet aerators* (kitchen and bath), shower timer, water flow-rate test bag, teflon tape, how-to guide and videos, instructions and survey	Measure appliance stand-by power, light bulbs to keep, showerhead only for customers with electric water heaters, to check water and fridge/freezer temperatures, to reduce water use, to inform and collect feedback
	Silicon Valley San Jose, California	2014?			To keep: 1 LED bulb, 3 faucet aerators, low-flow shower head, outlet gaskets, weather stripping, thread tape and toilet leak detection tablets. To return: Info handbook, pliers, blue tape, Kill-A-Watt power meter, infrared laser thermometer, thermometer for water, special fridge/freezer thermometer, water flow rate bag, leaky faucet and toilet guide, drip gauge	
	Sonoma County, California	apr-17		has a goal of reducing energy use by providing energy efficiency services to PG&E ratepayers countywide	To keep: 1 LED bulb, 2 faucet aerators, low-flow shower head, outlet gaskets, weather stripping, thread tape and toilet leak detection tablets. To return: Info handbook, pliers, blue tape, Kill-A-Watt power meter, infrared laser thermometer, thermometer for water, special fridge/freezer thermometer, water flow rate bag, plumbing handbook	thread tape for aerators, pliers to help with gaskets, blue tape to protect fixtures, info handbook in several languages

USA	DTE Energy, OHIO Butte County, California	Several years ?	Energy Utility 5 public libraries in Butte County	<p>The Home Energy Survey (HES) program was recommended to DTE by a consulting company. The program offers DTE customers the ability to learn about their home's energy usage through taking an online energy survey. Once the survey is completed, they are provided with energy savings tips and the option to request and Energy Savings Kits with easy to install products.</p> <p>"measuring devices that will help you lower your utility bills while saving precious resources"</p>	<p>Electric kits (electric only customers): 5 LED light bulbs, 2 LED night lights, 4pk of Safety Plugs; Gas Kits (gas customers only): 1 kitchen faucet, 1 bathroom faucet, 1 EE shower head, 6ft of pipe wrap, 4 pk safety plugs; Combo kits (electric & gas customers): 5 LED night bulbs, 2 LED night lights, 1 kitchen and 1 bathroom faucet aerator, 1 EE shower head, 6ft of pipe wrap, 4pk safety plugs</p> <p>To keep: LED bulbs, faucet aerators, low-flow shower head, outlet gaskets, weather stripping, water nozzle and water leak detection tablets. To return: Kill-A-Watt power meter, thermal leak detector, special fridge/freezer thermometer, water flow rate bag</p>	<p>EE products to reduce electricity from lighting and appliances. Hot water saving products to reduce gas consumption. Pipe wrap to insulate hot water pipes.</p> <p>To measure and reduce energy and water use</p>
-----	--	------------------------	--	--	---	--

How much?	Who funded it?	How many kits?	Who else?	Who is targeted?	How successful?	What data was collected?
\$340AUD (\$170 are subsidised) ~€220	South Australian Government	181 toolkits in 133 public libraries and 1279 total borrows	South Australia's 'Energy Partner' organisations incl. social and environmental orgs	Households in metropolitan and rural South Australia	Very, in terms of saturation and borrowing rates. Good feedback from library managers, positive comments from borrowers. Also the programme all others followed.	Not much. Some testimonials, very minor surveys, no household energy use data. Currently doing an online survey but feedback is very low, even with energy-saving packs offered in exchange.
?	Australian Capital Territory Govt	?	?	?	?	?
?	Tasmanian City Councils?	?	?	?	?	?
NZD\$260 ~€150	Auckland City Council	Initially 15, then 30, now 55!	Trained library staff, talked through tools and to make sure they checked they were working correctly on returns. Staff asked people to return feedback forms.	All households, owners and tenants although kit is a little skewed towards owners.	Very long waiting list, 473 already loaned out in 6 months, 130 people on the list. Much more interest in winter than summer. Didn't really need to promote it.	Quick feedback form, how easy it was to use and 3 actions they took because of it. Free light bulbs if filled out - not many (11% return rate). Got contact details for about 30 for future interviews
~€300?	SEAI, CODEMA	30+	CODEMA, Task 24, MCO, SEAI, Dublin libraries, SECs	Residential households in Dublin	Very long waiting list, a lot of interest, Minister really likes it, lots of publicity, further roll-out in other cities and SECs. Waiting for data analysis	Initial library survey ~200 responses
Same	SEAI	10	Same	SEC households in area	Good engagement	'beyond kWh' pre and post surveys (~40) plus two focus groups
Same	SEAI	5		School students and their families	Good engagement in Transition Year school. Need to be a very structured approach with set outputs expected	Survey responses from students plus school workshop

CAD\$1500 ~€980 (suitcases very expensive)	Alberta Real Estate Foundation and City of Edmonton. Wanted it cause realtors could share it with their clients as they sold and bought homes.	30 kits. Kits were made by summer students, the secure custom suitcases were a bit of a challenge and very expensive. Made it very light and as small as possible.	Alberta Real Estate Foundation but not really involved. Sustainability coordinator from public school who also got a kit. Although there is no system for loaning resources to teachers.	Residential home owners, not tenants. Green Home guide is more for substantial retrofits, Living guide is more appealing to tenants as more lifestyle and behaviour-based. Split incentive issues with landlords always an issue.	Extremely long waiting list - 300 holds placed on them. Needed second batch of kits as libraries didn't want to have such long holds on them. Social media publicity was strong - 100000 followers just from City. 5 big media stories written about it. Then just grew from word-of-mouth as no more publicity was needed.	Got survey monkey in instruction booklet but no one has followed link and filled it out yet. Was meant to be "gateway audit light" to get people to sign up to full audit programme. 40 have signed up but no one has done it at time of interview
\$60 value, products had 14 year life span	Union Gas	1000s	Ecofitt to source items and as delivery agent of the programme. Third party analysed the success of the kits by surveying sample of customers every 2 years.	Union Gas utility customers	Extremely so, ran for a 15+ years time span with around 80% of customers saying they installed and used the EE products for several years - until Ontario Energy Board decided the market was saturated	Independent third party surveys of subset of customers every 2 years
?	?	?	?	Residential households in Red Deer City	?	Doesn't say anything about survey being included in the toolkit
?	?	?	Umweltbundesamt and No-Energy-Stiftung	German households	?	?

?	Idaho Power (utility)	Many - one for each residential customer	?	Residential IDAHO Power customers	?	Survey in kit but not sure what response rate is
US\$79121 for whole program and extra US\$6000 for innovate new marketing strategies.	Watch is a local government partnership between our local utility, PG&E, and the City of San José to provide energy efficiency programs to the County of Santa Clara. The funding for this program comes from California's ratepayers, who pay into the energy efficiency programs		City of Cupertino, San Jose Public Library district (24 branches).	residents of County of Santa Clara, incl. City of San José.	Based on check-out numbers and simple calculations, they assume energy savings. It works really well having the toolkits in the libraries, and continually training the library staff so they are educated and engaged. It's also very helpful to set up booths in the library branches every so often to increase awareness and checkout numbers.	PREVIOUSLY: Yes. We had a worksheet for the residents to see how much water and electricity they were saving, as well as a survey card that the residents could turn in when they returned the kit. PRESENTLY: No. We stopped collecting this data because the residents completed the information incorrectly. The only data we currently collect is how many checkouts each library branch has per quarter. We have been considering including another physical survey or a link to an online survey, but this has not happened yet.
?	The County and City Association of Governments (C/CAG) receives ratepayer dollars from the California Public Utilities Commission (CPUC) to fund the Energy Watch program in partnership with Pacific Gas and Electric (PG&E). The Energy Watch	Initially 31 libraries, in future would first launch it in one to pilot administrative and implementation issues first.	San Mateo County Energy Watch (SMCEW), which is a Local Government Partnership (LGP) between the City/County Association of Governments of San Mateo County (C/CAG) and Pacific Gas and Electric Company (PG&E). City libraries and envt NGOs. All signed MOUs.	residents with little or no knowledge of residential energy use or energy efficiency. For any type of residence, incl. RV, Apartment and Single Home.	partnership with local library worked really well; libraries focus on providing as many resources as possible for residents thus enhancing their services with the kits.	Are measuring number of check-outs and number of take-home items that were kept. Too difficult to measure if energy savings resulted from it but remain open to tracking energy saving metrics in the future.

?	EWR Customer surcharge, amount unknown	1000s	DTE Energy Waste Reduction Management and Consulting Company	Electric and gas customers of DTE	Savings from kit are considered deemed savings. No analysis on energy data or customer survey measurements. Products are assessed and improved based on Installation Rate Adjustment Factor (IRAF) and Net to Gross (NTG) rates as well as trending new products that are introduced to the market.	Customer feedback is gathered by a 3 rd party evaluation company. They use the information obtained through a survey customers to do a process impact analysis and rate customer satisfaction with the program.
?	PG&E	Probably 5?	North Valley Energy Watch, PG&E, Richard Heath & Associates	Residents of Butte County	?	No information on any surveys as part of kit

Where is idea from?	Other
It is theirs.	Free energy training and education is available to staff and volunteers to help organisations support their clients. This is facilitated via the Energy Partners Program and is customized based on the audience.
SA	
SA	
Australian programmes	Auckland has low carbon plan, this was one idea that came out of goal of 40% carbon reduction by 2040. Have another 10 kits which will be loaned to Eco Matters Enviro Trust and Habitat for Humanity. Also thinking about school resource. Created kits so there was opportunity for change, if needed. Foam inserts in suitcase and foils in manual for different page inserts
Australian programmes	Summer loans were much lower, also not that easy to motivate SECs to loan kits out from Aidan.
Dublin programme	Results are being collated June 2018

<p>Red Deer City did it, they saw it, borrowed their kit through inter-municipal library loan, looked at tools and built off of that. Summer students did review and found number of municipalities in Australia who they built upon too.</p>	<p>Called the suitcase "James Bond-esque" and that you "could carry a gun in it". Little bit of trepidation of loaning out something so expensive at the beginning, once they talked to higher ups they became more comfortable. Pretty low risk seeing someone else paid for it and had legal agreement that they always would have a couple of backup cases for them. Instruction booklet could have used more time with entering results from IR thermometer to show what it means. If this is what you saw, this is what it means and what you can do about it.</p>
<p>Been around forever, must have been one of the first such programmes</p> <p>?</p>	<p>Mentioned by Edmonton Programme Manager</p>
<p>?</p>	

<p>Unclear</p>	<p>The difference here is that each residential customer of the utility gets a kit sent and they can keep parts of it. It is a free service. No public libraries are involved (though they were with the original Kill-A-Watt loan)</p>
<p>Silicon Valley Energy Watch (SVEW) SVEW awarded a grant to the City of Cupertino who used the funds to start a toolkit program in their city. SVEW felt that the program was a great idea and decided to copy the program in the rest of the libraries throughout the County.</p>	<p>The biggest challenge we face with the toolkit program is community awareness. In order to increase the awareness, we are going to be trying several unique marketing campaigns.</p> <ol style="list-style-type: none"> 1. We will have a 30-second informational video that will run on the screens in our local California Department of Motor Vehicles (DMV). The screens show what number is being called, so patrons have to look at the screens while they wait. We will run it in one DMV office to gauge the success, and then we will consider expanding depending on budget and success. 2. Through an existing partnership with the San Jose Sharks, a professional hockey team, we will run advertisements in the arena during the Sharks games in the month of February (6 home games.) This partnership could extend beyond the arena, as we would be allowed to use the ads (which feature Sharks players) on buses, light rail stations, Facebook, etc. 3. We are also translating our marketing and informational materials into several other languages that are popular within our County (Spanish, Vietnamese, and Chinese.) <p>Also "Green Ninja" programme with schools in collaboration with CommUniverCity San José. Trying to build science curriculum to inspire students to be more sustainable.</p>
<p>From City of San Jose</p>	<p>SMCEW will continue to leverage these connections with local governments, non-profit organizations, businesses, schools, and farms to encourage participation in energy efficiency and water conservation programs. Learned they should have piloted it first. Needed to train library staff better how to check out and restock the kits. Maybe fewer items in the kits. Most popular items: LEDs, showerheads, faucet aerators. More items means it's harder for library staff to restock. The kit handbook is designed to not only provide a basic education about home energy and water use, as well as residential energy and water efficiency strategies, but also to promote the utilization of County-wide programs for energy efficiency, water conservation, waste reduction, and active transportation. Many local residents are also members of the local business community, so one goal of this kit is to promote the utilization of small- and medium-sized business energy efficiency incentive program that is also managed by SMCEW (i.e., the Regional Direct Install program).</p>

Consultant recommended it

Did utilise continuous communication (between contractor and utility) and backbone organisation (contractor) but not the other aspects of a Collective Impact Approach

Probably the original SA pilot, as told by PG&E Programme Manager