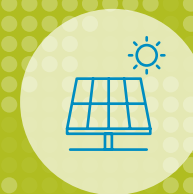
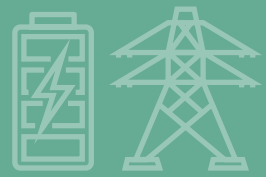


OpenADR Alliance Annual Report



2024



Executive Summary

This annual report highlights the successful growth and global adoption of the OpenADR standard in 2024, marked by an increase in worldwide membership, certified products being integrated into the market and the strategic expansion into new global market segments.

The OpenADR Alliance has had a number of key achievements this year including the launch of the OpenADR 3.0 certification program, a successful Users Conference and the strengthening of ties with other standards bodies and government/policy organizations.

Looking ahead we remain committed and well positioned to help utilities manage the growing pool of distributed energy resources, which includes renewable energy, energy storage, demand response and electric vehicle charging. Conversely, the Alliance also strives to enable new markets for its members by further harmonizing Demand Flexibility programs.

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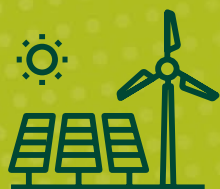
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About Us / Mission



The OpenADR Alliance, a non-profit corporation created to foster the development, adoption, and compliance of OpenADR and related standards, helps utilities manage the growing pool of distributed energy resources, which includes renewable energy, energy storage, demand response & flexibility, and electric vehicle charging. The OpenADR standard supports communications to all Distributed Energy Resources (DER) to manage changes in load shape, energy inputs and power characteristics of DER assets. The EcoPort standard additionally enables smart appliances to be connected.



*helps utilities
manage the growing
pool of distributed
energy resources*



The mission of the OpenADR Alliance is to foster the development, adoption, and compliance of the Demand Flexibility standards through collaboration, education, training, testing and certification.

Our Board of Directors



Mark Martinez
Chairman



Mary Ann Piette
Vice-Chairman



Albert Chiu
Secretary/Treasurer



Sunil Goyal



Geoff Wickes



*The OpenADR Alliance ecosystem has traditionally been made up of control manufacturers and utilities.
Now we are also attracting members from the automotive and associated sectors.*

2024 highlights

+319

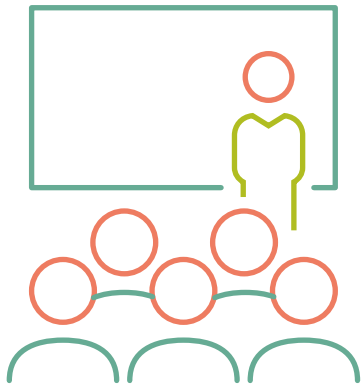
Number of Certified Products now exceeds **319**



First OpenADR 3.0 products in the certification queue and to be announced soon



The Alliance added **40 new members** in 2024. Of those, 18 are in North America, 17 in Asia, and 5 in Europe bringing our total membership to over 220.

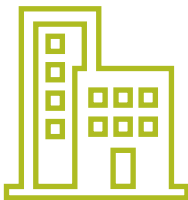


12 industry events

The Alliance participated in **12 Industry Events in 2024** with a mix of USA and Europe based events and one Australian tradeshow. For 2025, the Alliance is eager to also participate in events in Asia and is currently formulating a strategy for this.

2024

928



53

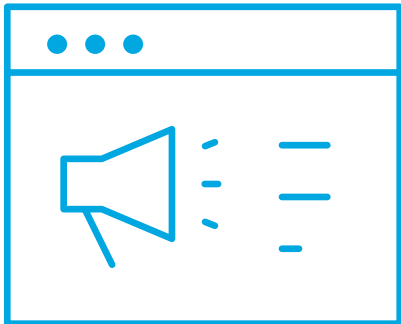


By the end of 2024, **928 companies** from **53 countries** downloaded the **OpenADR specification**

2024 highlights cont'd



The Alliance hosted several Webinars and countless conference calls



Published 17 industry blogs



EcoPort saw jump in certified products

Japan enacted additional OpenADR usage requirements



Several **European countries** chose **OpenADR 3.0** as their Demand Side Flexibility kick-off technology standard



California utilities are embracing **OpenADR 3.0** for new **dynamic price communications**



Raised OpenADR profile among journalists in the **UK and Germany** by securing over **60 pieces of news coverage**

Letter from



Rolf Bienert
Managing and Technical Director

By today's count we added exactly 40 member companies and are now well over 200 members, we have over 319 certified products

our managing and technical director



Dear OpenADR Community,

I cannot believe that we are already at the start of 2025. It feels like we just returned from [DISTRIBUTECH in Orlando](#) which — together with [AHR](#) — was one of our first tradeshow appearances in 2024. However, it did become painfully obvious that we are nearing the winter months again as we walked from our hotel to the [2nd OpenADR Users Conference in London](#) in a “refreshing” snow-rain shower.

Not surprisingly, the OpenADR 3.0 standard was one of our biggest behind-the-scenes work items this year (again). The first version of the standard was already completed over a year ago but like with any good new product, it took everybody a while to wrap their minds around all the new ideas. The certification test tool was also completed and will very soon be available for purchase. I am not going to sugar coat it, the way the new version

works — REST API, JSON, OAuth 2, flexible business logic — still mystifies my “old” brain. I grew up with an Atari and C++ after all. But things are taking shape nicely now and adoption is rapidly increasing.

Overall it has been a great year for the OpenADR Alliance as well as for the adoption of the OpenADR standard. By today's count we added exactly 40 member companies and are now well over 200 members, we have over 319 certified products, and we are now working with 10 approved test facilities in eight countries. In addition, the Alliance's influence is expanding across Europe and the Middle East, with new members from the UK, Germany, Italy, Israel, Bulgaria, and the Netherlands.

Throughout 2025, we anticipate more growth with the availability of certification

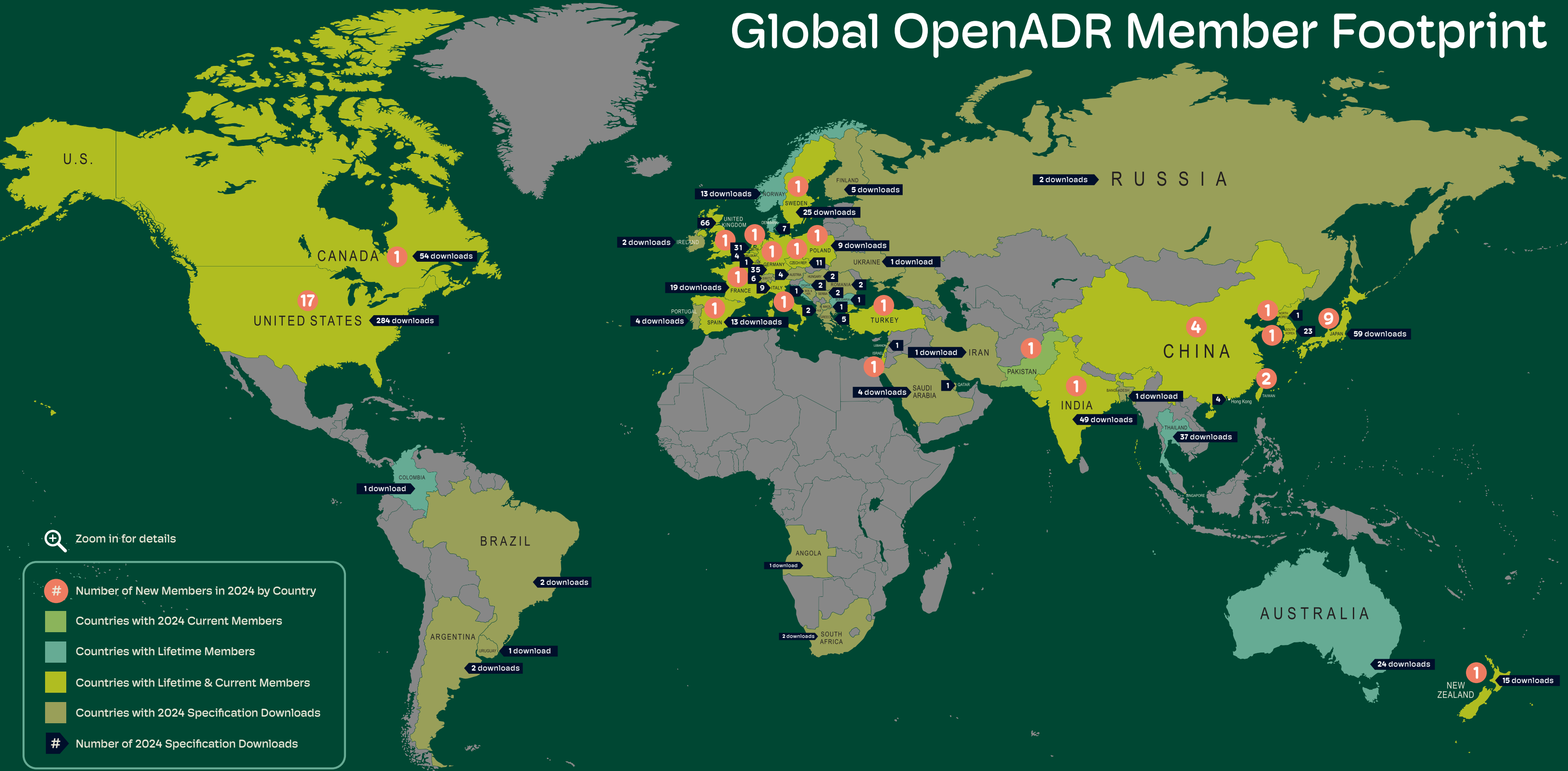
program for the OpenADR 3.0 standard ideal for distributed energy resources, such as battery storage, EV managed charging networks and Virtual Power Plants (VPPs).

Another focus area will be the growing need to connect appliances efficiently to the grid. In addition to OpenADR, the EcoPort certification (the certification standard for CTA-2045) continues being adopted by manufacturers and regulators.

Aside from the “business-as-usual” tasks, we are also working on formulating strategies around system conformance, flexibility asset tracking, and DER information exchange.

We look forward to the continuing success of OpenADR Alliance.

Global OpenADR Member Footprint



Zoom in for details

- # Number of New Members in 2024 by Country
- Countries with 2024 Current Members
- Countries with Lifetime Members
- Countries with Lifetime & Current Members
- Countries with 2024 Specification Downloads
- # Number of 2024 Specification Downloads

Global Adoption of the OpenADR Standard



***More and more utilities
are rolling out new
programs using
the OpenADR standard.***

In the US, OpenADR has been well known for managing flexibility assets for many years.

California's Title 24 building code has required the standards since several years and the new version will also see additional ideas and use cases.

[EnergyStar](#), the energy efficiency standard for appliances, now also includes references to OpenADR when it comes to grid connectivity. More and more utilities are rolling out new programs using OpenADR and we are also seeing increased EV activities with utilities by our board member company Ford Motor Company.

Outside of the US, the European market has seen the biggest increase in activities. In particular OpenADR 3.0 is of increased interest in new projects. The UK has been working on Energy Smart Appliances for several years and is just wrapping up their first end-to-end system evaluations. The next phase will be looking at OpenADR 3.0.

Recently the Energy Networks Association of the UK also specified OpenADR and has started a project to define the program parameters and implementation requirements. In the Netherlands we also see an effort to mandate standards like OpenADR and OCPP for EV charging applications. The Swedish branch of E.On also recently implemented a new 3.0 VTN.

As more governments and policy makers in Europe specify open standards as part of energy demand flexibility, new European members are also rolling out cutting-edge software and technology solutions to support several utility-led programs. In support of international activities, OpenADR 2.0b has been an IEC standard since 2018 and we are starting to look at an IEC pathway also for OpenADR 3.0.

OpenADR Enabling Flexibility in New Zealand

New Zealand has committed to achieving net zero emissions by 2050 and a goal of reaching 100 percent renewable electricity generation by 2030. As the country embarks on an ambitious energy transition, it has many natural advantages, including a strong renewable resource base.

In 2022, the Electricity Engineers' Association (EEA) and the Energy Efficiency and Conservation Authority (EECA) came together with industry partners to form the FlexTalk (Demand Flexibility Common Communications Protocol Project). OpenADR member company [Cortexo](#), based in New Zealand, had a key role as a 'technical lead' providing the knowledge and technology to implement the technical solution.

The main objective of the project was to explore how to better enable customer flexibility to

be utilized by testing the interoperability of a two-way common communication protocol between an electricity distribution company and flexibility supplier. The program successfully trialed seven custom demand management programs using OpenADR for household EV charging and battery management, including price discovery and price bidding programs as well as emergency and dynamic operating envelope signals. The trial report was released recently.



[The FlexTalk Report \(PDF\):](#) The demand flexibility common communication protocols project final report outlines why demand flexibility is so important, what is happening internationally, what was tested, what was found and what the project's recommendations are.

[The FlexTalk Insights \(PDF\):](#) OpenADR technical insights provide more technical detail of the FlexTalk program design and guidance on implementation approaches for the OpenADR protocol.

The adoption of OpenADR in New Zealand is still in its early stages. However New Zealand continues to explore how Flexibility markets may work and aggregators may bundle services that offer DER to various parties.

Industry Partners

In Europe, the OpenADR Alliance is strengthening ties with other standards bodies and government/policy organizations. This includes the UK's Department of Energy Security & Net Zero (DESNZ), which has written OpenADR into two BSI standards, EEBUS in Germany, and Smart Energy Europe (smartEn), which lobbies for energy flexibility as part of the transition to clean energy. [Learn more here.](#)

Standards are evolving all over the world, learning from implementation and joining up all the actors is key to enabling stable and reliable flexibility.



Department for
Energy Security
& Net Zero



Evolving the OpenADR Standard

With the latest release of the OpenADR 3.0 communications standard and certification program the Alliance can support a broader range of distributed energy resources to better optimize energy storage for residential customers using OpenADR standards.

The OpenADR 3.0 Standard is not intended to replace the OpenADR 2.0a/b Profile Specifications. Rather, it provides an additional, simplified way to add OpenADR functionalities in current, as well as different and new scenarios.

On the surface the main difference between the 2.0 and the 3.0 standards is the programming language (now JSON) and the architecture as a REST API. Many of the general functions remain the same, for example the Event and the Report service. However, there is one key difference that makes OpenADR 3.0 more adoptable — the removal of what we call the business logic.

In 2.0 there was a clear mandatory message exchange pattern. This essentially defined the business logic. As a REST API, 3.0 now leaves the business logic to the application layer entirely. Therefore, we can propose and implement different business mechanisms using the same underlying standard. This makes it much easier to implement simplistic programs like price communication for dynamic rates. The VEN in such a case can be very rudimentary, just a few lines of code to read the price from the server. This enables OpenADR 3.0 to be easily implemented in all types of systems and devices, for instance also in a [Matter](#) gateway. This makes OpenADR more accessible for a broader range of implementations. The certification will also be simpler and more cost effective. We are now seeing the first efforts for price comms via 3.0 by the leading California utilities SCE and PG&E.



Showcasing the new developer friendly aspects of OpenADR 3.0, the Alliance recently held a [Hackathon](#) hosted by board member PG&E in California. The event was well received and the 20 participating developers demonstrated great knowledge of the standard. It was also interesting to see the usage of AI to easily build software products surrounding OpenADR.

“Ford supports open standards as a way to overcome interoperability challenges in young but maturing markets — like what we have today for Vehicle Grid Integration. This aligns well with OpenADR’s mission.”

According to Sunil Goyal,
Advance Project Leader—Energy Service, Ford Motor

EcoPort — Connecting the Consumer to the Grid

The OpenADR Alliance is playing a key role supporting smart appliances in the USA.

EcoPort® is the brand name associated with CTA-2045 certified products. CTA-2045 is a technical standard promulgated and published by the Consumer Technology Association (R7.8 Modular Communication Interface for Energy Management Subcommittee.) Compliance means that a product has been submitted to the EcoPort certification program (operated by the OpenADR Alliance, which also operates a certification for the separate OpenADR standard, IEC 62746-10-1.) Smart appliances are being used in energy flexibility programs operated by DSO's, and EcoPort enables OpenADR messages to flow to appliance owners while allowing DSOs to use communications (WiFi, cellular) of their choice.

In the US, several states now require all new electric storage water heaters sold in the state to include a CTA-2045 communications port. The large California market has also announced a rulemaking incorporating both EcoPort and OpenADR in appliance requirements.

Certified EcoPort Products

The large California market has also announced a rulemaking incorporating both EcoPort and OpenADR in appliance requirements.



The Journey to E-mobility

The rapid growth of the electric vehicle market has spurred cooperation between automotive OEMs and the electric utility industry. EV's represent a once-in-a-generation transformation on both the automotive and the utility side. We are already seeing a significant number of EV charging programs using OpenADR and often also OCPP. The industry is still developing, and we are expecting more innovation to happen .

Aside from the basic communication protocol, EV charging includes a number of systems. From the actual plug to the customer interface, these systems must become more standardized in their roles and interactions to provide a customer friendly and scalable solution for the future.

The Electric Power Research Institute (EPRI) envisioned this several years ago. They collaborated with a number of car makers — Ford, BMW,

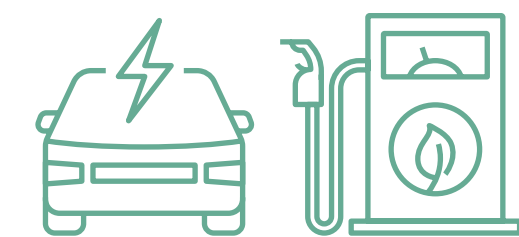
General Motors, Honda, Mercedes Benz, and Toyota—in order to conceptualize a common set of interfaces. It was referenced as the [Open Vehicle-Grid Integration Platform](#), OVGIP for short. Ford and several others in recent years productized this platform and successfully rolled it out with more than 5 utilities. OpenADR is the protocol for grid services in OVGIP.

This year, [ChargeScape](#), a consortium of some of the biggest names in automotive manufacturing has appointed its first CEO and CTO. Spearheaded by Alliance Board member, Ford Motor Company, along with BMW Manufacturing Co., Honda and Nissan Motor Corporation, the joint venture will focus on the integration of electric vehicles (EVs) into the power grid in the US.

The OpenADR Alliance is pushing for more system standardization around OVGIP, including a

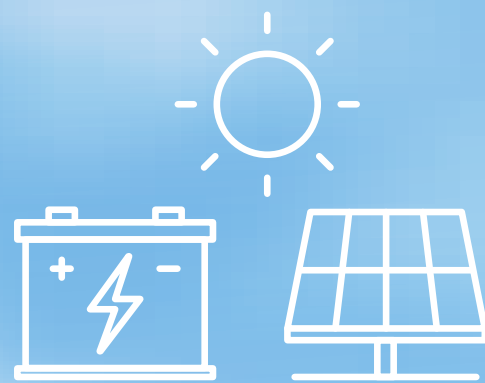
customer facing certification mark. The initial efforts are ongoing. We are convinced that this is a vital activity for scalability in the future as we are otherwise facing a fragmentation of the systems with a many associated downsides for customers, utilities, and equipment makes alike.

EV's represent a once-in-a-generation transformation on both the automotive and the utility side.



VPP Growth

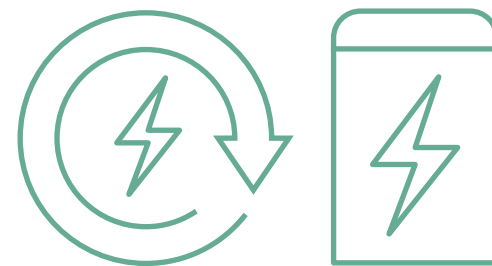
A key current driver is the emergence of ever dropping battery storage costs, increasing the capability of Virtual Power Plants as grid resources. First generation implementation for OpenADR in the VPP market was through rooftop solar and storage. Today we are seeing more harmonizing cross-DER integration. Companies are now developing EV charging management systems that support flexible pricing, solar system integration, and AI-based predictive load balancing.



Battery storage: Renewable, Decarbonization

Demand Side Management (DSM) programs (aka DR, DER, or Flexibility) make use of available capacity in homes, companies, car fleets, and other systems. This capacity can be provided by reducing the power consumption (curtailment in classic DR programs) like changing air conditioning and heating settings, stopping appliances and other systems, etc. However, capacity can also be made available using managed renewables in connection with batteries, up and down regulation of battery chargers (EV), and controlled discharging of batteries, both in fixed or vehicle systems. In particular vehicle fleets represent a significant capacity for short-term usage.

The OpenADR standard has supported this type management since over a decade with a multitude of installations worldwide. OpenADR messages in most cases provide objectives to customer owned system to trigger a response. These messages can contain variable prices or more specific energy requests. Any and all available capacity can be managed easily and without disturbing the grid controls in this way.



Virtual Power Plants (VPPs) are a smart, clean and cost-effective way to manage electricity supply and demand on an evolving energy grid.

Membership



Promoter members



Contributor members

AMPECO	Airzone — Corporación Empresarial Altra	Autani, LLC	British Columbia Institute of Technology (BCIT) — Applied Research — SMART Department	ChargePoint, Inc.	Cooper Power Systems
4energy Ltd	ajdvhad	Autel US Inc.	Budderfly LLC	Chargie	Cortexo
75F	Ambi Labs Limited	AutoGrid	Builddie	Chichibu PPS K.K.	CPower Energy Management
A.O. Smith Water Products Company	AMG Solution inc	Automated Logic Corporation	Buzze Inc.	Chunghwa Telecom Co., Ltd.	CrossChasm
ABB Bailey Japan Limited	AMITEK	Avi-on Labs, Inc.	Byucksan Power Co., Ltd.	Cielo WiGle Inc.	Cuculus GmbH
ABB S.p.A.	Ampcontrol Technologies, Inc.	Azbil Corporation	CACTUS	CleanSpark	Curoo
ACMEPOINT ENERGY SERVICE Co., Ltd.	AmpedUp! Networks, LLC	Basari Mobile Co.	CarMedialab GmbH	Codibly	Customized Energy Solutions
Acuity Controls	ampUp	BC Hydro	Carrier Corporation	Coil Winding Specialist, Inc.	CyberSwitching, Inc.
AcuityBrands	ANCLAB CO.,LTD	Bellawatt	CastleOS Software, LLC	Colmac Waterheat inc.	Daikin
AddEnergie	Apparent Inc.	Blink Charging Co	CCIC-CSA International Certification Co., Ltd. Kunshan Branch	Computime Ltd.	Daintree Networks, Inc.
Ademco Inc – Resideo Grid Services	Ariston Group	Blue Pillar, Inc.	CEIVA Logic, Inc.	Connected Energy [former BPL Global LLC]	dcbel Inc.
ads-tec Energy GmbH	ATEN International Co., Ltd.	Blueprint Power Technologies LLC	ChargeLab	Constellation Energy	Delta Networks(Xiamen)LTD.
AEP	Austin Energy	BP Pulse Fleet North America , Inc.		Control Dynamics	Dialight
AI-RIDER Corp.		Braeburn Systems LLC			DigiKoo GmbH

Membership



DIGITAL GRID Corporation.	Electrosem LLC	Epic Charging	FreeWire Technologies	GRIDWIZ	Insight Energy Ventures LLC dba Powerley
DNV GL	Elocity Technologies Inc.	EPSA [former CELSIA]	Fuji Electric Co., Ltd.	GridX, Inc.	Inspeerity
Doosan	Embertec USA LLC	eSmart Systems	Fujitsu Limited [also Labs of America]	GSE LLC	Institute For Information Industry
Driivz Ltd.	Emerson-White Rodgers	ESP	GD Midea Air-Conditioning Equipment Co., Ltd.	Hangzhou Telehems Electronics Technology Co.,Ltd	InTech Energy
E-Gear, LLC	Encored	Essency	GE Appliances	Harvest Thermal	Intellastar LLC
e-Power Solutions Co.	Encycle	EV Connect, Inc.	GE Vernova	HawkenIO	Intelligent Energy Solutions LLC / MidAmerican Energy Solutions
Earth Networks	Enel X [EnerNOC / Electric Motor Werks]	EV Range	Generac Grid Services LLC	Hitachi, Ltd.	Intellihot Inc
Eco Automation	Eneres Co., Ltd.	EVBox (formerly Everon former EVBox BV)	GismoPower LLC	Honeywell	Intellilum, Inc.
Eco2 Systems LLC	Energport Inc.	EverCharge	Goal connect Co.,Ltd .	HUGEMORI CORPORATION	Intertek
ecobee	EnergyHub	EvGateway	Green Action Studio	Hypercharge Networks Corp	Itron
EcoFactor	Enernet	EvoCharge	GreenFlux Assets BV	IC Systems	Johnson Controls / CPower
Ecogy Energy	EnerNOC Inc.	Evoke Systems	Greenlots	IDEAL INDUSTRIES, INC.	Kaluza
EIPGRID Inc. (formerly I-ON Communications Co., Ltd.)	Enersponse	EVPassport	Greenphard Energy Inc.	iesMACH	KIGT Inc.
ElecONE Inc.	EnerSys	Exergy Controls	Grid Solutions (formerly Nishihara)	IHI Energy Storage	Kitu Systems
Electric Era Technologies	Enestone	Faberwork, LLC	GridBeyond, LLC	In-Charge Energy	KnGrid
Electric Motor Werks, Inc	Engie Storage [former Green Charge Networks]	Far EasTone Telecommunications Co., Ltd.	GridFabric LLC	Inda-Gro Induction Lighting	Kyocera
Electric Power Research Institute, China Southern Power Grid	EnjoyElec	Fermata Energy	GridNavigator	Industrial Technology Research Institute of Taiwan, R.O.C	Lancium LLC
Electricity Generation and Retail Corporation trading as Synergy	Enlighted Inc	Flipturn	GridPoint	Inergy Systems	Landis+Gyr
Electriq Power	EnPowered	Fortress Power	Gridscope Solutions	Ingersoll Rand-Trane	LBNL
	EnTouch Controls	FranklinWH Technologies Co., Ltd.		innogy eMobility	Legrand

Membership



Lennox International	NaoDigital	NRG Energy, Inc	Pointfar Automation LLC	Renewable Japan Co.,Ltd.	Small Planet USA LLC
LG Electronics Inc.	NAONWORKS	NURI FLEX	Pelican Wireless Systems	REstore	SMSOFT
Liberty Plugins Inc.	National Cheng Kung University	Nuri Telecom	Philips	RF Controls	Sol-Ark, LLC (aka)-Portable Solar LLC
LiteTrace	National Electronics and Computer Technology Center (NECTEC)	Observant	Phoenix Energy Technologies	Rheem Manufacturing Company	SolarPilot Energy
Locbit, Inc.	Navien Inc.	Oi Electric Co., Ltd.	PLATFORMATICS INC.	Rinnai	Solo Energy Limited
Logistics Energy Korea Company, Ltd.	ndustrial.io	Olivine, Inc.	Plimoth Bay Controls, LLC	Rinnai New Zealand Ltd.	Spokane Edo LLC
Loop, Inc.	NEC Corporation	OMRON Corporation	Polaris Energy Services	Saascharge, Inc.	SRP Salt River Project
LUMHOUSE ENERJI SANAYI VE TICARET ANONIM SIRKETI	NEC Engineering, Ltd. Is now Platforms	OpConnect	Power X, Inc	Second Foundation Tech a.s.	Standard Euler, Inc. (d.b.a Flair)
Lunera Inc. [Former Lunera Lighting]	NExT-e Solutions Inc.	Open Access Technology International, Inc.	PowerFlex Systems, LLC	SemaConnect, Inc	Steffes ETS, LLC
Lutron Electronics Co., Inc.	NextDrive Co.	Open Systems International Inc	PowerPump	Serious Controls	Stonewater Controls
Manageon	NextEra Analytics LLC	OpenRoad Technologies Inc.	Powertech Labs Inc.	Shadow Power	STRATIS IoT, Inc.
MaxLite Inc.	Nhu Energy, Inc.	OPUS ONE SOLUTIONS	Prescriptive Data Inc	Shell	Sumitomo Electric
MEIDENSHA CORPORATION	NIPPON KOEI Energy Solutions CO.,LTD.	Orange Charger	Pro1 IAQ, INC	Shenzhen ELECQ Technology Co., Ltd	Sunnovations Inc.
MelRok, LLC	Nippon Telegraph and Telephone Corp.	Osaki Electric	Quality Logic	Shifted Energy	SunPower Corp.
Metergram	NISHIMU ELECTRONICS INDUSTRIES Co. Ltd.	OSRAM LTD [Digital Lumens Inc.]	QUARGE TECHNOLOGIES LLC dba EVCHRON	Shimmer Industries, Inc	Sunverge Energy Inc.
Micro-Star INT'L CO., LTD.	Nissin Systems Co., Ltd.	Pacific Gas & Electric	Quby International	ShirokumaPower Co., Ltd.	Swell Energy
Mitsubishi Electric Corporation	Noodoe Inc	Packetized Energy	RAB Lighting	Shizen Connect	SWTCH Energy Inc.
MOEV Inc.	Nostromo Energy	Panasonic	Re:Power Inc.	Siemens Canada Limited	Synop
Monta		Parsons (formerly IPKeys)	Recargo, Inc.	Silvair, Inc.	SystemNihonKyushu
Murata Energy Solutions Americas		Pason Power	Relation consulting	Sinope technologies	Systems Mechanics Ltd
mwConnect		PAYENERGY A DBA of	Reliable Controls Corporation	Skycentrics	Taiwan Electric Research & Testing Center (TERTEC)
				SLAC National Accelerator Laboratory	

Membership



Taiwan Testing and Certification Center	ThinkEco	TTA (Telecommunications Technology Association)	University Carlos III of Madrid	Voltus, Inc.	Yardi-Enerliance
TAKAOKA TOKO CO.,LTD	TIS Inc.	Turntide Technologies, Inc. [former Riptide IO Inc]	University of Southern Denmark	Wanbang Digital Energy Co., Ltd.	Yokogawa Solution Service Corporation
tekmar Control Systems Ltd.	Toinx Co., Ltd.	Typhoon HIL Inc.	Vaughn Thermal Corporation	WattEV	ZEF Energy Inc.
Telkonet, Inc	TOSHIBA Corporation	UL LLC	Veloce Energy Inc	Wevo Energy Ltd	Zen Within Inc.
Tellus Power	TOYOTA TSUSHO CORPORATION	Unilectric, LLC	Venstar Inc.	WiSilica Inc	Zero Impact Solutions
Tennessee Valley Authority	TRC Companies [former Lockheed Martin]	Universal Devices Inc.	Ventyx / ABB	Wooam, Inc.	Zerova Technologies Taiwan Limited
TeraWatt Infrastructure	TrickleStar Inc.	Universal Electronics Inc	Virtual Peaker	XCSpec, Inc.	Zevtron
THG Energy Solutions, LLC	Trilliant		VITO	Xeal Energy	株式会社 e 電力ソリューションズ
			Volta Charging, LLC	XiO, Inc	

Adopter members:

Adnet d.o.o	E.ON Energistribution AB	KETI	Electric Cooperative	Resillion [former Eurofins Digital Testing]	Vermont Public Power Supply Authority
CSA Group	ETC	Korea Electrotechnology Research Institute	NV Energy Inc.	Sacramento Municipal Utility District	TUV Rheinland Japan Ltd.
EDF R&D	ETRI	London Hydro	Research Center of Energy, Conservation for New Generation of Residential, Commercial, and Industrial Sectors	STEM Inc	
ElaadNL	Hawaiian Electric Company	Énergie NB Power		Transpower	
Energy Solutions	Internet Initiative Japan Inc.	New Hampshire			