DATASETS IMPLEMENTED	CANDIDATES
DISDALE	FIRED
REDD	BLOND (labels)
IAWE	
ECO	
REFIT	

not accessible or has issues	
useful and available	

Dataset	comment	Sampling rate	Duration	# Houses / device instances	Subject	Ground truth	Classes	Country	Availability	Licence	Other channels	Tariff type	Collaboration	Contact information	Dw link	size	additional info	Datasheet
Dataport	good, licence needed	1 Hz to 1 minute	4+ years (actively growing)	1200+	Residential, Commercial, and Light Industrial	Submeter channels	~70	US	Free for academic use (majority) / fee for commercial	https://dataport.cloud/datalicense	Water, Gas, Weather, Thermostats, Surveys, Energy Audits, and more			https://dataport.cloud				
BLOND-50	good(REALLY large)	50kHz/agg [/6.4kHz(ind)]	213 days	1	office building	Labelled events	16 classes(53 appliance)	Germany	public		additional sensor readings (temp, hum), lighting states (on/of, dimm, color)			https://medidatum.ub.tum.de/1375836	32TB	data stored in matroska multimedia container as WavPack encoded audio stream	ltdb
FIKED	good(mostly large)	12kHz/8kHz/50Hz/1Hz	101 days	1	residential	submeter	21 appliances	Germany	public					https://github.com/voelkerb/FIKED_dataset_helper	1.2TB		
REDD	good / accesible via anrostcity	16500 Hz / 1 Hz	Several months	2 / 5	Residential	submeter channels	~20	US	Request access		None			http://redd.csail.mit.edu/			
BLUED	good(bit short)(the link was not working)	12000 Hz	1 week	1	Residential	Labelled events	~50	US	Request access		None			http://inferlab.org/softwares/			
UK-DALE	good	16000 Hz / 1 Hz	Up to 2 years	6 (of which 3 are at 16 kHz)	Residential	Submeter channels	~60	UK	Public FTP		None			http://www.doc.ic.ac.uk/~dk3810/data/ alt https://jack-kelly.com/data/			
PLAID	appl. signatures only	30000 Hz	5 seconds	55	Individual appliances	Individual appliances		12 US	Public		None			http://plaidplug.com/			
WHITED	appl. signature only	44000 Hz	5 seconds	9	Individual appliances	Individual appliances		46 Multiple	Public		None						
Tracebase	not yet accesible	1-day		158	Individual appliances	Individual appliances		43 Germany	Request access		None			https://www.tracebase.org/traces			
DRED	good	1 Hz / 1 min	6 months		1 Residential	Submeter channels		The Netherlands	Public		Ambient, occupancy, household			http://www.st.ewi.tudelft.nl/~akshay/dred/			
AMPds	low res	1 minute	2 years		1 Residential	Submeter channels		19 Canada	Public		Water, natural gas, weather			http://ampds.org/			
RAE	not yet accesible	1 Hz	72 days		1 Residential	Submeter channels		24 Canada	Public		Thermostat, 3 minute sensors, weather			Paper: http://arxiv.org/abs/1705.05767 Data: http://dx.doi.org/10.7910/DVN/ZJW4LC			
IAWE	good	1 Hz	73 days		1 Residential	Submeter channels		33 India	public		Water			http://iawe.github.io/			
HES	low res/not yet accesible	2 minutes	1 year / 1 month	251	Residential	Submeter channels	~20	UK	Request access		Gas, temperature, humidity, light, motion, detailed householder info			https://www.strath.ac.uk/...			
REFIT	seems good	8 seconds	2 years	20	Residential	Submeter		9 UK	Public					https://www.strath.ac.uk/.../residential-load-measurements...			
ECO	seems good	1 second	8 months	6 / 45	Residential	Submeter (1 second)		Switzerland	Public		Occupancy			https://www.vs.inf.ethz.ch/res/show.html?what=eco-data			
COMBED		30 seconds	1 month		academic building energy			India						http://combed.github.io			
GREEND	little info/not ye accesible							Italy and Austria						http://arxiv.org/abs/1405.3100			
ACS-F1		10 seconds	2 sessions of 1 hour each	0 / 10	Home and office appliances	Plug-meters		10 Switzerland			Real power, reactive power, RMS current, phase of V relative to I			http://dx.doi.org/10.1109/WoSSPA.2013.6602387			
iHEPCDS		1 minute	4 years	1 / 3				3 France			I, V, P, Q			http://archive.ics.uci.edu/ml/datasets/Individual+household+electric+power+consumption			
		7 secs	0-53 months	33 / 1				1 Finland, Iceland, Scotland						http://solar-week.fr/load/			
SMART*	available	1 Hz	3 months	3 / 25				25 USA			Microgeneration, wall switches, motion sensors, door sensors, thermostats			http://traces.cs.umass.edu/			
	not available	Hourly and Daily available now. 15 minute coming late-2016.	1 month	20 / 30			1: just TVs	Japan	To be released by early 2017?					Jinsung Kim at Encored (he presented at the 2016 EU NILM Workshop)			
	not available	1 Hz or 0.5 Hz	1 house		Living lab			UK	To be released in 2017?					Kalon Bao at the Karlsruhe Institute of Technology (he presented at the 2016 EU NILM Workshop)			
RASA	not available	15 minute	27 months	101		Submetered		Pacific Northwest, USA						http://neea.org/resource-center/regional-data-resources/residential-building-stock-assessment			
	not available	1 minute	1 year	23		Submetered		whole-house, non-HVi Ottawa, Canada						http://dx.doi.org/10.1016/j.apptherm aleng.2016.07.133 interested researchers are invited to contact Ian Beausoleil			
		100 kHz	6 seconds		1 Individual appliances	Individual appliances		12 France	Public		None			https://cooldataset.github.io/			
UT-Dataset	has labels	15 kHz	30s to hours	26	Residential	Individual appliances + labelled events	~14	Brazil	Public		None			http://www.dainf.ct.utfpr.edu.br/~douglas/UT_Dataset/			

dataset compatibility							
BLOND-50	["current1", "current2", "current3", "current4", "current5", "current6", "voltage"]	ILQ and P	not labeled	hdf5	dishwasher, battery chargers, laptop chargers, lenovo laptops, PC, apple/samsung phone usb chargers	14 offices and 1 meeting room		
FIKED	waveform but has a dataset helper	ILQ and P	labeled	mkw				
REDD (sent on email)		just active P - problem	not labeled					
BLUED								
UK-DALE			not labeled	.dat?				
PLAID				ls				
WHITED								
Tracebase								
DRED								
AMPds								
RAE								
IAWE								
HES								
REFIT								
ECO								
COMBED								