

this should probably be another table

either here or at prime mover--add in GPS coordinate

difference between grid & intertie ID?

would this hold multiple?

not sure this makes sense for a grid

This might change over time

There isn't much of the EIA/PCE data in here--generation, sources, sales, customers.

plant_movers	
id	integer
plant_id	integer
mover_id	integer

prime_movers	
id	integer
abbreviation	varchar
description	varchar

plant_fuels	
id	integer
plant_id	integer
fuel_id	integer

integer
varchar
varchar
double
double

integer
varchar
varchar
double
double

plants	
id	integer
name	varchar
interried	bool
akeps_region_id	integer
plant_id_eia	integer
plant_name_eia	varchar
grid_id	integer
utility_id_eia	integer
mover_id	integer
plant_fuel_id	integer
geometry	Point

grids	
id	integer
name	varchar

this might change over time

would this allow multiple fuels/plant? i'd suggest putting this to prime movers. and they'll have multiple fuels per prime movers

This will likely be complicated. Some utilities w/ multiple grids

interties	
id	integer
grid_id	integer
intertie_name	varchar
intertie_id	varchar
intertie_month	integer
intertie_year	varchar
data_source	varchar
community_name	varchar
operator_name	varchar
gnis	integer
latitude	double
longitude	double
aea_energy_region_id	integer
calendar	datetime

PCE communities might be a single or multiple communities under one reporting line item

electric_utilities	
id	integer
label	varchar
cpcn_certificate_number	integer
cpcn_certificate_name	varchar
regulatory_status_id	integer
certificate	bool
ownership_type_id	integer
utility_id_eia	integer
utility_name_eia	varchar
utility_id_pce	integer
utility_name_pce	varchar
grid_id	integer
is_ipp	bool

communities_pce	
id	integer
community_fips_code	varchar
pce_community_code	integer
pce_community_name	varchar
pce_operator_name	varchar
utility_id	integer
interconnected	bool

communities	
id	integer
fips_code	varchar
name	varchar
regional_corporation_fips_code	integer
borough_fips_code	integer
grid_id	integer
onsi_code	varchar
dcra_code	varchar
latitude	double
longitude	double
pce_eligible	bool
pce_active	bool
geometry	geometry
village_corp_id	integer

electric_service_areas	
id	integer
community_fips_code	varchar
utility_id	integer
geometry	MultiPolygon

this won't always be clearcut--For instance, MEA & CEA both serve Eagle River

Not sure if this is to capture generating or sales? For instance, IPPs aren't utilities

Unnecessary. Captured in ownership type


village_corporations	
id	integer
community_fips_code	varchar
label	varchar
geometry	Point


legislative_community	
id	integer
community_fips_code	varchar
house_district	integer
senate_district	char
election_region	integer

regional_corporations	
id	integer
name	varchar
fips_code	varchar
arealand	integer
areawater	integer
geometry	Polygon


boroughs	
id	integer
name	varchar
fips_code	varchar
is_census_area	bool
geometry	Polygon

This has not been constant--Wade-Hampton Census Area changed name

house_districts	
id	
house_district	
geometry	
updated	

senate_districts	
id	
senate_district	
geometry	
updated	

utility_regulatory_statuses	
id	integer
name	varchar

utility_ownership_types	
id 	integer
name	varchar

I assume this is the DCRA heating fuel reports?

fuel_price_reports	
id	integer
community_fips_code	varchar
all_the_data	double

is there a table for sales?

dol_places	
id	integer
community_fips_code	varchar
white	double
black	double
native	double
asian	double
pacisland	double
other	double
two_plus	double
hispanic	double
natalncomb	double
grpqtrs	double
houseunits	double
vacant	double
occupied	double

schools	
id	integer
community_fips_code	varchar
school_district	varchar
enrollment	integer
enrollment_year	year

taxes	
id	integer
community_fips_code	varchar
property_tax	double
sales_tax	double
other_tax	double
total_tax	double
tax_per_capita	double
tax_year	year

populations	
id	integer
fips_code	integer
total_population	integer

communities	
id	integer
fips_code	varchar
name	varchar
regional_corporation_fips_code	integer
borough_fips_code	integer
grid_id	integer
ansi_code	varchar
dcra_code	varchar
latitude	double
longitude	double
pce_eligible	bool
pce_active	bool
geometry	geometry
village_corp_id	integer

transportation	
id	integer
community_fips_code	varchar
airport	bool
harbordock	bool
stateferry	bool
cargobarge	bool
roadconnection	bool
coastal	bool
road_or_ferry	bool
description	varchar

I'd suggest starting with monthly generation and do this as a calc. And it should be done by source/prime mover

yearly_generation	
id	integer
grid_id	integer
net_generation_mwh	integer
fuel_type	varchar
year	integer

capacity	
id	integer
grid_id	integer
capacity_mw	double
fuel_type	varchar
year	integer

This might change over time

communities_pce	
id	integer
community_fips_code	varchar
pce_community_code	integer
pce_community_name	varchar
pce_operator_name	varchar
utility_id	integer
interconnected	bool

this might change over time

I'd suggest using the EIA format for this and that it should be connected to the

employment	
id	integer
community_fips_code	varchar
residents_employed	integer
unemployment_claimants	integer
measurement_year	year

population_ages	
id	integer
community_fips_code	varchar
e_pop_age_total	integer
m_pop_age_total	double
e_pop_age_under_5	integer
all_the_data	double