

# Powering Electrification Through Open Data

**NODE Collective Webinar** 

May 30, 2024

#### **About the BDC**

The Building Decarbonization Coalition (BDC) aligns critical stakeholders on a path to transform the nation's buildings through clean energy, using policy, research, market development and public engagement.

The BDC and its members are charting the course to eliminate fossil fuels in buildings to improve people's health, cut climate and air pollution, prioritize high-road jobs, and ensure that our communities are more resilient to the impacts of climate change.

- Sign up for our newsletter!
  <a href="https://buildingdecarb.org/newsletter">https://buildingdecarb.org/newsletter</a>
- Membership is free! Join us! <u>buildingdecarb.org/join</u>





#### Thank you to our Trailblazer Members!





































#### **Webinar Logistics**

- Everyone is muted
- This webinar is being recorded and will be placed in our website's Resource Library.
- Ask questions for our panelists or comments for the group in the chat.
- All registrants will be emailed with a link and additional resources early next week.





#### **Today's Hosts**



André Meurer BDC Director of Digital Products



Autumn Proudlove NC Clean Energy Technology Center Managing Director, Policy & Markets



DeAndrea Salvador Eli Technologies Director of Partnerships



Frederico Andrade Eli Technologies Product Manager



**Lacey Tan RMI**Manager,
Carbon-free Buildings



Tom Carden
Rewiring America
Vice President,
Engineering





# Powering Electrification Through Open Data

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May 30, 2024

The National Open Data for Electrification (NODE)

Collective is a nonprofit alliance dedicated to sourcing, structuring, and maintaining comprehensive data on every residential electrification incentive program in the U.S.











#### A Fragmented Landscape

5,000+ incentives in the U.S.

Sourcing accurate data 2

**Structuring** accurate data

**Maintaining** accurate data







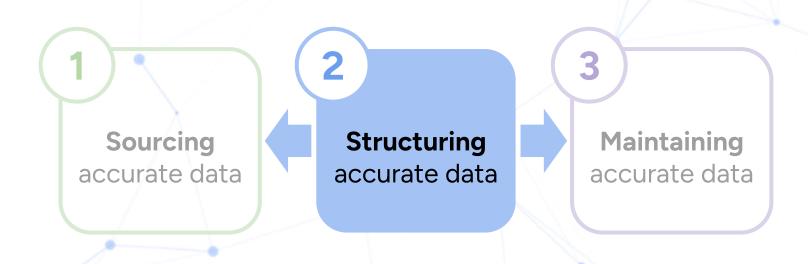






#### First Step: A Common Data Format

An open data schema provides structure and a common language.









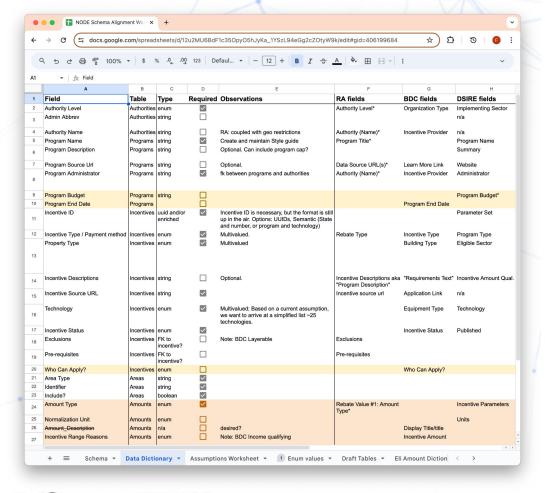




#### Creating the Data Schema

Different organizations represent incentives in **different ways**.

We aligned our combined data into a common structure.















#### Representing **Incentive Data**

Five tables to represent incentives in a flexible way.





















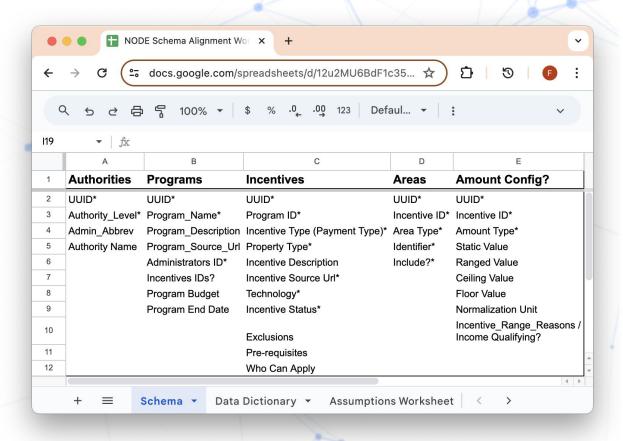




# The Incentive Record

#### Core attributes:

- Amount
- Area
- Technology
- Program
- Authority















### Simple → Complex → Simple

Capture complex concepts in a simple way to simplify contributions.

Heating/Cooling Downsize

Heavy Duty Extension Cord Home Energy Audit

				52	Government			~		BDC = Org level is only gov, but incentive dis	tinguishes the type (fee
Technology (286)	ELI (276)	RA (34)	BDC (15)	DSIRE (64)	Notes	1	<b>/</b>				
General Air Sealing	~		~		BDC = Air Sealing	_1		$\checkmark$	~		
General Heat Pump Heating & Cooling				$\overline{}$		il	H	~			
General HVAC	$\overline{}$					1	~	H	H		
General Insulation	~		~		BDC = Insulation	2			~		
Generator	~					1					
Geothermal Heat Pump	<b>✓</b>	~		$\checkmark$	RA = geothermal_heating_installation	]		~		SB: confirmed on use case, this was for TEC	H/energy solutions imp
Ground-Source Geothermal Heat Pump	<b>✓</b>			<b>✓</b>	DSIRE = Geothermal Heat Pumps	]	~	<b>~</b>			
Halogen Light Fixtures	<b>~</b>									* Note: Banks, Nonprofits, Manufacturers, 3rd	d-party implementors ar
Heat Pump Air Conditioner Heater					RA = heat_pump_air_conditioner_hea	ater .	RA	BDC	Delbi	Notes	BDC Technology
Heat Pump Laundry Dryer	~	$\checkmark$	$\checkmark$		RA = heat_pump_clothes_dryer BDC = Heat Pump Dryer	1				Notes	Air Sealing
Heat Pump Single Package Vertical Air Conditioner (SPVHP)						1					Comprehensive Er
Heat Recovery Ventilator	~					1	ᆜ		ᆜ		Critical Load Pane
Heat Recovery VRF Air Conditioning	~										
Heat Tape Timer	<b>~</b>										

K46

42

Amount

Flat Amount

33 Induction Lending Programs

Sales Tax Incentive

Property Tax Incentive Grant Program

Measure Coverage %

Federal Government

Regional Government

State Government

City Government

Note: DSIRE has lots more incentive types

Net Metering









NODE Schema Alignment Worksheet 🔯 🖻 🙆 File Edit View Insert Format Data Tools Extensions Help

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**~** 

~  $\checkmark$ 

ELI RA BDC DSIRE Notes



SB: Can change to Lending Programs instead

DSIRE has separate types for corporate tax deductions and personal

This is specific to solar and there are just a small handful of them na

DSIRE = "Local Government" is inclusive of both city and county gov

DSIRE basically covers these but in a different format

Prob ok to not include, very complex

RA Regional = County



#### Many Challenges Remain!

Evolve schema through public comments

Incentive programs rules and data sources are inconsistent

A quick first deliverable vs. onboarding many stakeholders is a balancing act

Many more voices need to be represented in the NODE Collective

Optimize for simplicity & the most faithful representation

Simplify data contributions

> Amounts and geography can take different shapes

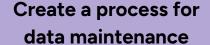
Merge & de-duplicate the dataset

Secure sustainable funding & resourcing







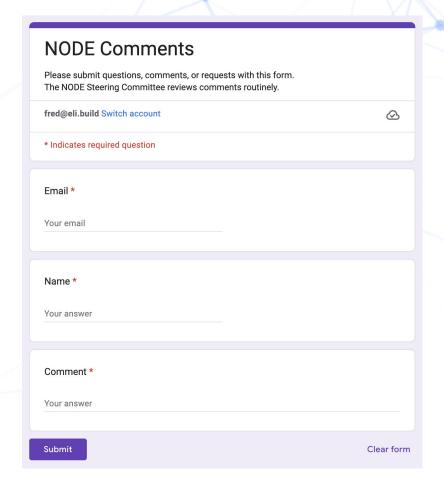






#### We Are Seeking Feedback

**Schema available soon** at nodecollective.org.















## **Panel Discussion**



André BDC



Autumn **DSIRE** 



**DeAndrea** Eli



**Freddie** Eli



Lacey RMI



Tom Rewiring **America** 













# **How To Get Involved**













#### Ways to Get Involved



#### Data **Contributions**

**Providing incentives** data to the NODE repository



#### **Utilizing Data**

Using incentives data from the NODE repository (once available)



#### **Financial Contributions**

Contributing financially to support the NODE Collective project















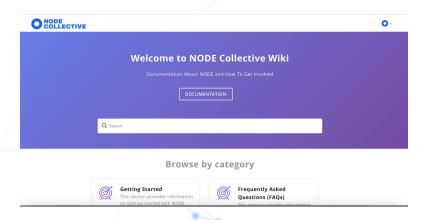
#### **Asynchronous Ways to Contribute**

**Online ListServ/Forum:** 

https://lists.lfenergy.org/q/node-collective-discussion

**NODE Collective Wiki:** 

https://node-wiki.document360.io/









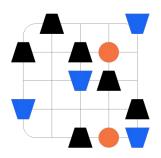




### **Choose Your Journey**







**NODE Spark Sessions** Join our monthly meetings Next Meeting: June 26th



Get 1:1 time with NODE founding organizations















# Thank You









